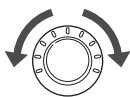
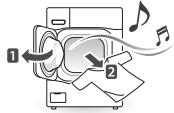


USING YOUR WASHING MACHINE

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 23, Cycle guide, for more detailed default options for each cycle.
 - See page 24, Main cycle, for details on the wash cycles.
 - To change the options, press the option button and select the desired option. See page 25, 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 additions (bleach, softener) into the detergent dispenser drawer.
 - See page 20, Using detergent/fabric softener, for more details on using detergent.
- 5  Press .
 - The washing machine will start.
- 6  When the melody plays, the wash cycle is finished.
 - When the washing cycle is finished, the door will unlock. 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)	BASIC OPTION (★=DEFAULT)			ADDITIONAL OPTIONS					
			Wash Temp.	Spin Speed	Soil Level	Pre-Wash	Extra Rinse	Steam	Cold Wash™	Turbo Wash™	Fresh Care
Tub Clean	This cycle is designed to remove a mildew	89						●			
Allergiene™	Cotton, underwear, pillow covers, bed sheets, baby wear	99 - 132		Extra High★ High★ Medium Low No Spin			●	●		●	●
Sanitary	Heavily soiled underwear, work clothes, diapers, etc.	110 - 120	Extra Hot★	Extra High★ High★ Medium Low No Spin	Heavy Normal★ Light	●	●	●		●	●
Bright Whites™	White Fabrics	66 - 76	Hot★ Warm Cold Tap Cold	Extra High★ High★ Medium Low No Spin	Heavy Normal★ Light	●	●	●		●	●
Bulky/Large	Large items such as blankets and comforters	56	Hot★ Warm★ Cold Tap Cold	Medium★ Low No Spin	Heavy Normal★ Light	●	●	●	●	●	●
Cotton/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	●	●	●	●	●	●
Heavy Duty	Heavy soiled Cotton Fabrics	74 - 131	Hot★ Warm★ Cold Tap Cold	Extra High★ High★ Medium Low	Heavy★ Normal Light	●	●	●	●	●	●
Perm.Press	Dress shirts/pants, wrinkle-free clothing, poly/cotton blend clothing, tablecloths	33 - 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	55 - 65	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★		●		●	●	●
Hand Wash/Wool	Items labeled "hand-washable"	55	Warm★ Cold★ Tap Cold	Low★ No Spin	Normal★ Light				●		●
Drain+Spin	Drain, Spin Only	16		Extra High★ High★ Medium Low No Spin							●

- Cycle time depends on water pressure, type and amount of load and chosen additional options.
- To protect your garments, not every wash/rinse temperature, spin speed, soil level, or option is available with every cycle.
- If the Turbo Wash™ option is selected, you cannot select "No Spin" as your Spin Speed.

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 desired cycle. When you select a wash cycle, the light for the corresponding wash cycle will turn on. See page 22, Basic operation, for more details on operating methods.

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

NSF International (formerly the National Sanitation Foundation), certifies that this wash cycle reduces 99.9% of bacteria on laundry through high temperature, when used with powdered detergent.



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

For white fabrics, Bright Whites™

This cycle is for washing white items only.

Blankets or bulky items, Bulky/Large

This cycle is for washing blankets or bulky items.

Normal items, Cotton/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 Cotton/Normal.

Heavily soiled items, Heavy duty

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

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 loads. 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. For additional rinsing, you can add an extra rinse by using the option button.

Items Labeled Wool or Hand-Washable, Hand Wash/Wool

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.

NOTE

- Laundry weight should be less than 8 pounds (3.6 kg) to prevent damage to the fabric.
- Use only natural or wool-safe detergent harmless to fabrics and load 1/2 of the normal amount of detergent.
- The Hand Wash/Wool cycle uses a gentle tumble rotation angle and low speed spin for the ultimate fabric care.

Drain and spin only, Drain+Spin

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.

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 options before the cycle

You can select and add the desired optional functions before you start the wash cycle.

Setting the water temperature, Wash Temp.

The optimum water temperature is set automatically for each cycle. To change the water temperature setting for a cycle, follow the instructions below. Remember to set the appropriate temperature, as specified in the fabric care labels on your clothing.

- 1 Press  and turn  to the desired cycle.
- 2 Press  repeatedly to select the desired water temperature:
 - When you press the button, an indicator light for the corresponding selection will turn on in the display.
- 3 You can now modify other cycle settings and add options (see page 25-28), or proceed to step 4 to begin the cycle.
- 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 Speed

Higher spin speeds extract more water from clothes, reducing drying time and saving energy. Some fabrics, such as delicates, require a slower spin speed. To protect your clothing, not all spin speeds are available for all cycles. The optimum spin speeds for each cycle have been set automatically. To change the spin speed for a cycle, follow the instructions below.

- 1 Press  and turn  to the desired cycle.
- 2 Press  repeatedly to select the desired spin speed.
 - When you press the button, an indicator light for the corresponding selection will turn on in the display.
- 3 You can now modify other cycle settings and add options (see page 25-28), or proceed to step 4 to begin the cycle.
- 4 Press .

NOTE

- The Spin Speed 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 Speed button repeatedly to select a spin speed. Press the Start/Pause button to begin.

Setting soil level of laundry, Soil Level

You can wash your laundry more thoroughly by setting the proper soil level on the washing machine. The soil level for each cycle has been set automatically. To change the soil level for a cycle, follow the instructions below.

- 1 Press  and turn  to the desired cycle.
- 2 Press  repeatedly to select a soil level.
 - When you press the button, an indicator light for the corresponding selection will turn on in the display.
- 3 You can now modify other cycle settings and add options (see page 25-28), or proceed to step 4 to begin the cycle.
- 4 Press .

NOTE

- Lightly soiled loads may take less time and heavily soiled loads may add time to the cycle.

Adjusting 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 melody and button tones can be changed or they can be turned off if desired.

- 1 Press .
- 2 Turn  to the desired cycle.
- 3 Press . Adjust the melody and button tones as desired.
- 4 You can now modify other cycle settings and add options (see page 25-28), or proceed to step 4 to begin the cycle.
- 5 Press .

Prewashing, Pre Wash

Pre-wash for 16 minutes when clothes are covered in dirt or dust. This feature is suitable for heavily soiled items.

- 1 Press  and turn  to select the desired cycle.
- 2 Press .
 -  light will turn on.
- 3 You can now modify other cycle settings and add options (see page 25-28), or proceed to step 4 to begin the cycle.
- 4 Press .

Rinse, drain and spin only, Rinse+Spin

Use this cycle to rinse detergent from the load.

- 1 Press  and turn  to select the desired cycle.
- 2 Press .
- 3 You can now modify other cycle settings and add options (see page 25-28), or proceed to step 4 to begin the cycle.
- 4 Pulse .

Adding extra rinse cycle, Extra Rinse

You can add an extra rinse cycle to the default rinse cycle.

- 1 Press  and turn  to select the desired cycle.
- 2 Press .
 -  light will turn on.
- 3 You can now modify other cycle settings and add options (see page 25-28), or proceed to step 4 to begin the cycle.
- 4 Press .

Presetting the start time, Delay Wash

You can set the desired start time.

- 1 Press  and turn  to the desired cycle.
- 2 You can now modify other cycle settings and add options (see page 25-28).
- 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 .

High temperature, Steam

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

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

- 1 Press  and turn  to select 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.

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

- 1 Press  and turn  to select 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 10 minutes.
- For high wash efficiency, use this option with less than 8 pounds (3.6 kg) of laundry (approximately 8 thick towels).

Saving time, Turbo Wash™

Adding the TurboWash™ option reduces cycle time and provides good performance in normal cycle.

By using the TurboWash™, We can save the 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.
- Turbo Wash is available in the beginning of the Cotton/Normal, Heavy Duty and Perm. Press cycles.

Setting options during the cycle

You can add desired options during the wash cycle.

Button lock feature, Child Lock

You can 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 three 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 three seconds during the wash cycle.

! NOTE

- Child Lock remains active after the cycle ends. To cancel Child Lock, turn the washer on and then press and hold the PreWash button for three seconds.

Saving customized wash cycle, PGM Save

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

To save cycle

- 1 Press  and turn  to select the desired cycle.
- 2 Modify the cycle settings and add other options (see pages 25-28), if desired.
- 3 Press the Start/Pause button to start the cycle.
- 4 Press and hold  for three seconds during the wash cycle.
 - The cycle with your preferred settings and options is saved.

Selecting your customized cycle, Custom PGM

You can recall the customized wash cycle you had previously saved.

To recall cycle

- 1 Press  after then press .
- 2 Press .

Tumbling 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 select the desired cycle.
- 2 Press and hold  for three seconds during the wash cycle.
 - The light will turn on.
- 3 You can now modify other cycle settings and add options (see page 25-28), or proceed to step 4 to begin the cycle.
- 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 any time.

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 the Power button and turn the cycle selector knob in either direction to select the desired cycle.
- 2 Press the Start/Pause button.
- 3 Press and hold the Extra Rinse button for three seconds during the wash cycle.
 - The drum light will illuminate and then turn off automatically after four minutes.
 - It is normal for clothing and the gasket to appear yellow under the LED light.

Before using the Tag On function

The Tag On function allows you to conveniently use the LG Smart Diagnosis™, Cycle Download, and Laundry Stats features to communicate with your appliance right from your own smart phone.

- 1 Download the LG Smart Laundry&DW App to your smart phone.
- 2 Turn on the NFC (Near Field Communication) function in your smart phone.

The Tag On function can be used with most smart phones equipped with the NFC function and based on the Android operating system (OS).

Turning on the NFC function of the smart phone

- 1 Enter the "Settings" menu of the smart phone and select "Share & Connect" under "WIRELESS & NETWORKS".



- 2 Set "NFC" and "Direct Android Beam" to ON and select "NFC".



- 3 Check "Use Read and Write/P2P receive".



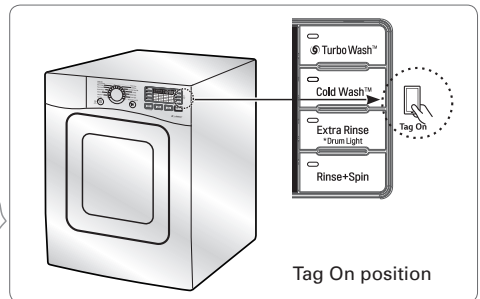
NOTE

- Depending on the smart phone manufacturer and Android OS version, the NFC activation process may differ. Refer to the manual of your smart phone for details.

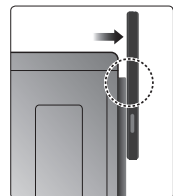
The Tag On icon



Look for the Tag On icon next to the LED screen on the control panel. This is where you position your smart phone when using the Tag On function with the LG Smart Diagnosis™, Cycle Download, and Laundry Stats features of the LG Smart Laundry&DW application.



When you use the Tag On function, position your smart phone so that the NFC antenna on the back of your smart phone matches the position of the Tag On icon on the appliance. If you do not know the position of your NFC antenna, move your smart phone very slightly in a circular motion until the application verifies the connection.



Because of the characteristics of NFC, if the transmission distance is too far, or if there is a metal sticker or a thick case on the phone, transmission will not be good. In some cases, NFC-equipped phones may be unable to transmit successfully.

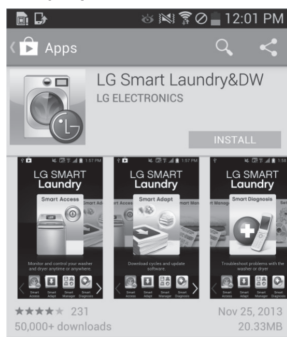
Press [?] in the LG Smart Laundry&DW app for a more detailed guide on how to use the Tag On function.

Tag On

This feature allows you to use LG Smart Diagnosis™, Cycle Download, and Laundry Stats when you touch the LG appliance's Tag On logo with your NFC-equipped smart phone.

Tag On self-diagnosis using LG Smart Laundry&DW application

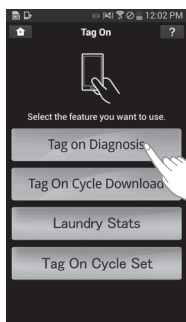
- 1 Install 'LG Smart Laundry&DW' application on a NFC-equipped smartphone.
- Install the application from the Play store and run it.



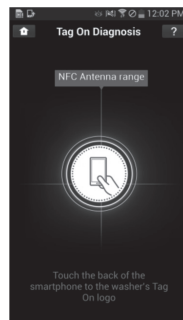
- 2 Select 'Tag On' by using the top icons or the bottom icons



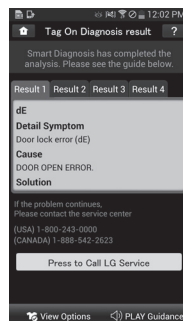
- 3 Select 'Tag On Diagnosis'.



- 4 Touch the Tag On logo.
- When a Tag On screen appears (see at right), tap your smart phone on the Tag On icon on the right side of the washer's control panel.
- If it isn't recognized, touch [?] on the upper right of the Tag On screen on your 'LG Smart Laundry&DW' application to see the detailed guide. (This might happen due to the different NFC antenna positions for each phone.)



- 5 Check the diagnosis results and solutions.
- It shows the diagnosis results on the cycles recently used.

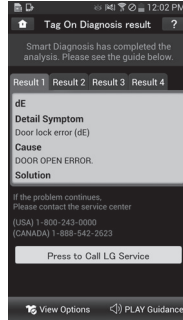


Scan this QR code with your smart phone to quickly access the LG Smart Laundry&DW application for download.

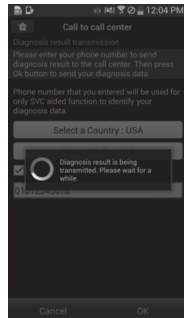
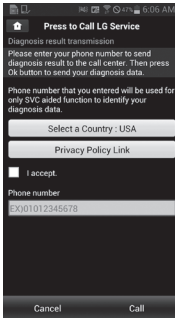
* Images are for reference only. The LG Smart Laundry&DW application may be updated.

Tag On Smart Diagnosis

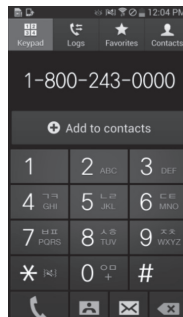
- 1 Select 'Press to Call LG Service' on the Smart Diagnosis Result screen.



- 2 Select your Country.
- 3 Agree to the terms and Conditions of the Use and Privacy Policy by pressing "I accept."
- 4 Enter your phone number in the field. Use this phone number when talking to the LG customer service representative to enable them to find your Smart Diagnosis data.



- 5 Press the Call button to initiate the call to LG's Support Center.



* Images are for reference only. The LG Smart Laundry&DW application may be updated.

Tag On Cycle Download

Tag On Cycle Download allows you to download cycles for later use. The cycle is available at the Download Cycle position on the control panel until another cycle is downloaded.

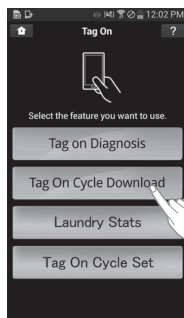
- 1 Install 'LG Smart Laundry&DW' Application on a NFC-equipped smartphone.
 - Install the Application from the Play store and run it.



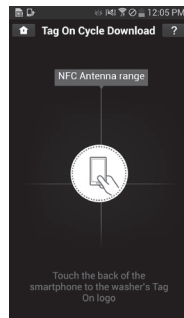
- 2 Select 'Tag On' by using the top icons or the bottom icons.



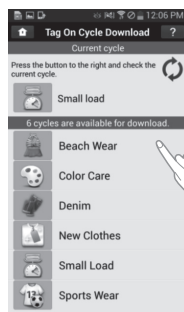
- 3 Select 'Tag On Cycle Download'.



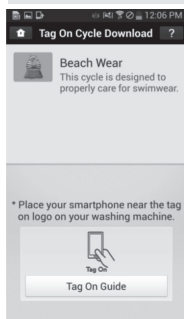
- 4 Touch the Tag On logo.
 - When a Tag On screen appears (see at right), tap your smart phone on the Tag On icon on the right side of the washer's control panel.
 - If it isn't recognized, touch [?] on the upper right of the Tag On screen on your 'LG Smart Laundry&DW' app to see the detailed guide. (This might happen due to the different NFC antenna positions for each phone.)



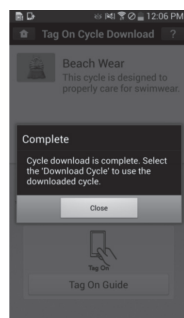
- 5 Select a cycle to download.
 - You can also check the existing cycles already downloaded.



- 6 Touch the Tag On logo.
 - When a Tag On screen appears (see at right), tap your smart phone on the Tag On icon on the right side of the washer's control panel.
 - If it isn't recognized, touch [?] on the upper right of the Tag On screen on your 'LG Smart Laundry&DW' app to see the detailed guide. (This might happen due to the different NFC antenna positions for each phone.)



- 7 The new cycle is downloaded successfully!
 - Check whether the new cycle is downloaded by turning the cycle selector knob to Download Cycle.



* Images are for reference only. The LG Smart Laundry&DW application may be updated.

Laundry Stats

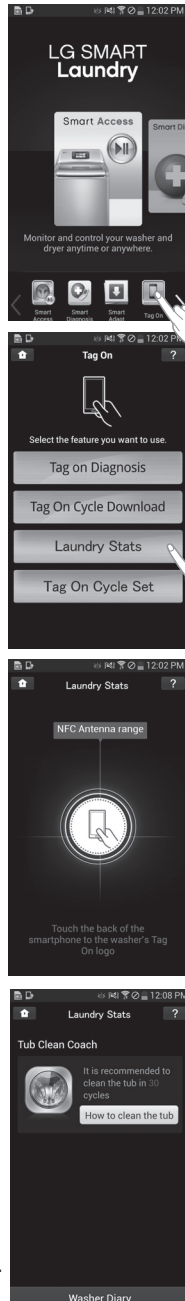
Laundry Stats can tell you when the next Tub Clean cycle is needed for your washer and also tell you details of your last 10 cycles.

- 1 Select 'Tag On' by using the top icons or the bottom icons.

- 2 Select 'Laundry Stats'.

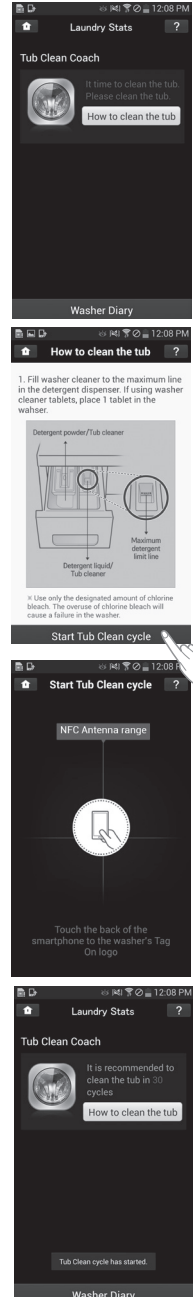
- 3 When the Tag On screen appears (see at right), tap your smart phone to the Tag On logo on the right side of the washer's control panel.
- If the app does not recognize the appliance's Tag On logo, touch the [?] in the upper right corner of your smart phone's screen to see the detailed guide. (This might happen due to the different NFC antenna positions for each phone.)

* Images are for reference only. The LG Smart Laundry&DW application may be updated.



Laundry Stats - Tub Clean

- 1 Select 'How to clean the tub' in the Laundry Stats screen.
- 2 Follow the instructions on the phone to see how to prepare the machine for Tub Clean.
- 3 Select 'Start Tub Clean cycle' at the bottom of the screen.
- 4 When the Tag On screen appears (as below), tap your smart phone to the Tag On logo on the right side of the washer's control panel.
- 5 Verify that the Tub Clean cycle has begun.

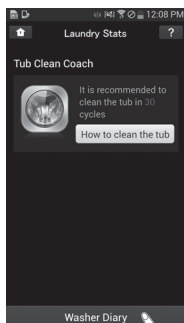


* Images are for reference only. The LG Smart Laundry&DW application may be updated.

Laundry Stats - Washer Diary

- 1 Select "Washer Diary" at the bottom of the Laundry Stats screen.

- The Washer Diary displays a chart showing the last ten cycles used.
- Details of the Most Used cycle and the Most Recent cycle will also be displayed.



- 2 Select the "Run Cycle Again"

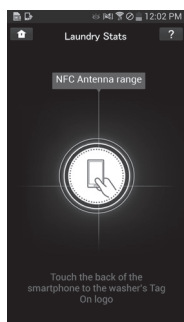
- The Most Used cycle or Most Recent cycle can be immediately started by selecting the "Run Cycle Again" button.



- 3 Touch the Tag On logo.

- When a Tag On screen appears (see at right), tap your smart phone on the Tag On icon on the right side of the washer's control panel.

- If it isn't recognized, touch [?] on the upper right of the Tag On screen on your 'LG Smart Laundry&DW' application to see the detailed guide. (This might happen due to the different NFC antenna positions for each phone.)



- 4 Check whether washing starts with the selected cycle.

- The screen as shown appears and washing starts immediately on the selected cycle.



* Images are for reference only. The LG Smart Laundry&DW application may be updated.

Tag On Cycle Set

Tag On Cycle Set allows you to automatically adjust the cycle and settings based on your laundry needs.

- 1 Select 'Tag On' by using the top icons or the bottom icons.

- 2 Select 'Tag On Cycle Set'.

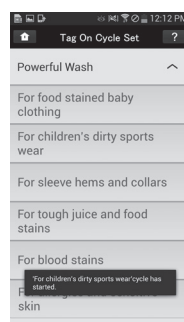
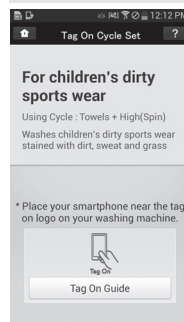
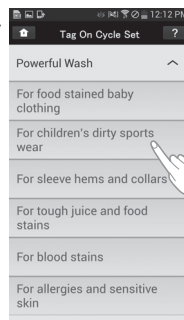
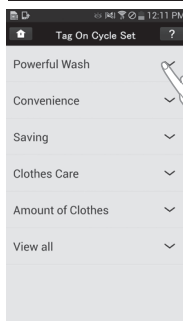
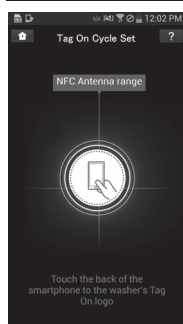
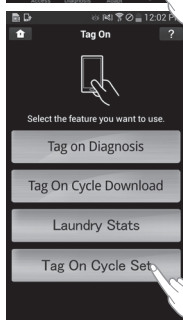
- 3 When the Tag On screen appears (see at right), tap your smart phone to the Tag On logo on the right side of the washer's control panel.
- If the app does not recognize the appliance's Tag On logo, touch the [?] in the upper right corner of your smart phone's screen to see the detailed guide. (This might happen due to the different NFC antenna positions for each phone.)

- 4 Select a laundry category based on the issue you want the machine to focus on.

- 5 After selecting the category, a list of specific cycles will appear. Select the cycle based on your needs.

- 6 When the Tag On screen appears (see at right), tap your smart phone to the Tag On logo on the right side of the washer's control panel.

- 7 After tagging the machine with your phone, the cycle will automatically start. Verify the correct cycle and settings were selected.



* Images are for reference only. The LG Smart Laundry&DW application may be updated.