







# USING YOUR WASHING MACHINE

## Basic Operation

- 1  Load the laundry into the washing machine and close the door.
- 2  The Power button.
  - The lights around the cycle selector knob will illuminate and a chime will sound.
- 3  Turn the cycle selector knob in either direction to select 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 Start/Pause button.
  - 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™	Dry
Tub Clean	This cycle is designed to remove a mildewy	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	Hot Warm* Cold Tap Cold	Extra High High* Medium Low No Spin	Heavy Normal* Light	●	●	●	●	●	●
Heavy Duty	Heavy soiled Cotton Fabrics	74~131	Hot Warm* Cold Tap Cold	Extra High* High Medium Low No Spin	Heavy* Normal Light	●	●	●	●	●	●
Perm. Press	Dress shirts/pants, wrinkle-free clothing, poly/cotton blend clothing, ablecloths	33~47	Hot Warm* Cold Tap Cold	High Medium* Low No Spin	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	●	●		●	●	●
Hand Wash/ Wool	Items labeled "hand-washable"	55	Warm* Cold Tap Cold	Low* No Spin	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*		●		●	●	●
Small Load	Normally soiled and small loads.	45	Hot Warm* Cold Tap Cold	Extra High High* Medium Low No Spin	Heavy Normal* Light	●	●		●		●
Drain+Spin	Drain, Spin Only	11		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 on, you cannot select "No Spin" as your Spin Speed.  
(If the Turbo Wash™ option is off, you can 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 cycle selector knob in either direction to select 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 or non-colorfast items.

### Reduce laundry bacteria, Sanitary

This wash cycle helps to remove heavily soiled on laundry through high temperature.



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

This wash cycle reduces 99.9% of bacteria on laundry through high temperature, when used with powdered detergent.

### 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.

### Heavy soiled items, Heavy Duty

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

### Normal items, Cotton/Normal

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

#### ! NOTE

- If you press the Power button and the the Start/ Pause button without selecting another cycle, the washing machine defaults to the Cotton/ Normal cycle.

### For towels, Towels

This cycle is for washing towels.

### Wrinkle-free items, Perm. Press

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

### 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 pound (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.

### Sheer items, Delicates

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

### Quick wash, Speed Wash

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

#### ! NOTE

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

### For a few items, Small Load

This cycle is for normally soiled and small loads.

### 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 washing machine.

### Setting the water temperature, Wash Temp.

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

- Press the Power button and turn the cycle selector knob in either direction to select the desired cycle.
- Press the Wash Temp button 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.
- You can now modify other cycle settings and add options (see pages 25-28), or proceed to step 4 to begin the cycle.
- Press the Start/Pause button.

### 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

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

- Press the Power button and turn the cycle selector knob in either direction to select the desired cycle.
- Press the Spin Speed button 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.
- You can now modify other cycle settings and add options (see pages 25-28), or proceed to step 4 to begin the cycle.
- Press the Start/Pause button.

### 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.

## Setting soil level of laundry, Soil Level

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

- Press the Power button and turn the cycle selector knob in either direction to select the desired cycle.
- Press the Soil Level button repeatedly to select a soil level.
  - When you press the button, an indicator light for the corresponding selection will turn on in the display.
- You can now modify other cycle settings and add options (see pages 25-28), or proceed to step 4 to begin the cycle.
- Press the Start/Pause button.

### NOTE

- This feature will add time for heavily soiled loads or subtract time for lightly soiled loads.

## Set the drying time, Dry

Dry

Drying options are easily selected with the DRY button. For the most even drying, make sure all articles in the clothes load are similar in material and thickness. Do not overload the washer by placing too many articles into the drum. Items must be able to tumble freely. If you open the door and remove the load before the washer has finished the DRY cycle, remember to press the START/ PAUSE button.

By pressing the DRY button, you can select:

- 1 LOW TEMP - For delicate fabrics
- 2 DAMP - For damp drying fabrics
- 3 NORMAL - For general drying
- 4 MORE - For heavier fabrics
- 5 30/60/90/120 - For timed drying

### NOTE

- The capacity of the machine for washing clothes is twice as much as when drying clothes. If the machine is to be used to dry a load, then the wash load must be reduced by half for effective drying performance. If a full load is washed, remove half the clothes prior to starting the dry cycle.

### Drying Guide—Automatic Dry

Electronic sensors measure the temperature of the exhaust to increase or decrease the drying temperature for faster reaction time and tighter temperature control. Recommended DRY settings by fabric type:

- a) Perm Press – LOW TEMP
- b) If clothes are to be ironed – DAMP
- c) Cotton/Towels – NORMAL
- d) Diapers – MORE

### NOTE

- On Automatic Dry settings, the estimated drying time may vary from the actual drying time. The type of fabric, size of the load, and the selected dryness level affect drying time.

### Drying Guide—Timed Dry

- Press the Dry button repeatedly to select the drying time in 30 minute increments: 30–60–90–120 minutes.
- Timed dry can last up to 120 min. When selecting Dry only, drying will start after the final Spin cycle.
- Drying times can vary greatly depending on dampness, room temperature, and type of fabric. You may need to add additional time. Your own experience will be your best guide.

## Drying Tips

### Woolen Articles

Do not tumble dry woolen articles. Pull them to their original shape and dry them flat.

### Woven and Loopknit Materials

- Some woven and loopknit materials may shrink when dried.
- Always stretch them out immediately after drying.

### Permanent Press and Synthetics

- Do not overload your dryer.
- Take out permanent press articles as soon as the dryer stops to reduce wrinkles.

### Fiber or Leather Materials

Always check the manufacturer's instructions.

### Baby Clothes and Night Gowns

Always check the manufacturer's instructions.

### Rubber and Plastics

Do not dry any items made from or containing rubber or plastics, such as:

- a) Aprons, bibs, chair covers
- b) Curtains and table cloths
- c) Bathmats

### Fiberglass

Do not dry fiberglass articles in your dryer. Glass particles left in the washer could be picked up by your clothes the next time you use the washer and irritate your skin.

## 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 the Power button and turn the cycle selector knob in either direction to select the desired cycle.
- 2 Press the Pre Wash button.  
- The indicator light will turn on.
- 3 You can now modify other cycle settings and add options (see pages 25-28), or proceed to step 4 to begin the cycle.
- 4 Press the Start/Pause button.

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

Use this cycle to rinse detergent from the load.

- 1 Press the Power button and turn the cycle selector knob in either direction to select the desired cycle.
- 2 Press the Rinse+Spin button.
- 3 Press the Spin Speed button repeatedly to set the spin speed.  
- The indicator light for the selected spin speed will turn on.
- 4 Press the Start/Pause button.

### Adding extra rinse cycle, Extra Rinse

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

- 1 Press the Power button and turn the cycle selector knob in either direction to select the desired cycle.
- 2 Press the Extra Rinse button.
  - The Extra Rinse indicator light will turn on.
- 3 You can now modify other cycle settings and add options (see pages 25-28), or proceed to step 4 to begin the cycle.
- 4 Press the Start/Pause button.

### Presetting the start time, Delay Wash

You can set the desired start time.

- 1 Press the Power button and turn the cycle selector knob in either direction to select the desired cycle.
- 2 Modify the cycle settings and add other options (see pages 25-28), if desired.
- 3 Press the Delay Wash button repeatedly to select the desired start time.
  - The Delay Wash indicator 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 the Start/Pause button.

### 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 the Power button and turn the cycle selector knob in either direction to select the desired cycle.
- 2 Press the Steam button. The washer will automatically adjust the cycle settings.
- 3 Set any other desired options.
- 4 Press the Start/Pause button.

### ⚠ 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 non-colorfast 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 6 different washing motion (Tumbling, Rolling, Stepping, Scrubbing, Swing, Filtration), fabrics get the cleaning benefits, without the energy usage.

- 1 Press the Power button and turn the cycle selector knob in either direction to select the desired cycle.
- 2 Press the Cold Wash(TM) button. The washer will automatically adjust the cycle settings.
- 3 Set any other desired options.
- 4 Press the Start/Pause button.

### ! NOTE

- When you select the Cold Wash™ option, wash time will be increased up to 20 minutes.
- For high wash efficiency, using this option with less than 8 pounds (3.6kg) of laundry is recommended.

### Saving time, Turbo Wash™

Adding the Turbo Wash™ option to normal cycles reduces cycle time while providing the same wash performance.

The option uses the Twin Spray and Optimization features of the washer to save time without sacrificing performance.

- 1 Press the Power button and turn the cycle selector knob in either direction to select the desired cycle.
- 2 Press the Turbo Wash™ button. The washer will automatically adjust the cycle settings.
- 3 Set any other desired options.
- 4 Press the Start/Pause button.

## Setting options during the cycle

You can add the 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 the Pre Wash button 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 the Pre Wash button for 3 seconds during the wash cycle.

#### ! NOTE

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

## Saving a 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 the Power button and turn the cycle selector knob in either direction to select the desired cycle.
- 2 Modify other cycle settings and add options (see pages 25-28).
- 3 Press and hold the Custom PGM button for 3 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 the Power button, then press the Custom PGM button.
- 2 Press the Start/Pause button.

## 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 the Power button and turn the cycle selector knob in either direction to select the desired cycle.
- 2 Press and hold the Steam button for 3 seconds during the wash cycle.
  - The light will turn on.
- 3 You can now modify other cycle settings and add options (see pages 25-28), or proceed to step 4 to begin the cycle.
- 4 Press the Start/Pause button.

#### ! 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 3 seconds during the wash cycle.
  - The drum light will illuminate and then turn off automatically after 4 minutes.
  - It is normal for clothing and the gasket to appear yellow under the LED light.