OPERATION

Before Use

⚠ WARNING

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

Operation Overview

1 Sort laundry and load the washer.

- Sort laundry by fabric type, soil level, color and load size as needed. Open the door and load items into the washer.
- If using single-use detergent packs, or gel or tablet detergents, place them in the drum before loading the laundry.

2 Add cleaning products.

- Add the proper amount of HE (High-Efficiency) detergent to the detergent dispenser.
- If desired, add bleach or fabric softener to the appropriate areas of the dispenser drawer.
- Do not place liquid or powdered detergent packs, or gel or tablet detergents in the dispenser.

3 Turn on the washer.

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

4 Select a cycle.

- Turn the cycle selector knob or press the cycle buttons repeatedly until the desired cycle is selected.
- The preset wash temperature, spin speed, soil level and option settings for the selected cycle are shown.
- The **Normal** cycle must be selected in order to change its default settings.
- Pressing the **Start/Pause** button without selecting a cycle immediately starts the **Normal** cycle with the default settings.

5 Adjust settings.

- Default settings for the selected cycle can be changed, if desired, using the cycle modifier and option buttons.
- Not all modifiers and options are available on all cycles. A different chime sounds and the LED does not light up if the selection is not allowed.

6 Begin cycle.

- Press the **Start/Pause** button to begin the cycle. The door locks, and the washer agitates briefly without water to measure the weight of the load.
- If the **Start/Pause** button is not pressed within a certain time, the washer shuts off and all settings are lost.

7 End of cycle.

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

NOTE

- The washer rotates the laundry in a way that allows it to use less water while still fully saturating the clothing. It is normal to be unable 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.

Sorting Laundry

⚠ CAUTION

- Clothing or articles that are waterproof or water-resistant must be washed in the **Waterproof**, **Bedding**, **Bulky/Large**, or **Jumbo Wash** cycle only. (Examples include water resistant clothing, mattress covers, outdoor clothes, and plastic mats.) Failure to do so may result in personal injury or damage to the washer, clothes, walls, floor, and surrounding objects due to abnormal vibration.
- Remove the stuffing from pillows and cushions before washing the covers. Failure to do so can cause excessive vibration, resulting in damage to the washer, clothes, nearby objects, walls, and floor.

Grouping Similar Items

For the best washing results, and to reduce the possibility of damage to clothing, sort clothing into loads made up of similar items.

Mixing different fabric types and/or soil levels can result in poor wash performance, color transfer, discoloration, fabric damage or linting. Fabrics should be sorted into groups as described below.

Colors

Sort articles by color. Wash dark clothes separately from light colors or whites. Mixing dark clothes with light clothes can result in dye transfer or discoloration of the lighter clothes.

Soil Level

Wash heavily soiled clothing together. Washing lightly soiled clothing in the same load with heavily soiled clothing could result in poor wash performance for the lightly soiled clothing.

Fabric Type

Delicate articles should not be mixed with heavy or sturdy fabric types. Washing heavy fabrics with delicates can result in poor wash performance for the heavy fabrics and possible damage to the delicates.

Lint Type

Some fabrics attract and bind lint to them while others give off lint in the laundry process. Avoid mixing these lint collectors and lint producers in the same load. Mixing these fabrics will result in pilling and linting on the lint collectors. (For example, lint collector - knit sweater; lint producer - terry cloth towels.)

How to Sort Laundry

By Colors	By Soil	By Fabric	By Lint
White	Heavy	Delicates	Lint Producer

By Colors	By Soil	By Fabric	By Lint
Lights	Normal	Easy Care	Lint Collector
Darks	Light	Sturdy	

Fabric Care Labels

Many articles of clothing include a fabric care label. Using the chart below, adjust the cycle and option selections to care for your clothing according to the manufacturer's recommendations.

Category	Label	Directions
Washing		Hand wash
		Machine wash, Normal cycle
		Perm Press/Wrinkle Resistant setting (which has a cool down or cold spray before the slower spin)
		Gentle/Delicate setting (slow agitation and/or reduced wash time)
		Do not wash
		Do not wring
Water Temperature	•••	Hot
	••	Warm
	•	Cold/Cool
Bleach Symbols	△	Any bleach (when needed)
		Only non-chlorine bleach (when needed)
		Do not bleach

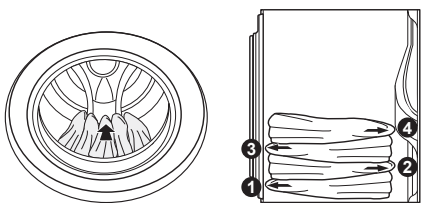
Loading the Washer

⚠ CAUTION

- Clothing or articles that are waterproof or water-resistant must be washed in the **Waterproof**, **Bedding**, **Bulky/Large**, or **Jumbo Wash** cycle only. (Examples include water resistant clothing, mattress covers, outdoor clothes, and plastic mats.) Failure to do so may result in personal injury or damage to the washer, clothes, walls, floor, and surrounding objects due to abnormal vibration.

General Tips

- Check and empty pockets. Paper clips, coins, matches, and other items can damage clothing and the washer.
- Close zippers and hooks, and tie drawstrings to prevent snagging or tangling of clothes.
- Pretreat heavily stained areas for best results.
- Brush off heavy soil, dust, and hair from items before washing. Excess dirt or sand can abrade other fabrics and lead to poor wash performance.
- For best performance, load clothes as shown.



- Do not press down on items while stacking them in the drum.
- Load clothes loosely, and do not overfill the drum. Clothes need room to circulate in order to get clean.

- Combine large and small items in the drum. Load large items first. Large items should not be more than half of the total load.
- The washer can be fully loaded, but the drum should not be tightly packed with items. The door of the washer must close easily.
- The washer will not fill or operate with the door open.

Bulky Items

- Wash thick, bulky items individually. Heavy blankets, comforters, bedspreads, or pet beds can get tangled or cause an unbalanced load if combined with other items.

Small Items

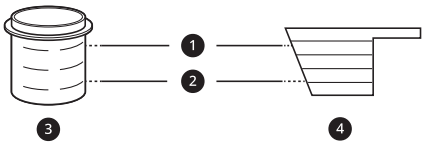
- Do not wash a single small item. Add enough similar items to the load to prevent an out-of-balance load.
- Wash small, light items in a mesh bag. Small items can get caught in the impeller at the bottom of the drum, and brassiere hooks can snag on other clothing or the drum.

Adding Cleaning Products

About Detergent Use

This washer is designed for use with only HE (High-Efficiency) detergents.

- HE detergents produce fewer suds, dissolve more efficiently to improve washing and rinsing performance, and help to keep the interior of the washer clean. Using detergent that is not HE may cause oversudsing and unsatisfactory performance which could result in error codes, cycle failure, and washer damage.
- Detergents designated as HE-compatible may not provide optimal results.
- For proper wash performance, always measure detergent using the measuring device provided by the detergent manufacturer. For an average load, use less than half of the recommended maximum. Use less detergent for soft water, light soil, or smaller loads.
- Use extra care when measuring 2X and 3X concentrated detergents because even a small amount of extra detergent can lead to problems.
- Never use more than the maximum amount of detergent recommended by the manufacturer. Using too much detergent can lead to oversudsing, poor rinsing, detergent buildup in clothing, and residue buildup that can contribute to odors in the washer.
- Do not use more than one single-use detergent pack in the washer. Using too much detergent may cause oversudsing and unsatisfactory performance. Reduce detergent amount or add an extra rinse if detergent residue is left on fabrics. To add an extra rinse, select the **Extra Rinse** option.



1. Maximum fill line
2. Average load fill line
3. Liquid detergent
4. Powdered detergent

Single-Use Detergent Packs / Gel or Tablet Detergents

Place liquid or powdered detergent packs, or gel or tablet detergents in the drum before loading laundry. Do not place these detergents in the dispenser.

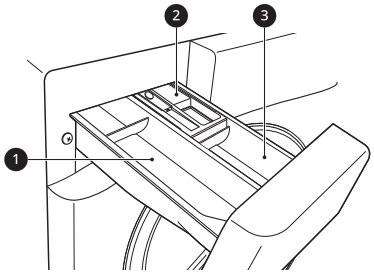
Using the Dispenser

To add cleaning products to the automatic dispenser:

1 Open the dispenser drawer.

2 Load the laundry products into the appropriate compartments.

- Follow the manufacturer's recommendations when adding cleaning products.



❶ Main wash detergent compartment

❷ Liquid fabric softener compartment

❸ Pre-wash detergent compartment

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

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

⚠ CAUTION

- Do not place or store laundry products, such as detergent, bleach, or liquid fabric softener, on top of your washer. These products can damage the washer's finish and controls.

Main Wash Detergent Compartment

This compartment holds laundry detergent for the main wash cycle. Either powdered or liquid detergent may be used in this compartment.

- The detergent is added to the load at the beginning of the cycle. Always use HE (High-Efficiency) detergent with your washer.
- Do not exceed the maximum fill line. Using too much detergent can result in detergent buildup in clothing and the washer.
- Liquid or powdered color-safe bleach may be added to the main wash compartment with detergent of the same type. Do not mix liquids and powders
- If the dispenser has a liquid detergent cup and insert:
  - Make sure they are in place when using liquid detergent.
  - Make sure to remove them when using powdered detergent. Powdered detergent will not dispense with the liquid detergent cup and insert in place.
- When using powdered detergent, remove the insert and liquid detergent cup from the dispenser. Powdered detergent will not dispense with the liquid detergent cup and insert in place.
- If you use a detergent that does not dissolve easily or a detergent with high viscosity, it will leave a residue and clog the dispenser.

Fabric Softener Compartment

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

- Do not exceed the maximum fill line. Using too much fabric softener may stain clothes or cause buildup on fabrics or in the washer.
- Dilute concentrated fabric softeners with warm water.
- Never pour fabric softener directly onto the load or into the drum.

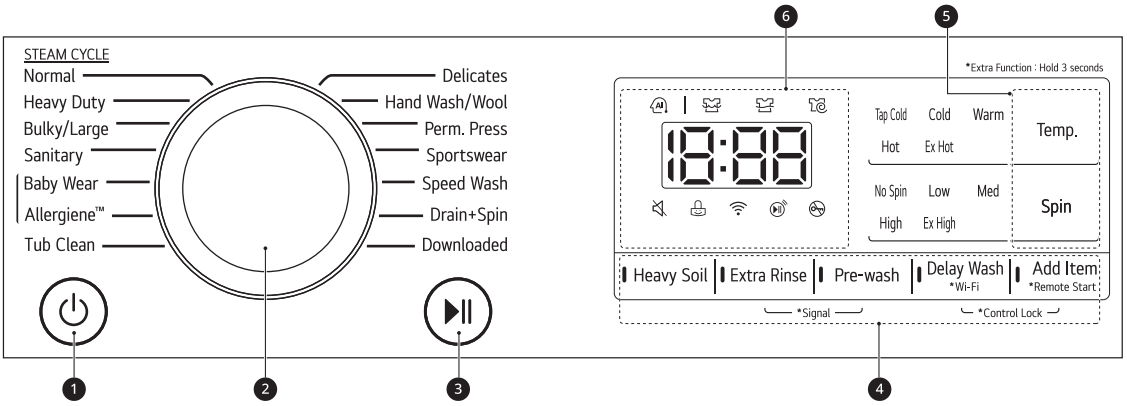
Pre-wash Detergent Compartment

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

- When using the **Pre-wash** option, liquid detergent for the main wash needs to be loaded in the liquid detergent cup accessory in the main wash dispenser (where applicable), to prevent it from being dispensed with the pre-wash detergent.
- 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.

Control Panel

Control Panel Features



❶ Power On/Off Button

- Press this button to turn the washer on or off.
- Pressing this button during a cycle will cancel that cycle and any load settings will be lost.
- The door will unlock after a brief pause.

NOTE

- If there is any water remaining in the drum after the washer shuts off, it will drain after a delay. The washer can be restarted at any time before the drain begins. However, once the water begins to drain, all functions will be suspended until the water has been completely drained and the washer shuts off.

❷ Cycle Selector Knob

- Turn this knob to select the desired cycle.
- Once the desired cycle has been selected, the standard presets will appear in the display. These settings can be adjusted using the **Cycle Modifier buttons** at any time before starting the cycle.

❸ Start/Pause Button

- Press this button to start the selected cycle.
- If the washer is running, use this button to pause the cycle without losing the current settings.

NOTE

- If the **Start/Pause** button is not pressed to start the selected cycle, after a delay the washer automatically turns off and all cycle settings are lost. Any water remaining in the drum will be drained.

❹ Option and Extra Function Buttons

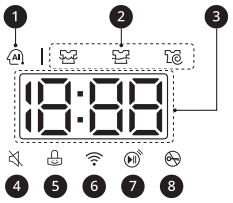
- These buttons allow you to select additional cycle options. Certain buttons also allow you to activate special functions by pressing and holding the button for **3 seconds**.

❺ Cycle Modifier Buttons

- Use these buttons to adjust the wash temperature, spin speed and soil level settings for the selected cycle.
- The current settings are shown in the display.
- Press the button for that option to select other settings.

❻ Time and Status Display

Time and Status Display



❶ AI DD Indicator

- **AI DD** provides the appropriate drum rotation actions after load sensing is completed.
- This indicator lights up when the **Normal** cycle is selected and operated.

❷ Cycle Status Indicators

- These LEDs will blink when a cycle is selected to indicate which stages will run.
- When a cycle is running, the LED for the active stage will blink, and the LEDs for the remaining stages will remain steady. Once a stage is complete, the LED will turn off. If a cycle is paused, the active stage LED will stop blinking.

❸ Estimated Time Remaining

- When a cycle is selected, the default time for that cycle is displayed. This time will change as modifiers or options are selected.
- If the display shows `-: --`, then the time will be displayed after the load sensing has detected the load size.
- The time shown is only an estimate. This time is based on normal operating conditions. Several external factors (load size, room temperature, incoming water temperature, etc.) can affect the actual time.

NOTE

- Once the **Start/Pause** button is pressed, the washer will measure the size of the load. The estimated time may change once the load size has been measured.
- If the **Delay Wash** function is set, the remaining delay time counts down until the cycle begins.

❹ Signal Indicator

- This indicator lights up when the signal is turned off.

❺ Control Lock Indicator

- This indicator lights up when the control panel is locked.
- `CL` and the remaining wash time are displayed, in turn, on the time remaining display.
- When this function is set, all controls are disabled except for the **Power** button.

❻ Wi-Fi Indicator

- This indicator is lit when the product is connected to a home Wi-Fi network.

❼ Remote Start Indicator

- This indicator lights up when the **Remote Start** feature is activated.

❽ Door Lock Indicator

- This indicator lights up when the cycle starts and the door is locked.
- The indicator light stays on until the cycle is paused, stopped or has finished.

Wash Cycles

The wash cycles are designed for specific types of wash loads. Select the cycle that best matches the load contents for maximum wash performance and fabric care. See **Sorting Laundry** section for best results, and follow the fabric care labels on your garments. For a guide to fabric care symbols, see **Sorting Laundry** section.

Cycle Guide

Turn the knob or press the button to select the desired cycle. When you select a wash cycle, the light for the corresponding wash cycle will turn on.

NOTE

- Whenever load weights are mentioned, assume **1 lb (0.45 kg)** = 1 thick bath towel (dry).

Cycle	Normal	
Description	Use to wash all normal items such as cotton, linen, shirts, jeans or mixed loads, except delicate fabrics such as wool or silk. • Pressing the **Start/Pause** button without selecting a cycle will cause the **Normal** cycle to begin immediately, using the default settings.	
Wash Temp.	Default: **Warm**	Available: All
Spin Speed	Default: **High**	Available: All

Cycle	Heavy Duty	
Description	Suitable for washing heavily soiled laundry, such as cotton fabrics, using more powerful wash motions. • When washing large loads, there will be brief periods of **2 minutes** or more without agitation. These soak periods are part of the cycle's design, and are normal.	
Wash Temp.	Default: **Warm**	Available: **Ex Hot**, **Hot**, **Warm**
Spin Speed	Default: **High**	Available: All

Cycle	Bulky/Large	
Description	Suitable for washing blankets or bulky items which have difficulty absorbing water, such as pillows, blankets, comforters, sheets or pet bedding. • Do not use this cycle to wash a mixed load of bedding and non-bedding items. • Do not mix large/bulky items with smaller articles of clothing. • Do not wash excessively large items. If large/bulky items do not fit easily into the drum, there may not be enough room for them to move during washing.	
Wash Temp.	Default: **Tap Cold**	Available: **Hot**, **Warm**, **Cold**, **Tap Cold**
Spin Speed	Default: **High**	Available: **High**, **Med**, **Low**, **No Spin**

Cycle	Sanitary	
Description	This cycle reduces bacteria on laundry when used in conjunction with bleach, without high energy consumption.	
Wash Temp.	Default: **Ex Hot**	Available: **Ex Hot**

Cycle	Sanitary	
Spin Speed	Default: **High**	Available: **High**, **Med**, **Low**, **No Spin**

Cycle	Baby Wear	
Description	This cycle helps wash food stains from baby clothes using a powerful rinse.	
Wash Temp.	Default: **Ex Hot**	Available: **Ex Hot**
Spin Speed	Default: **High**	Available: **High**, **Med**, **Low**, **No Spin**

Cycle	Allergiene™	
Description	This cycle is a powerful, high-temperature cycle designed specifically to reduce certain allergens. **NOTE** • Selecting this cycle automatically incorporates steam into the wash cycle. • This cycle can significantly reduce allergens in bedding and clothing. • This cycle helps reduce dust mite populations and helps reduce allergens. Due to the higher energy and temperatures used, this cycle is not recommended for wool, silk, leather, or any other delicate or temperature sensitive items.	
Wash Temp.	Default: **Ex Hot**	Available: **Ex Hot**
Spin Speed	Default: **Ex High**	Available: All

Cycle	Tub Clean
Description	This is a special cycle designed to clean the inside of the washer.

Cycle	Delicates	
Description	Suitable for washing dress shirts/blouses, nylons, lingerie, or sheer and lacy clothes which can easily be damaged.	
Wash Temp.	Default: **Cold**	Available: **Hot**, **Warm**, **Cold**, **Tap Cold**
Spin Speed	Default: **Med**	Available: **Med**, **Low**, **No Spin**

Cycle	Hand Wash/Wool	
Description	This cycle is for washing shrinkable woolen or hand-washable items requiring delicate care. Only wash woolen items that are labeled machine washable or hand-washable. • Laundry weight should be less than **8 pounds (3.6 kg)** to prevent damage to the fabric. • Use only natural or wool-safe detergent and load 1/2 of the normal amount of detergent. • This cycle uses a gentle tumble rotation angle and low-speed spin for the ultimate fabric care.	
Wash Temp.	Default: **Warm**	Available: **Hot**, **Warm**, **Cold**, **Tap Cold**
Spin Speed	Default: **Med**	Available: **Med**, **Low**, **No Spin**

Cycle	Perm. Press	
Description	Use this cycle to minimize wrinkles when washing tablecloths or “wrinkle-free” clothes.	
Wash Temp.	Default: **Hot**	Available: All
Spin Speed	Default: **High**	Available: All

Cycle	Sportswear	
Description	Washes special garments like sports and outdoor wear. • Use for water-repellent fabric laminate used on clothing.	
Wash Temp.	Default: **Hot**	Available: **Hot**, **Warm**, **Cold**, **Tap Cold**
Spin Speed	Default: **Med**	Available: **Med**, **Low**, **No Spin**

Cycle	Speed Wash	
Description	Quickly washes lightly soiled clothing and small loads. For high wash and rinse efficiency, wash small loads of 2-3 lightly soiled garments. • Use very little detergent in this cycle. To add an extra rinse, use the **Extra Rinse** option.	
Wash Temp.	Default: **Cold**	Available: **Hot**, **Warm**, **Cold**, **Tap Cold**
Spin Speed	Default: **Med**	Available: All

Cycle	Drain+Spin
Description	This cycle is for draining and spinning without the wash and rinse cycle, or for removing the load from the washing machine in the middle of the cycle. • You can change the spin speed by pressing the **Spin** button repeatedly until the desired speed is selected.

Cycle	Downloaded (Rinse+Spin)	
Description	You can use a smartphone to download a specialized cycle to this cycle position. • The default cycle is **Rinse+Spin**. This cycle is also available for download. • Refer to the **LG ThinQ** application to see the cycles available for download.	
Spin Speed	Default: **Ex High**	Available: All

Available Options

NOTE

- For the **Drain + Spin** cycle, only the **Delay Wash** and **Add Item** options can be selected.
- The **Delay Wash** and **Add Item** options are available for every cycle in this table.

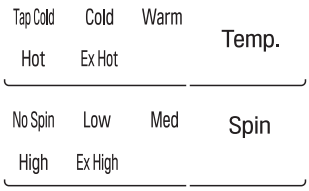
Cycle	Heavy Soil	Extra Rinse	Pre-wash
Normal	●	●	●
Heavy Duty	●	●	●
Bulky/Large	●	●	
Sanitary	●	●	
Baby Wear	●	●	
Allergiene™	●	●	
Delicates	●	●	
Hand Wash/Wool	●	●	
Perm. Press	●	●	●
Sportswear	●	●	
Speed Wash	●	●	●

Cycle Modifiers

About Modifier Buttons

Each cycle has default settings that are selected automatically. You can also customize these settings using the cycle modifier buttons.

- Repeatedly press the button for the desired modifier until the indicator light for the desired setting is lit.
- The washer automatically adjusts the water level for the type and size of wash load for best results and maximum efficiency.
- This is a high-efficiency washer, and the water levels may be much lower than you expect. This is normal, and cleaning/rinsing performance will not be compromised.



NOTE

- The setting lights up when it is selected.
- To protect your garments, not every wash temperature, spin speed, soil level, or option is available with every cycle.
- A chime will sound twice and the LED will not light if the desired setting is not allowed for the selected cycle.
- Follow the fabric care labels on the garment for best results.

Temp.
Make sure the wash temperature is suitable for the type of load you are washing.

- Press the **Temp.** button repeatedly to select the wash and rinse temperature combination for the selected cycle.
- All rinses use unheated cold water.
- Cold rinses use less energy. The actual cold rinse temperature depends on the temperature of the cold water at the faucet.
- Your washer features a heating element to boost the hot water temperature for **Ex Hot** settings. This provides improved wash performance at normal water heater settings.

Spin
Higher spin speeds extract more water from clothes, reducing drying time and saving energy.

- Press the **Spin** button repeatedly until the desired speed is selected.
- Some fabrics, such as delicates, require a slower spin speed.

Options and Extra Functions

Your washer includes several additional cycle options to customize cycles to meet your individual needs.

- Select the desired option after selecting the desired cycle and settings.

NOTE

- The LED for the option will light when the option is selected.
- To protect your garments, not every option is available with every cycle.
- A chime will sound twice and the LED will not light if the selected option is not allowed for the selected cycle.

Using the Pre-wash Option

This option adds a pre-wash (for about **15 - 17 minutes**) for improved cleaning of heavily soiled or stained clothing.

NOTE

- If you select **Pre-wash** after putting the detergent directly in the drum, the detergent may be washed away, reducing the washing performance.

Remote Start

Use a smartphone to control your washer remotely.

- For more information, see **SMART FUNCTIONS** in this manual.

Delay Wash

Once you have selected the cycle and other settings, press the **Delay Wash** button to delay the start of the wash cycle.

- Each press of this button increases the delay time by 1 hour, for up to 19 hours.

- Once the desired delay time is set, press the **Start/Pause** button to start the delay time.

NOTE

- If the **Start/Pause** button is not pressed to begin the delay time, the washer automatically turns off after a certain time and all cycle settings are lost.

Wi-Fi

When the washer is connected to a home Wi-Fi network, the icon on the control panel is lit.

- To connect the washer to the **LG ThinQ** application, press and hold the **Delay Wash** button for 3 seconds.

Add Item

Use this function to add garments or remove foreign objects like coins or keys after the cycle has started.

1. Press the **Add Item** button while the wash cycle is running.
   - The cycle pauses and the door unlocks.
2. Open the door, add garments or remove foreign objects, and close the door.
3. Press the **Start/Pause** button to resume the cycle. The cycle continues automatically.

⚠ WARNING

- Do not attempt to force the door to open when locked. Doing so could result in damage to the appliance, malfunction, or personal injury.

NOTE

- If the water level and temperature are safe, the door lock LED turns off and the door unlocks once the wash movement has stopped.
- If the water level is too high, the door will not unlock, and this function cannot be used.
- If the temperature in the drum is higher than 113 °F (45 °C), a short warning chime sounds and this function is not allowed for safety.
- This function is disabled during the **Tub Clean** cycle.
- To preserve wash performance, wash time may be extended depending on when garments are added to a cycle.
- Be careful when opening the door as wet laundry may drip or fall out.

Extra Rinse

This option adds an extra rinse to the selected cycle. Use this option to help ensure the removal of detergent or bleach residue from fabrics.

- Press the **Extra Rinse** button to add additional rinses to the cycle.

Heavy Soil

Select this option to wash heavily soiled laundry with more power than the standard cycle.

- Press the **Heavy Soil** button to select the option.

Control Lock

Use this function to disable the controls. This function can prevent children from changing cycles or operating this washer.

NOTE

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

Locking/Unlocking the Control Panel

1. Turn on the power.
2. Press and hold the **Delay Wash** and **Add Item** buttons at the same time for 3 seconds to activate/deactivate this function.

- When the function is deactivated, a chime will sound and the remaining time for the current cycle will reappear on the display.

Signal

The washer plays a melody when the wash cycle is finished. The buttons make a sound each time a button is pressed. Use this button to turn the melody and button tones on or off.

- To turn the function on/off, press and hold the **Extra Rinse** and **Pre-wash** buttons at the same time for 3 seconds.

SMART FUNCTIONS

Using LG ThinQ Application

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

LG ThinQ Application Features

The app is compatible with products that contain the wireless LAN module.

- **Remote Start**
  - Control the appliance remotely from the **LG ThinQ** application.
- **Downloaded**
  - Download new and specialized cycles that are not included in the standard cycles on the appliance.
- **Tub Clean Coach**
  - Find out how many cycles remain before it is time to run the **Tub Clean** cycle.
- **Energy Monitoring**
  - Keep track of the washer's power consumption and how it is affected by your selected wash cycles and options.
- **Smart Diagnosis**™
  - This function provides useful information for diagnosing and solving issues with the appliance based on the pattern of use.
- **Push Alerts**
  - When the cycle is complete or the appliance has problems, you will receive a push message.
- **Settings**
  - Set various options on the appliance and in the application.

NOTE

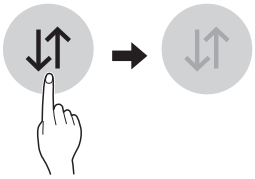
- If you change your wireless router, Internet service provider, or password, delete the connected appliance from the **LG ThinQ** application and connect it again.
- This information is current at the time of publication. The application is subject to change for product improvement purposes without notice to users.

Before Using LG ThinQ Application

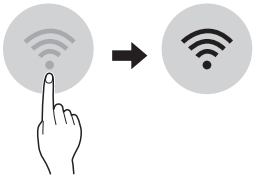
1 Check the distance between the appliance and the wireless router (Wi-Fi network).

- If the appliance is too far from the router, the signal strength becomes weak. It may take a long time to connect or installation may fail.

2 Turn off the **Mobile data** or **Cellular Data** on your smartphone.



3 Connect your smartphone to the wireless router.



NOTE

- To verify the Wi-Fi connection, check that the icon on the control panel is lit.
- The appliance supports 2.4 GHz Wi-Fi networks only. To check your network frequency, contact your Internet service provider or refer to your wireless router manual.
- **LG ThinQ** is not responsible for any network connection problems or any faults, malfunctions, or errors caused by network connection.
- 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.

NOTE

- If the appliance cannot be registered due to problems with the wireless signal transmission, unplug the appliance and wait about a minute before trying again.
- If the firewall on your wireless router is enabled, disable the firewall or add an exception to it.
- The wireless network name (SSID) should be a combination of English letters and numbers. (Do not use special characters.)
- Smartphone user interface (UI) may vary depending on the mobile operating system (OS) and the manufacturer.
- If the security protocol of the router is set to **WEP**, network setup may fail. Change the security protocol (**WPA2** is recommended) and connect the product again.

Installing the LG ThinQ Application

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

Using the Appliance Remotely

Remote Start

Use a smartphone to control your appliance remotely. You can also monitor your cycle operation so you know how much time is left in the cycle.

Using Remote Start

1. Put the laundry in the drum and add detergent to the detergent dispenser drawer.
   - If desired, add bleach or fabric softener to the appropriate areas of the dispenser.
2. Press the **Power** button.
3. Press and hold the **Remote Start** button for 3 seconds to enable the remote control function.
4. Start a cycle from the **LG ThinQ** application on your smartphone.

NOTE

- Once this function is enabled, you can only start a cycle from the **LG ThinQ** smartphone application. If the cycle is not started, the appliance will wait to start the cycle until it is turned off remotely from the application or this function is disabled.
- If the door has been opened, you cannot start a cycle remotely.

Disabling Remote Start Manually

When the function is activated, press and hold the **Remote Start** button for 3 seconds.

Download Cycle

You can download new and specialized cycles that are not included in the standard cycles on the appliance.

Appliances that have been successfully connected can download a variety of specialty cycles specific to the appliance.

Once cycle download is completed in the appliance, the product keeps the downloaded cycle until a new cycle is downloaded.

NOTE

- Only one downloaded cycle can be stored on the appliance at a time.

Wireless LAN Module Specifications

Frequency Range	2412 - 2462 MHz
Output Power (Max)	< 30 dBm

FCC Notice

The following notice covers the transmitter module contained in this product.

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:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment to 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.

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 in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC RF Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This equipment should be installed and operated with a minimum distance of 20 cm (7.8 inches) between the antenna and your body. Users must follow the specific operating instructions for satisfying RF exposure compliance.

Industry Canada Statement

This device contains licence-exempt transmitter(s)/ receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

(1) This device may not cause interference.

(2) This device must accept any interference, including interference that may cause undesired operation of the device.

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 a minimum distance of 20 cm (7.8 inches) between the antenna and your body.

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.

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 a period of three years after our last shipment of this product. This offer is valid to anyone in receipt of this information.

Smart Diagnosis™ Function

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

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

NOTE

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

Using LG ThinQ to Diagnose Issues

If you experience a problem with your Wi-Fi equipped appliance, it can transmit troubleshooting data to a smartphone using the **LG ThinQ** application.

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

Using Audible Diagnosis to Diagnose Issues

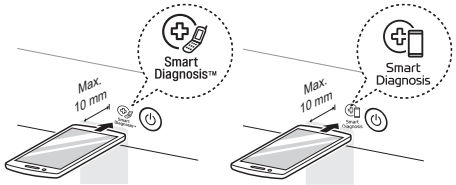
Follow the instructions below to use the audible diagnosis method.

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

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

- Do not press any other buttons.

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



3 Press and hold the **Temp.** button for **3 seconds** or until the audible tones start. Hold the smartphone mouthpiece to the logo until the data transfer is complete.

- Keep the smartphone in place until the data transfer has finished. Time remaining for data transfer is displayed.

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

NOTE

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

MAINTENANCE

⚠ WARNING

- To reduce the risk of fire, electric shock, or injury to persons, read this entire owner's manual, including the **SAFETY INSTRUCTIONS**, before operating this appliance.
- Unplug the appliance before cleaning to avoid the risk of electric shock. Failure to follow this warning can cause serious injury, fire, electric shock, or death.
- Do not use volatile substances (benzene, paint thinner, alcohol, acetone, etc.), abrasive cleaners, or detergents with strong chemical components when cleaning the appliance. Doing so may cause discoloration or damage to the appliance, or may cause a fire.
- Certain internal parts are intentionally not grounded and may present a risk of electric shock only during servicing. Service personnel - Do not contact the following parts while the appliance is energized: pump, valve, motor, control board.

Regular Cleaning

Care after Wash

After the cycle is finished, wipe the door and the inside of the door seal to remove any moisture.

- Wipe the body of the washer with a dry cloth to remove any moisture.
- Leave the door open to dry the drum interior.

⚠ WARNING

- Make sure children and pets do not climb into the drum. Engage the **Control Lock** feature if needed to prevent children from accidentally starting a wash cycle.

Cleaning the Exterior

Proper care of your washer can extend its life.

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

Exterior:

- Immediately wipe off any spills.
- Wipe with a damp cloth.
- Do not touch the surface or the display with sharp objects.

Periodic Maintenance

- Use a towel or soft cloth to wipe around the washer door opening and door glass.
- Always remove items from the washer as soon as the cycle is complete. Leaving damp items in the washer can cause wrinkling, color transfer, and odor.

Cleaning the Drum

Over time, residue may build up in the drum, leading to mildew or a musty odor. Run the **Tub Clean** cycle **monthly** to remove residue and prevent odor.

NOTE

- Make sure to run the **Tub Clean** cycle only when the drum is empty. Never load laundry while using this cycle. The laundry may be damaged or contaminated with cleaning products.
- Run the cycle more often under heavy use conditions or if odor is already present.
- If mildew or musty smell already exists, run this cycle once a week for three consecutive weeks.

1 Remove any clothing from the drum.

2 Add cleaning agents.

Cleaner	Instructions
Drum cleaner	Add to main detergent compartment of detergent dispenser
Lime scale remover	
Liquid chlorine bleach	Add to bleach compartment of detergent dispenser.
Powdered cleaner	Pull out liquid detergent cup before adding to main detergent compartment
Cleaning tablets	Place directly into the washer drum.

- For other drum cleaning products, follow the cleaner manufacturer's instructions and recommendations.

- Do not exceed the maximum fill line when adding bleach or powdered cleaners. Powdered cleaners may remain in the drum after cleaning.

3 Close the door and press the **Power** button.

4 Select the **Tub Clean** cycle and press the **Start/Pause** button to begin the cycle.

5 After the cycle ends, open the door and allow the drum interior to dry completely.

⚠ WARNING

- Make sure children and pets do not climb into the drum. Engage the **Control Lock** feature if needed to prevent children from accidentally starting a wash cycle.

NOTE

- If you use a descaler or drum cleaner during the **Tub Clean** cycle, use the **Rinse+Spin** option to rinse the washer drum before running your next wash cycle.

Automatic Alert for Tub Clean

When the power is on and the tCL message blinks on the display, it means the washer drum needs cleaning. Use the **Tub Clean** cycle to clean the washer drum. The frequency of the automatic alert's appearance depends on how often the washer is used. However, the message will generally appear every one to two months.

Removing Mineral Buildup

In areas with hard water, mineral scale can form on internal components of the washer. Periodically clean the mineral buildup on the internal components to extend the lifespan of the washer. Use of a water softener is recommended in areas with hard water.

- Use a descaler to remove visible mineral buildup on the washer drum.
- After descaling, always run the **Tub Clean** cycle before washing clothing.
- Mineral scale and other spots may be removed from the stainless steel drum using a soft cloth soaked in stainless steel cleaner.
- Do not use steel wool or abrasive cleaners.

Leaving the Door Open

After you finish using the washer, leave the door open overnight to allow air to circulate and dry the drum. This helps prevent odors.

Cleaning the Dispenser Drawer

Leaving detergent in the detergent dispenser drawer for an extended period of time or using the washer for a long period of time may cause the build-up of residue in the detergent dispenser drawer. Remove and clean the detergent dispenser drawer **once or twice a month**.

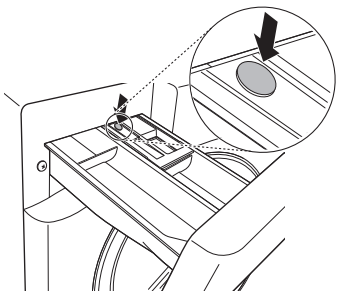
⚠ WARNING

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

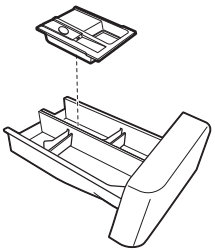
1 Turn off the washer, and unplug the power cord.

2 Pull the drawer straight out until it stops.

3 Press down hard on the disengage button and pull the drawer completely out.



4 Remove the inserts from the drawer.



5 Clean the inserts and drawer with warm water.

- Use a soft cloth or brush to clean and to remove any residue.

- Do not use soap when cleaning the drawer and inserts.

6 Wipe off any moisture with a dry towel or cloth after cleaning.

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

8 Replace the drawer.

Cleaning the Door Seal

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

⚠ CAUTION

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

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 Wipe around the door seal.

- Soak a sponge or a soft cloth in this diluted solution and wipe all around the door seal.

4 Wipe up any moisture with a dry towel or cloth after cleaning.

5 Leave the door open to allow the door seal to dry completely.

Cleaning the Water Inlet Filters

If the washer does not fill properly, an error message will appear on the display. The inlet valve filter screens could be clogged by hard water scale, sediment in the water supply, or other debris.

⚠ WARNING

- The inlet screens protect the delicate parts of the inlet valve from being damaged by particles that could enter the valves with the water supply. Operating the washer with these filters removed could cause a valve to open continuously, resulting in flooding and/or property damage.

⚠ CAUTION

- Do not use the washer without the inlet filters. Doing so will cause leaks and malfunction.
- If you use the washer in an area with hard water, the inlet filter may clog due to lime buildup and require more frequent cleaning.

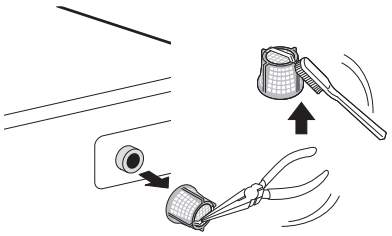
1 Turn off the washer, and unplug the power cord.

2 Turn off hot and cold water faucets.

3 Unscrew the hot and cold water hoses from the back of the washer.

4 Remove the filters from the water valves carefully.

- Use pliers to pull out the filters from the water valves.



5 Remove foreign objects and soak the filters in white vinegar or a lime scale remover.

- If using a lime scale remover, follow the manufacturer's instructions. Be careful not to damage the filters while cleaning them.

6 Rinse filters thoroughly and press them back into place.

7 Flush then reattach the water hoses.

- Before reattaching the water inlet hoses, flush them by running several gallons of water through them into a bucket or drain, preferably with the faucets wide open for maximum flow.

NOTE

- An IE error message may blink on the display when the water pressure is low or an inlet filter is clogged with dirt. Clean the inlet filter.

Cleaning the Drain Pump Filter

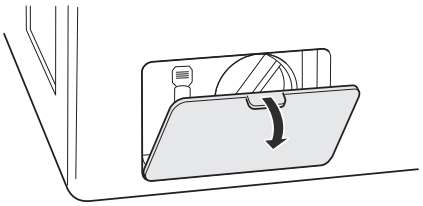
The washer fails to drain if the drain pump filter is clogged. Periodically clean the drain filter to prevent clogging with foreign objects.

⚠ WARNING

- Opening the drain filter will result in water overflowing if there is water in the drum. Use a bucket if the drum is not completely drained before you open the drain filter.
- Using the washer without the drain filter or with an incorrectly assembled drain filter may cause leaks or malfunction of the washer.

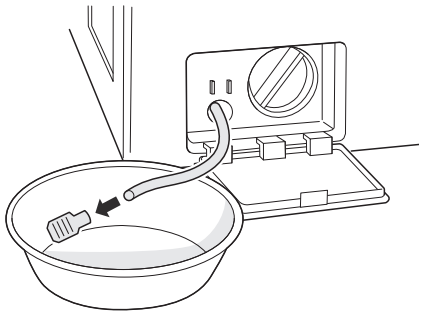
1 Turn off the washer, and unplug the power cord.

2 Open the drain pump filter cover.



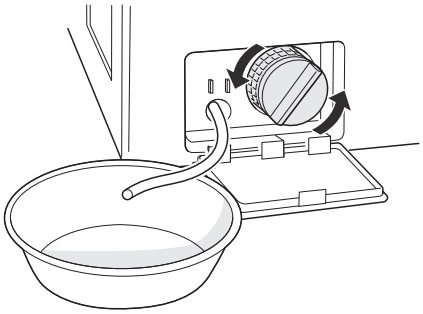
3 Drain any remaining water.

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

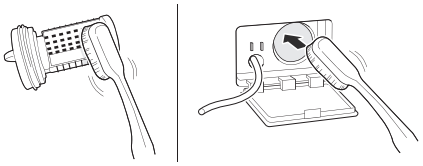


4 Remove the pump filter.

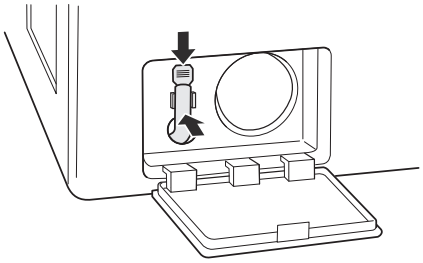
- Twist the pump filter counterclockwise to remove.



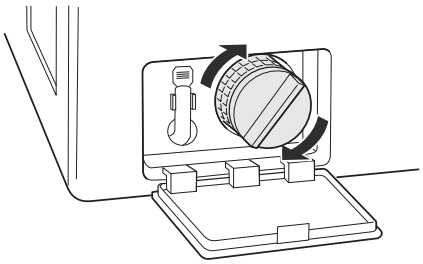
5 Clean the pump filter and opening.



6 Reassemble the plug onto the drain hose and reclip the drain hose.



7 Insert the drain pump filter and twist it clockwise.



8 Close the drain pump filter cover.

NOTE

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

Care in Cold Climates

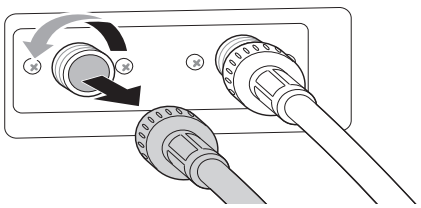
Storing the Washer

If the washer will not be used for an extended period of time and is in an area that could be exposed to freezing temperatures, follow these steps to protect the washer from damage.

NOTE

- Make sure the drum is empty before following these steps.

1. Turn off the washer, and unplug the power cord.
2. Turn off the water faucets.
3. Disconnect the water inlet hoses. Drain any water from the hoses.



4. Plug the power cord into a properly grounded electrical outlet.
5. Add 1 gallon of nontoxic recreational vehicle (RV) antifreeze to the empty drum and close the door.
   - Never use automotive antifreeze.
6. Turn on the washer and press the **Spin** button.
7. Press the **Start/Pause** button to start the drain pump for **1 minute**.
   - This will expel some of the antifreeze, leaving enough to protect the washer from damage.
8. Turn off the washer and unplug the power cord.
9. Dry the drum interior with a soft cloth, and close the door.
10. Store the washer in an upright position.
11. Remove the inserts from the dispenser. Drain any water in the compartments and let them dry.
12. To remove the antifreeze from the washer after storage, run the **Rinse+Spin** cycle using detergent.
    - Do not add laundry to this cycle.

When the Water Inlet Hoses are Frozen

1. Turn off the washer, and unplug the power cord.
2. Turn off the faucets connected to the water inlet hoses.
3. Pour hot water on the frozen faucets to thaw the water inlet hoses and remove the water inlet hoses.
4. Immerse the water inlet hoses in hot water to thaw them.
5. Reconnect the water inlet hoses to the water inlets of the washer and to the faucets.
   - See **Connecting the Water Inlet Hoses** for details.
6. Turn on the faucets.
7. Press the **Power** button to turn on the washer.