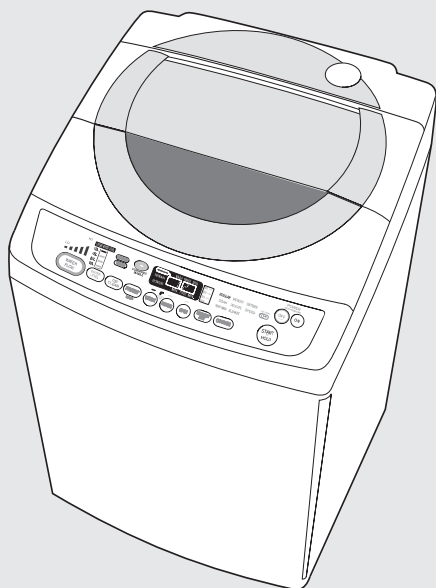


# TOSHIBA

Leading Innovation >>>

## FULLY AUTOMATIC WASHING MACHINE

### AW-DC1000CM



Thank you for purchasing TOSHIBA Fully Automatic Washing Machine.

Please read this manual carefully in order to operate the machine properly and safety.

Please keep this manual for future reference.


















## OWNER'S MANUAL

### CONTENTS










WARNING .....	2
CAUTION.....	3
DESCRIPTION OF PARTS.....	3
CONTROL PANEL DESCRIPTION ...	4~5
OPERATION OF FULLY AUTOMATIC WASHING MACHINE.....	6~7
HOW TO OPERATE .....	8
COURSE OF WASHING .....	9
WATER FLOW POWER.....	10
CUSTOM WASH CYCLES.....	17
SUPER SPIN DRY .....	19
RECOMMENDED DETERGENT AMOUNT.....	21
LID LOCK RELEASE .....	22
CHILD PROOF MODE .....	22
OPTION MODE .....	23
PRESET MODE .....	24
RESUME FUNCTION.....	24
LAUNDRY GUIDE .....	25
MAINTENANCE .....	26~28
INSTALLATION .....	29~31
BEFORE CALLING THE SERVICEMAN.....	32~35
SPECIFICATIONS .....	35

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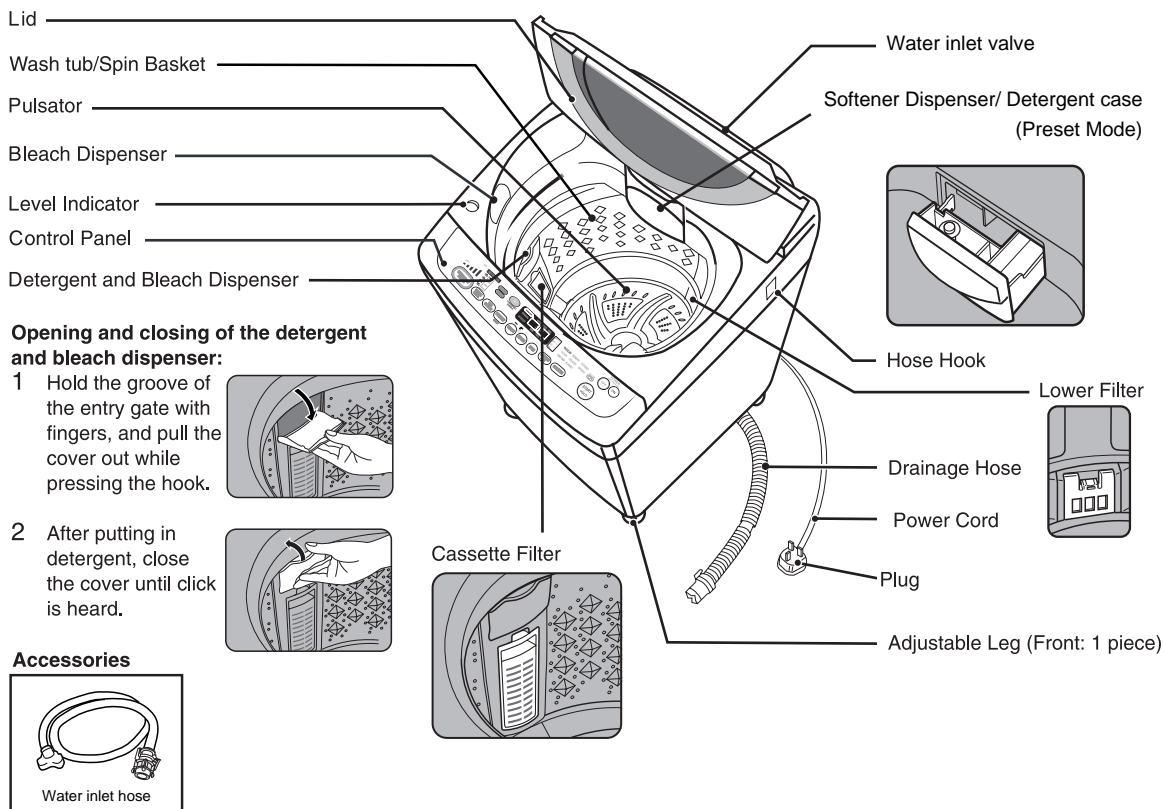
# ⚠ WARNING

 <b>WARNING:</b> This indicates an important item which incorrect operation may lead to injury or death.	
 DO NOT TOUCH	<ul style="list-style-type: none"> <li>▪ <b>Never attempt to touch laundry in the spin basket until the motion of the basket stops completely.</b> Laundry in the basket may become wrapped around the hand, even when the basket is only moving slowly. Use particular caution when children are present.</li> </ul> 
 OUT OF CHILD	<ul style="list-style-type: none"> <li>▪ <b>Never operate washing machine by young children and infirm person.</b> This washing machine is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge unless they have been adequately supervised by a responsible person to ensure that they can use the washing machine safely.</li> <li>▪ <b>Children should be supervised to ensure that they do not play with the washing machine.</b></li> <li>▪ <b>Never allow children to look into the basket or play around the washing machine.</b></li> <li>▪ <b>Do not place the stand or box near the washing machine.</b> Children may fall into the basket and get injured or drowned.</li> </ul> 
 DO NOT MODIFY	<ul style="list-style-type: none"> <li>▪ <b>Never disassemble or modify the machine.</b> It may cause fire or electrical shock or malfunctions that lead to injuries. Consult the store you bought the machine.</li> </ul>
 ELECTRIC SHOCK	<ul style="list-style-type: none"> <li>▪ <b>Use proper power source indicated in the rating label of the machine.</b> It may cause fire or electrical shock. Failure to use a proper power source may result in the electrical outlet becoming excessively hot, leading to fire.</li> </ul>
 UNPLUG POWER	<ul style="list-style-type: none"> <li>▪ <b>Unplug the power cord from the electrical outlet before attempting to cleaning or maintenance the washing machine.</b></li> </ul>
 DO NOT WET HAND	<ul style="list-style-type: none"> <li>▪ <b>Do not insert or pull the power plug with wet hands.</b> It may cause electrical shock or malfunctions that lead to injuries.</li> </ul>
 ELECTRIC SHOCK	<ul style="list-style-type: none"> <li>▪ <b>Never use damaged electrical cords or plugs or loose socket.</b> It may cause electrical shock or malfunctions that lead to injuries or fire.</li> </ul>
 DO NOT DISASSEMBLE AND REPAIR	<ul style="list-style-type: none"> <li>▪ <b>Do not damage the power cord.</b> Do not attempt to damage, cut, or modify the power cord, or subject it to excessive bending, pulling, twisting, or binding. Also, do not yank the metal portion, place heavy objects on the power cord, or pinch the power cord. Doing so may damage the power cord, resulting in fire or electrical shock.</li> <li>▪ <b>If the power cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.</b></li> </ul>
 DO NOT USE WET PLACE	<ul style="list-style-type: none"> <li>▪ <b>Do not install the washing machine in high humidity place.</b></li> <li>▪ <b>Do not install in a bathroom or in exposed area to the rain.</b> Doing so may result in electrical shock or short circuit.</li> </ul>
 DO NOT SPLASH WATER	<ul style="list-style-type: none"> <li>▪ <b>Do not allow water to come into direct contact with the various parts of the outer body.</b> Doing so may result in electrical shock or short circuit.</li> </ul>
 AVOID INFLAMMABLE	<ul style="list-style-type: none"> <li>▪ <b>Do not place flammable materials in the basket.</b> Do not put any kerosene, gasoline, benzene, thinners, alcohol, other flammable materials, or the laundry soaked with such materials in the basket. It can cause explosion or fire.</li> </ul>
 REMOVE DUST	<ul style="list-style-type: none"> <li>▪ <b>Wipe away off the dust or grime which attached to surface on pin of the plug.</b> The dust or grime may cause fire.</li> </ul>
 AVOID INFLAMMABLE	<ul style="list-style-type: none"> <li>▪ <b>Do not place a fire source such as a candle or cigarette near the washing machine.</b> It may cause fire.</li> </ul>
 INSTALL CAREFULLY	<ul style="list-style-type: none"> <li>▪ <b>Make sure that water drains properly.</b> Using the washing machine with faulty drainage may cause water to back up within the machine, leading to electrical shock or fire.</li> </ul>

## ⚠ CAUTION

<b>⚠ CAUTION:</b> This indicates an important item which incorrect operation may lead to injury or damages to the product.	
 DO NOT PULL	<ul style="list-style-type: none"> <li>■ <b>Do not pull the power cord when unplug the appliance.</b> Hold the plug body to unplug. It may cause electrical shock or malfunctions that lead to injuries.</li> </ul>
 DO NOT USE	<ul style="list-style-type: none"> <li>■ <b>Do not connect to the hot water supply.</b></li> <li>■ <b>Do not use water with temperatures over 50°C.</b> Water that is too hot may cause malfunctions and deformation of the machine, which may result in electrical shock.</li> </ul>
 DO NOT WASH	<ul style="list-style-type: none"> <li>■ <b>Do not wash or spin extraction the mats, waterproof suites such as raincoats, fishing suite (jackets and pants) ski suite, sleeping bags etc.</b> It will cause abnormal vibration and damage while in spin extracting.</li> </ul>
 DO NOT CLIMB	<ul style="list-style-type: none"> <li>■ <b>Do not climb or place heavy objects on the washing machine.</b> Doing so may result in injury due to bending or breakage.</li> </ul>
 UNPLUG POWER	<ul style="list-style-type: none"> <li>■ <b>Pull out the plug if you do not plan to use the machine for a long time.</b> Failure to do so may result in electrical shock or shorts due to deterioration of the insulation.</li> </ul>
 DANGER HAND	<ul style="list-style-type: none"> <li>■ <b>Do not place the hands or other objects under the washing machine while in operation.</b> Moving parts may cause injury.</li> </ul>
 WATER LEAKAGE	<ul style="list-style-type: none"> <li>■ <b>Before use, make sure the faucet is open, and the connection with water inlet hose is not loose or leakage water.</b> Looseness of hose nut, hose connections, water inlet valve or other areas may cause water leakage or other damage.</li> </ul>
 INSTALL CAREFULLY	<ul style="list-style-type: none"> <li>■ <b>The bottom ventilation of washing machine must not be obstructed by carpet when the washing machine is installed on a carpet floor.</b></li> </ul>
 STOP OPERATED	<ul style="list-style-type: none"> <li>■ <b>During the spin extracting, if the spin basket does not stop rotation completely within 15 seconds after opened the lid. Please stop operated the washing machine immediately and contact to service dealer for repairing.</b></li> </ul>

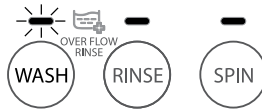
## DESCRIPTION OF PARTS



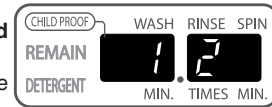
# CONTROL PANEL DESCRIPTION

## Display section

- The currently-running course is displayed flashing and the remaining courses are lighted stably.  
(ex.) When WASH course is in operation



- When the cover is opened after starting  
Detergent amount (reference value) is displayed.



indicating 1.2 cup

- When power is switched on and a course is selected  
Time for washing and spinning as well as times for rinsing are displayed.



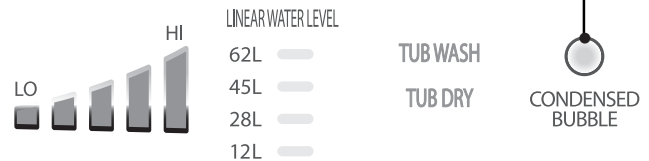
- ✳ The amount for 1 measuring scoop (cup) of detergent differs according to specific type of detergent. Please increase or decrease the amount of detergent according to the detergent used and reference water level displayed.

## “WATER FLOW POWER” button

- Press the “WATER FLOW POWER” to choose the water flow power.
- Selection can be only when any of “REGULAR,” and “MEMORY” is selected.

## “CONDENSED BUBBLE” Display

- The “CONDENSED BUBBLE” indicator will blink when the washer starts the operation.



WATER FLOW POWER

WATER LEVEL


TUB CLEAN

PRESET (HOURS)

## Water Level Indicator

- The set water level indicator will light up when the water is at the set level.
- Automatic Mode**
- The water level is set linearly by adjusting to the washing volume. If the water level is assigned at the point with no particular indication, then the nearest level will light up.
  - If there is some water in the basket before the operation, the indicator at the highest level will light up.

## Setting the button

- Press the  button to choose the water level. The indicator at the higher water level will light up.
- While the water is flowing into the basket, the indicator at “WATER LEVEL” will flashing.

## “TUB CLEAN” button

- Press the “TUB CLEAN” button once to enter the cleaning mode for the “TUB WASH”; and press it once to enter the mode of “TUB DRY”.

## “PRESET” button

- You can preset the time of all washing process.

- The amount of supply using the measure spoon accompanying the compact detergent is displayed.

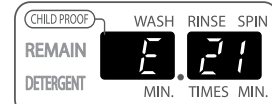


One measuring scoop of detergent for the water: 55 liters

- **After the start of operation**  
If the lid is closed, the estimated residual time to the end of washing will be displayed.

- **Reservation of the time to complete washing**  
The preset hours are displayed.

- **If an error occurs.**  
An error code will be displayed.



### Child Proof Mode Display

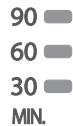
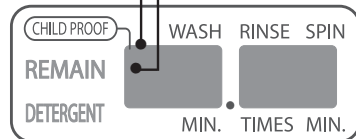
- After selecting this mode, “●” will light up.

### Course Indicator

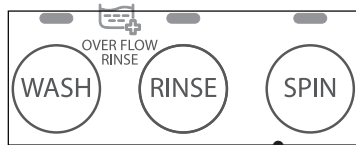
- The indicator of the selected washing course will light up.

### Lid Lock Mode Indicator

- When the child proof mode is selected, this display will light up.



POWER  
(AUTO POWER OFF)



### “WASH” “RINSE” “SPIN” buttons

- These buttons allow you to set a washing time, the number of rinsing cycles to be repeated and a spinning time respectively.

### “SUPER SPIN DRY” button

- Timing drying operates based on selected time period. As soon as the button is pushed, the indicator will be on until the selected time period ends.

### “COURSE” button

- When pressing this button, a lamp will light up. Then select the program suitable with the laundry.

### “POWER” “OFF/ON” buttons

- Press this button to power on/off.
- Power is automatically turned off about 15 seconds after the end of operation, or about 10 minutes later if the operation is not start.

### “START/HOLD” button

- Press this button to start the process.
- Press this button to hold the operation.

# OPERATION OF FULLY AUTOMATIC WASHING MACHINE

Fully automatic washing machine will operate to the following.

- This section describes the procedure of the “REGULAR” course with “CONDENSED BUBBLE”.

Put the laundry in the basket and start the machine. The sensor will weigh clothes and begin flowing water.

- 1** The pulsator begins to revolve 6 seconds after startup under none-water situation, and clothes are weighed.




- 2** Flowing water starts and the detergent amount is displayed. Put in detergent to “Detergent/Bleach dispenser”, and softener to softener case.

**Close the lid.**

- Reference value of detergent amount.

- 3** The water level indicator will be lighted when flowing water ends and the water is at the set level.

- When a chemical fiber, blending fiber or spreadsheet is washed, the water level may be a little bit low. Adjust the water level by  button.

**Washing**

**CONDENSED BUBBLE**

**Ri**

**The 1<sup>st</sup> and 2<sup>nd</sup> rinsing.  
(Shower rinse)**

Stirring during flowing water



Stirring after flowing water



Stirring after flowing water



Stirring starts during flowing water while washing and flowing water are executed simultaneously.

Times of flowing water differ depending on clothes weight and rinsing frequency.

Spinning after draining



Shower rinsing  
Flowing water starts while the spin basket revolves slowly.



2 times for



Why does the washing time appear a little bit long? Is the time displayed changed?

## About the display of the remaining time

The display is based on the flowing water amount of 15 liters/minute.

Under the following situations, washing time may be longer than remaining time displayed, or the time displayed may be changed during the process.

- Flowing water amount is smaller than 15 liters/minute.
- Unsmooth water draining.
- Gravity center of clothes shifts.



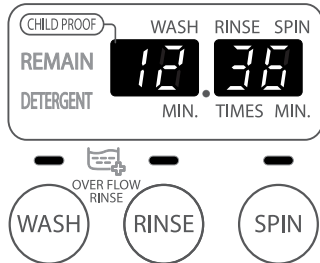
## What is overflow rinsing?

During stirring, flowing water and rinsing are executed simultaneously.



When flowing water amount is small, the wash tub/spin basket may not be filled up.

■ Washing process can be changed while the clothes are washed.



**1** Press button to hold the operation.

**2** Press the button of mode you want to change.

- “No-washing”, “No-rinsing” and “No-spinning” cannot be set.
- When “Super Spin Dry” is set, the spinning setting can not be changed.

**3** Press button again to start the operation.

- Changeable items are same as the custom setting.

Rinsing

Spinning

Super Spin Dry

The 3<sup>rd</sup> rinsing  
(Static rinse)

Lid Lock

Spinning after  
draining



this process

Soaking and washing  
Water is flowed to the  
setting level.



Softener automatically added during final rinsing.

Stirring



Spinning after  
draining



Set the Super Spin  
Dry according to  
your needs.



What happen if flow the water during spinning?

### About the gravity center of the clothes

When the gravity center of the clothes shifts during spinning, the remaining time will become longer if the following course is appended.



Stop spinning when  
the gravity center  
shifting is detected



flow water and  
correct the shifting

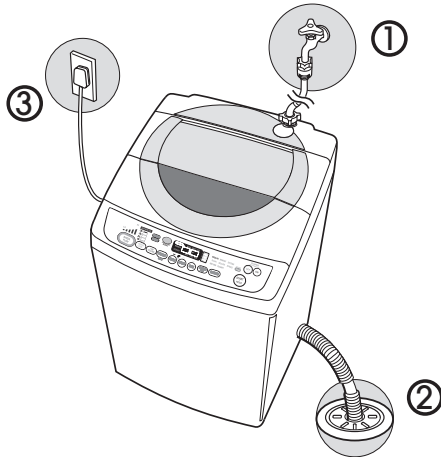


Redo draining  
and spinning process

# HOW TO OPERATE

## Preparation

- 1 Set the water inlet hose correctly and open the tap.



- 2 Pull the drainage hose out of the machine body and make it ready for draining.

- 3 Connect the power plug.

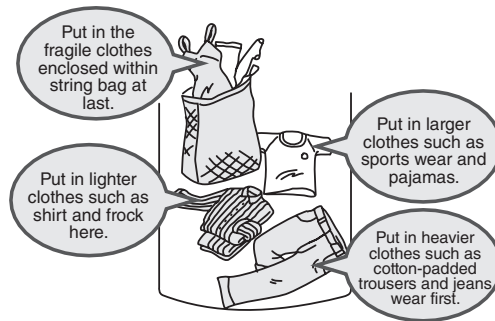
### Tips

**Make sure to attach the filter before running.**

Otherwise the water may splash seriously and clothes are subject to damage because of being hooked by the mounting parts.

### Method of putting in clothes

- Put in larger clothes or buoyant ones first.

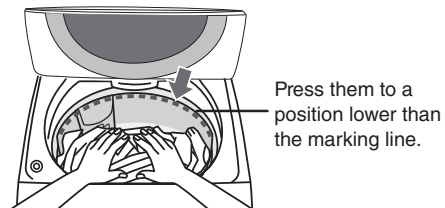


Buoyant clothes such as

- 100% chemical fiber material, like overall.
  - 100% chemical fiber or blending fiber material, like flannelette.
- (Chemical fiber means polyester fiber, acrylic emulsion or nylon fiber.)


Even articles labeled as washable by washing machine, such as pillow, cushion and buffer, can not be washed by this type of machine, because they can not be sufficiently immersed with detergent even press them after flowing water. Furthermore, clothes may fly out of the tub or failure will occur during spinning.

- Clothes need to be put in as evenly as possible and fully pressed into the tub.



- Baggy clothes which are subject to deform need to be washed separately.

- Adding clothes during washing

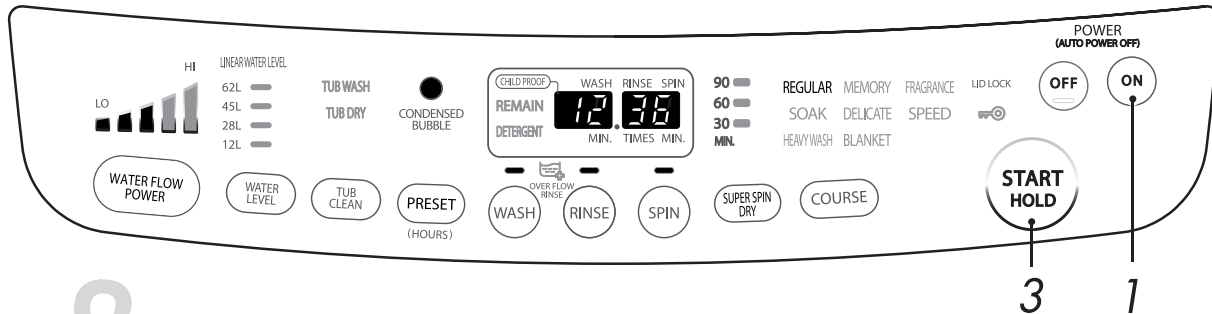
Please press  button and add more clothes after the machine fully stops. Press the clothes from above to make them soaked with the detergent.



# COURSE OF WASHING

Normal clothes can be washed through the optimum courses from washing to spinning.

## REGULAR course for normal clothes




### What is the CONDENSED BUBBLE?

Stirring starts at a low water level. Make detergent froth to have clothes soaked. Flowing water and washing go on simultaneously. Being soaked with concentrate detergent, clothes can be cleaned thoroughly. (Please add the detergent through the "Detergent and bleach dispenser" inside of the spinning tub. Failing to do so will reduce the cleaning performance.)

#### ■ Adding detergent

According to the display of detergent amount, add the detergent to the "Detergent and bleach dispenser" inside of the spinning tub.





- Adjust the position of the entry gate if it is not so easy to add detergent.
- Please press the  button before adding the detergent through the detergent case.
- Besides, please add the detergent directly around the washing-spinning tub if the flowing water has ended. Too much detergent will cause excessive foam, resulting in lower cleaning performance.

When the clothes are below 1.5 kg, please add detergent directly around the wash tub/spin basket.



1

### Turn the POWER on.

- The indicators of "REGULAR" and "CONDENSED BUBBLE" will be lighted.
  - Press the  button, and the indicator of "CONDENSED BUBBLE" will go out. Then the machine enters the "REGULAR" course.
- ▶ Please select the    buttons according to your needs.

2

### Put the laundry in the basket.

3

### Press the button.

- The pulsator starts to revolve before flowing water, then the machine will weigh clothes and display detergent amount (reference value). (When the lid is opened.)

4

### Based on the detergent amount displayed, add detergent to the detergent case, and then close the lid.

- When operating with the lid opened, the machine will stop before rinsing or spinning.

### At the end of operation










A "beep" sound will be heard indicating that the course is over.

- Close the faucet and clean the cassette filter.

# WATER FLOW POWER

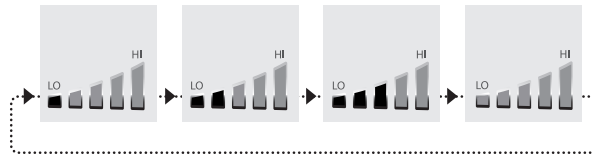
Press  button to choose the water flow power according to your needs such as what to be washed or dirtiness level.

## ■ How to choose the water flow power

Key operation	Display	Situation
Turn on the power.		Standard water flow (Default)
Press the  button once.		When you need to wash rather strongly.
Press the  button twice.		When you need to wash strongly.
Press the  button three times.		When you need to wash softly.
Press the  button four times.		When you need to wash rather softly.

- The water flow power during rinsing cannot be changed.
- The water flow power can be adjusted only any of “REGULAR” and “MEMORY” is selected.
- Clothes should not be washed by strong water flow power.
- When the “MEMORY” mode is set, the operation will start with the water flow power preset.
- When the water level reaches to a designated level, the water flow power will be indicated. Such indication will be repeated in the following order. This means the operation is being done under the water flow power preset.

## Example (Standard water flow power)



## ■ When you need to change the water flow power during operation

**1** Press the  button to hold the operation.

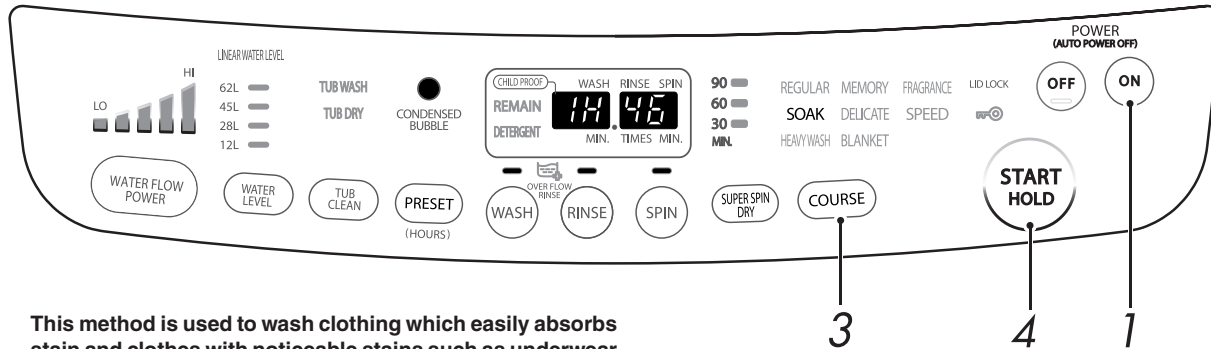
- The water flow power will be gradually increased, and then be decreased. When you need to wash sensitive clothes softly, hold the operation. Otherwise, such clothes may be damaged.

**2** Press the  button to choose the water flow power.

**3** Press the  button again.

- The water flow power will be changed during the operation when you select more than one levels of water.

**SOAK Course** When washing the seriously dirty clothes and expecting to prevent them from turning yellow.



This method is used to wash clothing which easily absorbs stain and clothes with noticeable stains such as underwear and shirt as well as seriously dirty overall, gym suit and thick socks. Soak and wash them with highly condensed detergent. ■ Implement the Soak Course according to the following instructions.

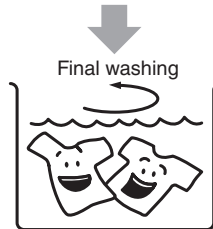
Pre-washing of the "CONDENSED BUBBLE"



First, have the clothes soaked with the detergent.



Soak and stir the clothes repeatedly with highly condensed detergent to remove sebum smear.

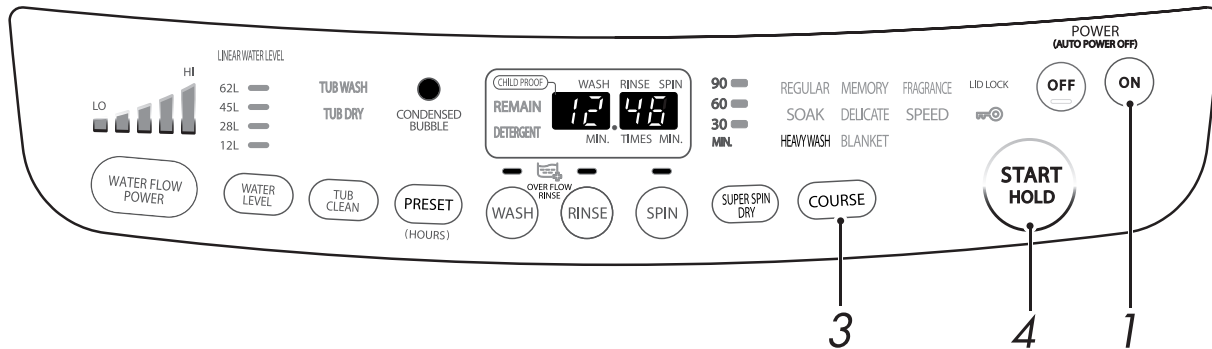


Final washing  
Make the smear easily removable by soaking and washing, thus achieve further cleaning.

- To prevent the clothes from turning yellow, use this course once a month to ensure the optimum performance.
- Press the (WASH) buttons and set the soaking time as 30 minutes, 1 hour, 2 hours, 4 hours, 6 hours or 8 hours, depending on your preference.
- The detergent amount displayed will be as much as three times of that for REGULAR course.
- Since the washing time is quite long, please do not use this course for clothes of fragile chemical fiber or unstable color.

- 1 Turn the POWER on.
  - 2 Put the laundry in the basket.
  - 3 Press the (COURSE) button then select "SOAK":  
▶ Select the (PRESET) (SUPER SPIN DRY) buttons according to your needs.
  - 4 Press the (START HOLD) button.
    - The pulsator starts to revolve before flowing water, and the machine will weigh clothes before displaying detergent amount (reference value). (When the lid is opened.)
  - 5 Based on the detergent amount displayed, add detergent to the detergent case, and then close the lid.
    - When operating with the lid opened, the machine will stop before rinsing or spinning.
- At the end of operation**  
A "beep" sound will be heard indicating that the course is over.
- Close the faucet and clean the cassette filter.

## HEAVY WASH course When you force to clean clothes thoroughly



This course is for seriously dirty clothes such as overall, gym suit and thick socks. Compared to the REGULAR course of the “CONDENSED BUBBLE”, this is a course with stronger water flow and more complete rinsing.

- Please do not use this course for fragile clothes such as towel and chemical fiber.
- The rinsing frequency is 4 times of flowing water (2 for overflow rinse and 2 for shower rinsing.)

- 1 Turn the POWER on.**
- 2 Put the laundry in the basket.**
- 3 Press the COURSE button then select “HEAVY WASH”**
  - ▶ Select the PRESET SUPER SPIN DRY buttons according to your needs.
- 4 Press the START HOLD button.**
  - The pulsator starts to revolve before flowing water, and the machine will weigh clothes before displaying detergent amount (reference value). (When the lid is opened.)
- 5 Based on the detergent amount displayed, add detergent to the detergent case, and then close the lid.**
  - When operating with the lid opened, the machine will stop before rinsing or spinning.

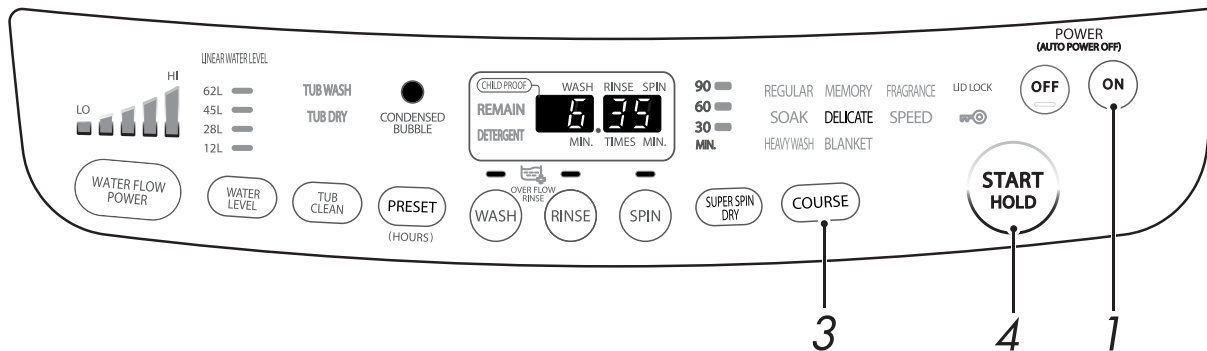
### At the end of operation

A “beep” sound will be heard indicating that the course is over.

- Close the faucet and clean the cassette filter.

## DELICATE course

When you need to wash the clothes softly



This course is for delicate clothes such as blouse or lingerie to wash gently with very mild water flow.  
Cloth Weight : 2kg or less.

- 1 Turn the **POWER** on.
- 2 Put the laundry in the basket.
- 3 Press the **COURSE** button then select **"DELICATE"**.  
▶ Select the **PRESET** and **SUPER SPIN DRY** buttons according to your needs.
- 4 Press the **START HOLD** button.
  - The pulsator starts to revolve before flowing water, and the machine will weigh clothes before displaying detergent amount (reference value). (When the lid is opened.)
- 5 Based on the detergent amount displayed, add detergent to the detergent case, and then close the lid.
  - When operating with the lid opened, the machine will stop before rinsing or spinning.

### At the end of operation

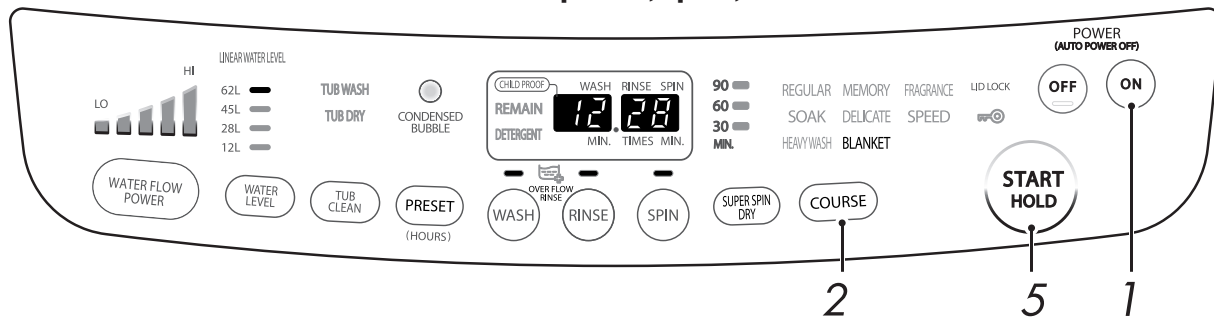
A "beep" sound will be heard indicating that the course is over.

- Close the faucet and clean the cassette filter.

## When you need to wash a larger article like a blanket

### BLANKET course

This course is for the larger articles such as blanket, flannelette spread, quilt, curtain and bed sheet.



### Type and amount which may be washed.

Double size  
(180 cm x 230 cm or less)  
100% synthetic fiber

Type: Mayer, Tuft, Down cloth

Weight: 4.7 kg or less

- All wool blankets and regular electric blankets should NEVER be washed.  
Washable electric blankets should be washed according to the washing instruction given in the user's manual that accompany them when purchased.
- If the blanket will not go into washing net because of fiber length of thickness, it can not be washed.

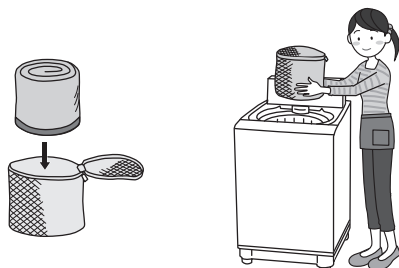
### Folding blankets

- Remove waste or thread from blanket.
- Fold the blanket in six lengthwise.  
Fold it once again the same way.



### Insert a blanket to the net

- Roll up the blanket.
- Roll the blanket up loosely except Mayer type blanket.
- Place the blanket into the blanket net hem-side first, and close the fastener.

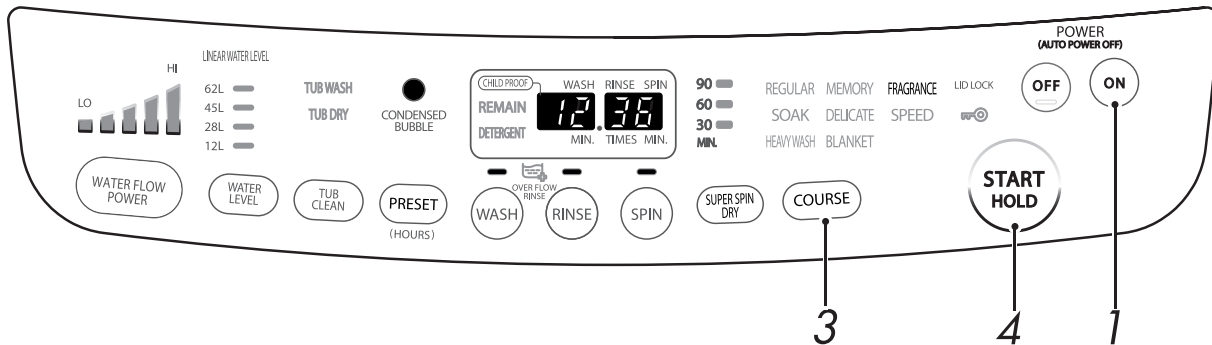


Washing period may become longer with drainage condition.

- 1 Turn the **POWER** on.
  - 2 Press the **COURSE** button, then select the **"BLANKET"**.  
▶ Select the **PRESET** buttons according to your needs.
  - 3 Based on the water level display, add detergent or softener agent to the detergent case, and then close the lid.  
• The detergent amount is not displayed.
  - 4 Put the larger item blanket washing net enclosed within into the washing-basket.
  - 5 Close the lid and press the **START HOLD** button.  
• When operating with the lid opened, the machine will stop before rinsing or spinning.
- At the end of operation**  
A "beep" sound will be heard indicating that the course is over.  
• Close the faucet and clean the cassette filter.

## FRAGRANCE course

This course is to maximize the effect of softener, which results in perfumed feeling.



The method would be almost same as "REGULAR" course.

- SOFTENER MUST BE USED. (Refer to page 21,25)

Washing (CONDENSED BUBBLE)



The washing procedure is same as that of REGULAR course.



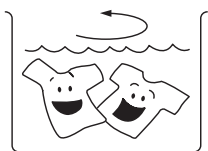
Soaking and Rinsing



Wash clothes completely by soaking and rinsing.



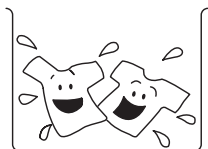
Soaking and Rinsing



Put the softening agent and wait for a while, having the clothes be soaked with the agent.



Spinning



The spinning procedure is same as that of the REGULAR course.

**1** Turn the **POWER** on.

**2** Put the laundry in the basket.

**3** Press the **COURSE** button, then select the **"FRAGRANCE"**

- ▶ Select the **PRESET** **SUPER SPIN DRY** buttons according to your needs.

**4** Press the **START HOLD** button.

- The pulsator starts to revolve before flowing water, and the machine will weigh clothes before displaying detergent amount (reference value). (When the lid is opened.)

**5** Based on the detergent amount displayed, add detergent to the detergent case, and then close the lid.

- When operating with the lid opened, the machine will stop before rinsing or spinning.

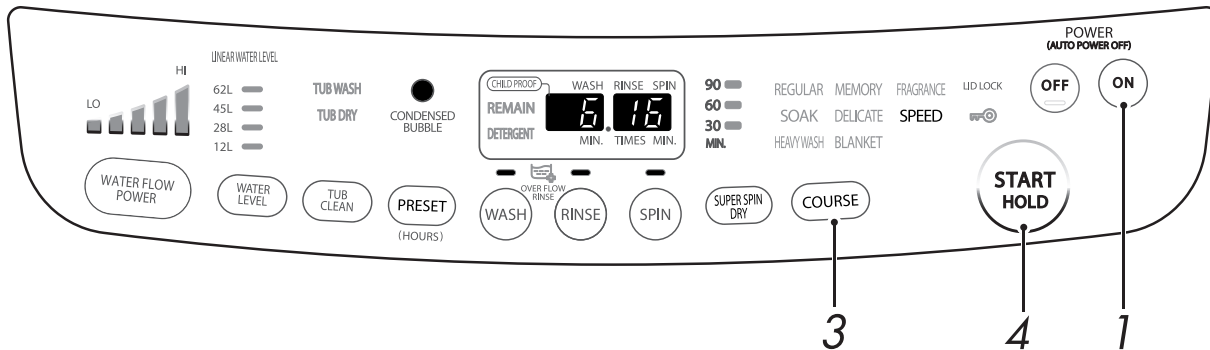
### At the end of operation

A "beep" sound will be heard indicating that the course is over.

- Close the faucet and clean the cassette filter.

## SPEED course

## When you need to wash shirts

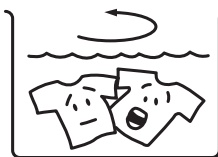


This course is for clothes such as T-shirt and frock, which should be protected from creasing. Compared to the "REGULAR" course of the "CONDENSED BUBBLE", this is a course with shorter washing and spinning time.

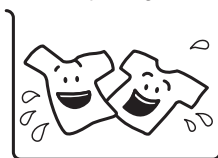
Washing (Condensed bubble washing)



Rinsing



Spinning



**1** Turn the **POWER** on.

**2** Put the laundry in the basket.

**3** Press the **COURSE** button, then select the "SPEED".

▶ Select the **PRESET** **SUPER SPIN DRY** buttons according to your needs.

**4** Press the **START HOLD** button.

- The pulsator starts to revolve before flowing water, and the machine will weigh clothes before displaying detergent amount (reference value). (When the lid is opened.)

**5** Based on the detergent amount displayed, add detergent to the detergent case, and then close the lid.

- When operating with the lid opened, the machine will stop before rinsing or spinning.

### At the end of operation

A "beep" sound will be heard indicating that the course is over.

- Close the faucet and clean the cassette filter.

### Tips

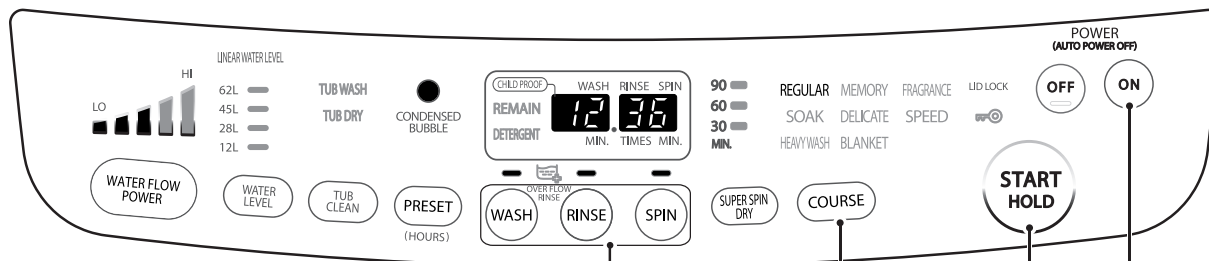
- Due to shorter spinning time, please do not use this course for towel or other thick clothes.
- Cold air drying and continuous revolving can not be executed.

### Key points for washing:

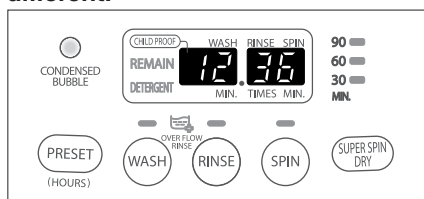
- When the collars or sleeves of clothes are seriously dirty, please daub some normal liquid detergent on them.
- To avoid creasing as much as possible, please take the clothes out of the tub immediately after washing.
- Please hang the clothes with hangers of enough widths, stretch them by holding with hands. Then dry them in shade.



# CUSTOM WASH CYCLES



According to various course, settings can be different.



**WASH** Maximum time is 12 minutes, with the unit of 1 minute.

8 minutes - 12 minutes	Normal smear
Off	None-washing
3 minutes - 5 minutes	Light smear

**RINSE** Maximum rinsing frequency can be 4 times, with selections between overflow rinse and soaking & rinsing.

2 time	1 shower rinse, and 1 static rinse
2 times of flowing water	1 shower rinse, and 1 overflow rinse
3 times	2 shower rinse, and 1 static rinse
3 times of flowing water	2 shower rinse, and 1 overflow rinse
4 times	2 shower rinse, and 2 static rinse
4 times of flowing water	2 shower rinse, and 2 overflow rinse
Off	None-rinsing
1 time	1 static rinse
1 time of flowing water	1 overflow rinse

**SPIN** Maximum time is 9 minutes, with the unit of 1 minute.

4 minutes - 8 minutes	Normal clothes
9 minutes	Thick clothes
Off	None-spinning
1 minute - 2 minutes	Creasing-prone clothes

**1** Turn the **POWER** on.

**2** Select the **course**.

- You do not need to press any key if the indicator is lighted.
- If you use "MEMORY" course, the system will store the setting. When you power on the machine next time, the "MEMORY" indicator will be lighted.

**3** Press the **WASH**, **RINSE**, **SPIN** buttons separately to change the operation.

- ▶ Please select the **PRESET**, **SUPER SPIN DRY**, **WATER FLOW POWER** buttons according to your needs.

**4** Press the **START HOLD** button.

**5** Based on the detergent amount displayed, add detergent to the detergent case, and then close the lid.

- When operating with the lid opened, the machine will stop before rinsing or spinning.

**At the end of operation**

A "beep" sound will be heard indicating that the course is over.













- Close the faucet and clean the cassette filter.

## Memory Washing of the Custom Setting When you only need to rinse clothes

### MEMORY course




This course is to change the operation for the "REGULAR" course of the "CONDENSED BUBBLE", which will be stored into the "MEMORY" course.

In various courses, you can set processes such as washing-spinning and spinning only, or change the setting of the washing time, the rinsing frequency and the spinning time.

Situations	Operations	Washing, Rinsing and Spinning selected
<ul style="list-style-type: none"> <li>Use detergent for twice</li> <li>Dissolve detergent in advance</li> </ul>	<b>Washing only</b> Water retained.	
<ul style="list-style-type: none"> <li>Re-use rinse solution</li> </ul>	<b>Washing-Rinsing</b> Water retained.	 
<ul style="list-style-type: none"> <li>Execute separate rinsing</li> </ul>	<b>Washing-Spinning</b>	 
<ul style="list-style-type: none"> <li>Rinse the clothes that have been washed</li> </ul>	<b>Rinsing only</b> To enhance the rinsing performance, the program starts from draining-spinning with rinsing water retained.	
<ul style="list-style-type: none"> <li>Rinse and spin clothes after wringing out detergent liquid</li> </ul>	<b>Rinsing-Spinning</b> To enhance rising performance, the program starts from draining-spinning.	 
<ul style="list-style-type: none"> <li>Spin other washed clothes</li> <li>Drain used water</li> </ul>	<b>Spinning only</b> Drain before spinning. When draining only is implemented, pre-open the cover and shut down the machine when E21 is displayed.	
<ul style="list-style-type: none"> <li>Change setting during operation</li> </ul>	<b>Washing-Rinsing-Spinning</b>	  

※ If water level is not set for procedures after rinsing, it will be automatically set to the highest level.

#### ■ About washing course combined with the SUPER SPIN DRY

- To select the desired washing course, press the  button, and then change the setting except spinning time.
- You can not select the course of "WASH" "SUPER SPIN DRY", or "WASH" "RINSE" "SUPER SPIN DRY" without Spinning Process. When you do not need washing, or rinsing process, please press the   buttons.  
 After the "MEMORY" course is executed, although the "MEMORY" course can be stored, the "SUPER SPIN DRY" course can not be stored.

#### ■ About SOAK course

- It can not be set with "WASH" only, "WASH-SPIN" or "SPIN" only.

# SUPER SPIN DRY

When you need to dry clothes or shorten their indoor drying time.

## SUPER SPIN DRY

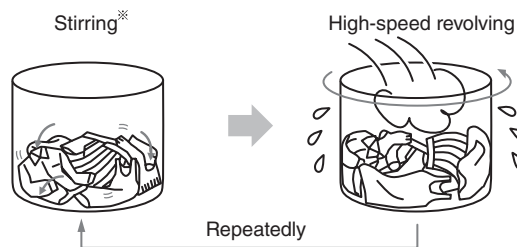
Through setting of the SUPER SPIN DRY for 30,60 minutes, you can vapor the water contained in clothes, thus shorten their indoor drying time. In addition, you can basically dry sports wear, chemical fiber or blending fiber by setting SUPER SPIN DRY for 90 minutes (less than 3 kg).

- The hand touch differs depending on the type, weight of clothes, room temperature and moisture. Clothes will be cold due to air drying process, so they may produce a hand touch feeling like the wet ones.



## What is the SUPER SPIN DRY?

This is a course which discharge wet air through the high-speed revolving of the washing-spinning tub, thus vapor the water carried by the clothes.



※: Stir for every 15 minutes to unravel the clothes. Stirring may not be necessary, depending on the weight of the clothes.

### ■ Clothes prohibited for the SUPER SPIN DRY

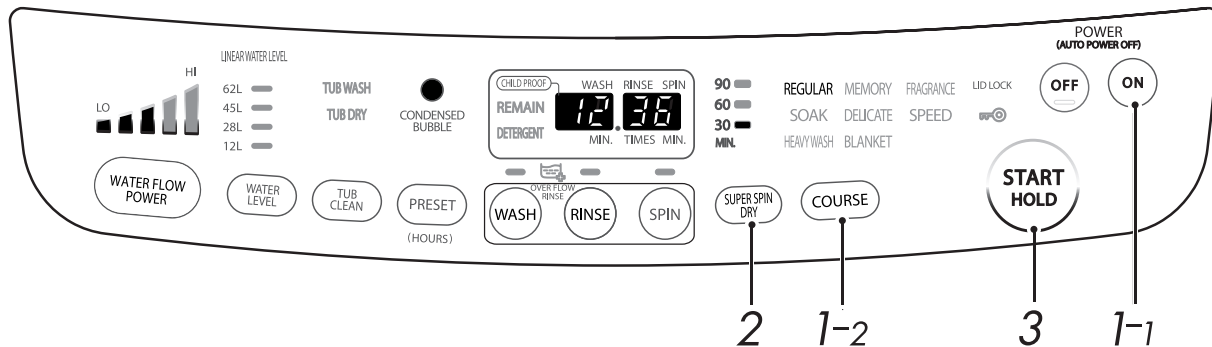
- Since the SUPER SPIN DRY needs a long time for high-speed revolving, and unravel clothes every 15 minutes, the following articles are not allowed for the process:
- Clothes with unstable color
- Creasing-prone clothes (such as frock, or 100% cotton shirt)
- Deformation-prone clothes
- Water-tight clothes
- Quilt and blanket

### ■ Method of using SUPER SPIN DRY button

(Ex.) When the "REGULAR" course of the "CONDENSED BUBBLE" is being executed

Press the  to select processing time according to the following sequence or select SUPER SPIN DRY only. Please press the  button for at least 4 times, when you select SUPER SPIN DRY only.

	Washing	SUPER SPIN DRY
1 time	"REGULAR" course for CONDENSED BUBBLE	30 minutes
2 times	"REGULAR" course for CONDENSED BUBBLE	60 minutes
3 times	"REGULAR" course for CONDENSED BUBBLE	90 minutes
4 times	None	30 minutes
5 times	None	60 minutes
6 times	None	90 minutes



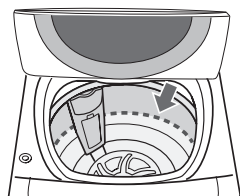
**■ Applicable weight reference for the SUPER SPIN DRY**

Chemical fiber or blending fiber clothes of less than 3 kg.

**■ Reference value of 3 kg.**

This value assumes that the clothes are unraveled and put into the tank under the lower limit of filter.

Too many clothes are subject to creasing and are not easy to dry.



**■ Setting time and reference value for the SUPER SPIN DRY**

- Time can be set as 30 minutes, 60 or 90 minutes. Please base on the following reference values to select what you prefer.  
If you want to shorten the indoor drying time of clothes by : 30 , 60 minutes  
If you want to dry chemical fiber or blending fiber clothes by : 90 minutes

**Tips:**

If drying is incomplete, please do it once more.

**1 Power on, add clothes and select course.**

- “SUPER SPIN DRY” can not be selected for course of “BLANKET”, “TUB CLEAN” and custom wash without “SPIN”.

**2 Press the “ SUPER SPIN DRY ” button to select time.**

- The time setting indicator of the “SUPER SPIN DRY” will be lighted.
- ▶ Select the PRESET button according to your needs.

**3 Press the START HOLD button.**

- The pulsator starts to revolve before flowing water, and the machine will weigh clothes before displaying detergent amount (reference value). (When the lid is opened.)

**4 Based on the detergent amount displayed, add detergent to the detergent case, and then close the lid.**

- When operating with the lid opened, the machine will stop before rinsing or spinning.

**At the end of operation**

A “beep” sound will be heard indicating that the course is over.

- Close the faucet and clean the cassette filter.

# RECOMMENDED DETERGENT AMOUNT

## ■ Reference value of detergent amount

( ) means in the case of "SOAK" course.

Rated capacity (kg)	Display of detergent amount (scoop)	Manual Water Level Setting	Detergent			Softener	
			Powder		Liquid	Normal type	Concentrated type
			Normal type	Concentrated type	Concentrated type		
9.0	1.2	62L	Approx. 83g	Approx. 44g	Approx. 44mL	Approx. 41mL	Approx. 14mL
	1.1		Approx. 80g	Approx. 40g	Approx. 40mL	Approx. 40mL	Approx. 13mL
	1.0		Approx. 75g	Approx. 37g	Approx. 37mL	Approx. 37mL	Approx. 12mL
	0.9 (2.0)		Approx. 68g	Approx. 34g (Approx. 74g)	Approx. 34mL (Approx. 74mL)	Approx. 34mL	Approx. 11mL
4.0	0.8 (2.0)	45L	Approx. 60g	Approx. 30g (Approx. 74g)	Approx. 30mL (Approx. 74mL)	Approx. 30mL	Approx. 10mL
	0.7 (2.0)		Approx. 53g	Approx. 27g (Approx. 74g)	Approx. 27mL (Approx. 74mL)	Approx. 27mL	Approx. 9mL
	0.6 (1.8)		Approx. 47g	Approx. 23g (Approx. 69g)	Approx. 23mL (Approx. 69mL)	Approx. 23mL	Approx. 8mL
	0.5 (1.5)		Approx. 37g	Approx. 19g (Approx. 57g)	Approx. 19mL (Approx. 57mL)	Approx. 19mL	Approx. 6mL
1.5	0.4 (1.2)	28L	Approx. 30g	Approx. 15g (Approx. 45g)	Approx. 15mL (Approx. 45mL)	Approx. 15mL	Approx. 5mL
	0.3 (0.3)		Approx. 21g	Approx. 11g (Approx. 33g)	Approx. 11mL (Approx. 33mL)	Approx. 11mL	Approx. 4mL
	0.2 (0.6)		Approx. 16g	Approx. 8g (Approx. 24g)	Approx. 8mL (Approx. 24mL)	Approx. 8mL	Approx. 3mL
Blanket			—	—	Approx. 44mL	Approx. 41mL	Approx. 14mL

- The detergent amount (reference value) for "REGULAR", "SOAK", "HEAVY WASH", "MEMORY", "FRAGRANCE" and "SPEED" course is displayed on the basis of 55 liters of water level and 1 measuring scoop amount. In addition, please refer to the instruction manual of detergent for amount.
- Detergent powder includes composite detergent and soap powder. The latter is made of natural oil. Please confirm the detergent label.
- Water level changes according to the specific detergent type.

### Tips

- Please do not add excessive detergent. (Please refer to the table list shown above to add detergent based on the weight of clothes.)  
Too much detergent will produce overflowing foam, which may wet the floor and cause accident.
- Please avoid splashing detergent onto the cover or operating panel. If any, please clean them immediately.

# LID LOCK RELEASE

Do not force to open the lid, if it is locked. Please release it as.

## ■ During the machine operation.

Press the  button to release the lid.

## ■ During the machine shut down.

Press the  button to release the lid.

Remark: Please wait until the lights at indicator will off before open the lid.

(When the power is turned off or shut down during operation, the lid will be automatically locked.)

**WARNING:** Do not open the lid in this state/the  lights up, doing so may damage the lid.

# CHILD PROOF MODE (if you have small children)

## CHILD PROOF mode

This model is equipped with CHILD PROOF mode. After this mode is set to ON, the lid can be locked so that children should not fall into washing-spinning tub during washing or drying. **If you find the accident such as children's falling into the wash tub, please take necessary safety action urgently.**

If there are small children who require attention, set this mode ON.

**WARNING:** Pay attention to small children. Do not leave the lid open. Do not leave the washer filled with water. Never allow children to look into the basket or play around the washer. Do not place the stand or box etc. near the washer.

## HOW TO USE CHILD PROOF MODE

Press the  button, then the washing machine begins operating, follow the instruction below:

Hold down the  button, press the  button once again.

- A buzzer will sound and the CHILD PROOF mode indicator will be activated.

Once the CHILD PROOF mode is set, it is stored in memory.

### Canceling the CHILD PROOF mode

Hold down the  button, press the  button once again.

- A buzzer will sound and the CHILD PROOF mode indicator will be canceled.

Once the CHILD PROOF mode can be canceled even during the operation.

- Cannot add detergent while child proof mode. The lid lock is activated.

- If accident occur when strongly pull up lid when lid lock in child proof mode operate. The buzzer will be sound and operation will stop. Subsequently if that state persists about 5 seconds, it will be detected as an alarm and water will be drained.



# OPTION MODE

## If you feel the amount of water is less or much

Water level is automatically set to suit the amount of laundry. If you feel the amount of water is less or much, you can adjust it as the following.

If you feel the amount of water is much.

If you feel the amount of water is less.

Turn the POWER **ON** with pressing the **WATER LEVEL** button.

Adjust by pressing WASH.

Press twice. (Decrease approx. 10L.)      Press once. (Decrease approx. 5L.)

LINEAR WATER LEVEL	LINEAR WATER LEVEL
62L <input type="checkbox"/>	62L <input type="checkbox"/>
45L <input type="checkbox"/>	45L <input type="checkbox"/>
28L <input type="checkbox"/>	28L <input type="checkbox"/>
12L <input checked="" type="checkbox"/>	12L <input type="checkbox"/>

Adjust by pressing PRESET.

Press once. (Increase approx. 5L.)      Press twice. (Increase approx. 10L.)

LINEAR WATER LEVEL	LINEAR WATER LEVEL
62L <input type="checkbox"/>	62L <input checked="" type="checkbox"/>
45L <input checked="" type="checkbox"/>	45L <input type="checkbox"/>
28L <input type="checkbox"/>	28L <input type="checkbox"/>
12L <input type="checkbox"/>	12L <input type="checkbox"/>

Turn the POWER **OFF**. (Finished adjusting)

\* Set it once, it is written in memory. You don't have to set it on each laundry.

## If you wish to turn off the end buzzer sound

- You can turn off the buzzer sound by



Press and hold



Press

1 Press the "COURSE" button and hold. Then press the POWER button. After buzzer beeps 3 times, the end buzzer disabled.

2 Follow this instruction when you want to reset to enable the buzzer.

- \* After you set the buzzer, the washer will keep the setting in memory. So it is not necessary to reset the buzzer every time.

## If you want to return initial setting



Holding



Press

1 Power on while holding the "TUB CLEAN" button.

2 Three beeps will be heard and the current setting will be deleted 5 second later. Shut down the system.

- \* All setting will be restored to initial status.

## If you wish to change the shower rinse to the static rinse

For the shower rinse, it needs twice for the process. But for the static rinse, it needs only once.



Press



Press and hold for 3 seconds

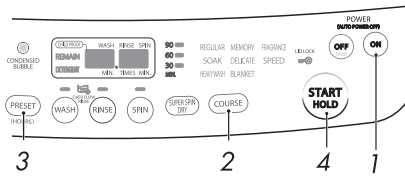
1 Press this button to turn on the washer.

2 Press the **RINSE** button and hold for 3 seconds. The buzzer sound will be heard and the course will be set within 5 seconds. After that, turn off the washer.

- \* Follow this instruction for the shower rinse, and the buzzer sound will be heard.
- \* After the setting, the washer will keep the setting in memory. So it is not necessary to reset every time.

# PRESET MODE

## How to use preset mode



### TO SET/RESET PRESET MODE

- Turn the POWER **OFF** when you want to delete memory. If you wish to change preset time, turn the POWER **OFF**. And then set to new preset time.

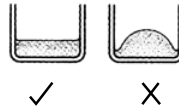
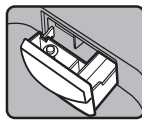
### TO CONFIRM PRESET TIME

- Display preset time when you open the lid or press the **PRESET** button.
- The finished times for the preset and the actual times are different because of the water pressure and the drainage condition.

- 1 Turn the POWER **ON** .  
▶ Put the laundry in the basket and select your favorite cycle or water level.  
Set the custom wash cycle.
- 2 Select the **COURSE**.
- 3 Press the **PRESET** button to preset the time.
  - The displayed time can be changed from 1 to 24 hours by increasing 1 hour per press.
- 4 Press the **START HOLD** button.
  - Check if the faucet is on.
- 5 Put the detergent according to the detergent guide and then close the lid.

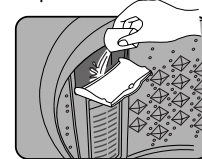
### POWDER DETERGENT

Pull the detergent case, then place the detergent evenly in the case. Then shut the case.

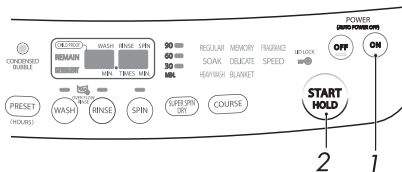


### LIQUID DETERGENT

Pour the liquid detergent into the bleach dispenser.



# RESUME FUNCTION (POWER FAILURE RECOVERY)



If there is a power failure occurs during operation, the washer memorizes the remaining process. After the electricity recovers, you can resume it.

- 1 Turn the POWER on.
  - ▶ The progress and course indicators of the remaining process will be flashing, and the buzzer sounds for 5 seconds.

- 2 Press the **START HOLD** button.

- NOTE**
- For "PRESET MODE", if the power failure occurs before the machine starts operating, the machine will cancel the preset time. Therefore, you have to reset the time.
  - Press the **OFF** button to clear the remaining process.



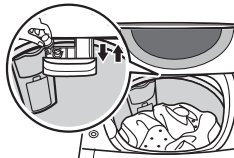
# LAUNDRY GUIDE

## Using the softener

Please refer to the instruction manual of softener for amount and method before using.

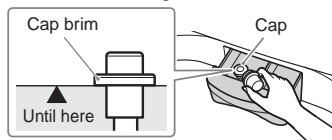
When the machine is operating, please press **START HOLD** before adding softener.

- Please add softener with appropriate amount into the softener dispenser, on the basis of reference value displayed. The softener will be added automatically into the tub during the final rinsing.
- Please keep the case of softener well.



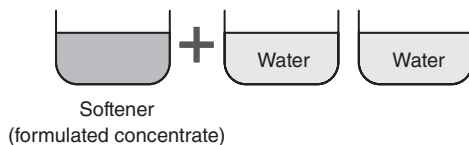
### Tips

- Please make sure to press the softener dispenser in place. Do not have the agent level higher than the cover brim of the box. Otherwise, too much agent will overflow during washing.

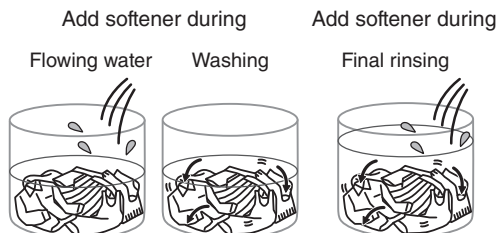


- Please do not leave softener in the case for a long time, otherwise it may become solidified.
- Please avoid splashing the agent onto operating panel, if any, clean it immediately.
- Please do not open the case during rinsing & flowing water, otherwise the water may splash out.
- Due to the siphoning structure, some liquid may remain inside the case, which is not abnormal.
- Condensed liquid may be too thick to add. Please dilute it with the ratio of 1:2 before adding.

Measuring cap



### When is the best for adding softener?



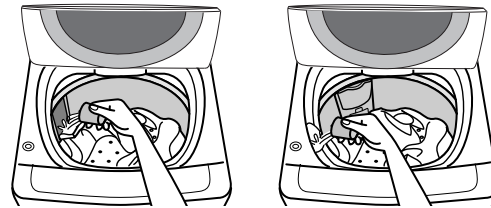
- Please add softener into the case before the end of washing. It will be automatically added into tub during final soaking & rinsing.

## When liquid detergent and bleach are used

Please refer to the instruction manual of detergent and bleach for amount and method before using.

### Liquid detergent

- Please add it into the entry gate of detergent and bleach or the one of liquid bleach.
- When liquid soap is frequently used, please implement "Tub cleaning" regularly to eliminate soap gas that usually appears.



### Liquid bleach

- Please dilute the bleach with 3 times of water before adding it into the entry gate of detergent and bleach or the one of liquid bleach.
- Please do not add the bleach directly into Washing-Spinning tub or splash it onto clothes. Otherwise it may cause discolor or cloth damage.
- While using PRESET mode, please add soap powder before adding liquid bleach.

### Powder bleach

- Please add it into the entry gate of detergent and bleach.



### When changing the position of the entry gate

- Power on and open the cover, then set to Spinning only and start. When "E21" is displayed, please turn the washing-spinning tub with hand to an appropriate position for adding detergent and bleach. Turn off the system.

# MAINTENANCE

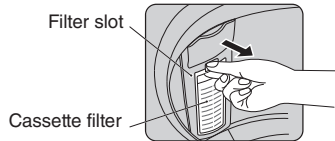
## CASSETTE FILTER

Clean the lint trap at the end of operation.

### Cassette filter

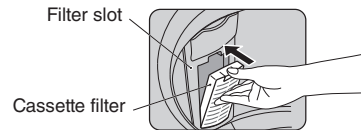
#### How to remove

Hold the upper side of the cassette filter, and push down and pull it at the same time.



#### How to set in

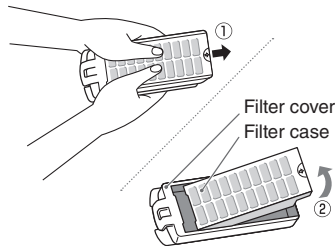
Hold the filter case with its top side up. Put the lower side of the filter case in the filter stand, and then push it until a "click" sound is heard.



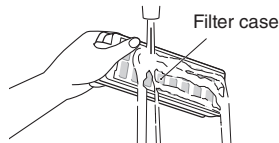
### Filter cover

#### How to remove

Turn over the filter, and then slide the filter case in the arrow direction of the following figure (1) to remove it (2). Clean inside the filter cover and the filter case.

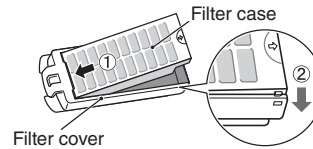


※ When it is difficult to remove the filter case due to lint attached, wet it with water to soften the lint.



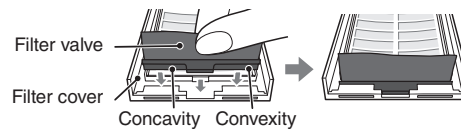
#### How to set in

- ① Set the filter case to the filter cover as follows.
- ② Press down the filter cover case until a "click" sound is heard.

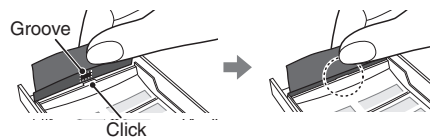


#### When the filter valve inside the filter cover is loosened

- ※ If the filter valve is loosened, lint may not be collected.
- ① Set the filter valve to the filter case while aligning its concavity and convexity to those of the filter case.



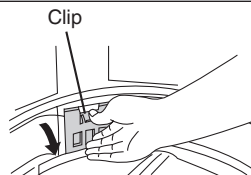
- ② Insert the groove of the filter valve to the click at the center of the filter cover.



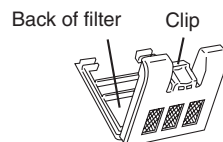
## LOWER FILTER

#### Disassembling method

Press it downward before pulling it out by holding the groove with fingers.

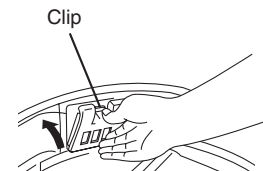


Open the back of filter and take out the batt.



#### Installing method

Push the upper clip forward to the filter. And keep pushing it downward until a click is heard.



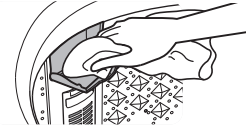
# MAINTENANCE

## Detergent/Breach dispenser

Wipe or Wash out any remaining detergent.

If there is any remaining detergent hard to be removed, use the "TUB CLEAN" course.

- Before put detergent or breach to in the detergent/breach dispenser, remove water in its inlet. With any remaining water, detergent may be hardened and attached.



## Softener Dispenser/ Detergent case (Preset Mode)

Remove the case to clean it. In addition, wipe away any dirt from the water inlet valve.

### Removing the case

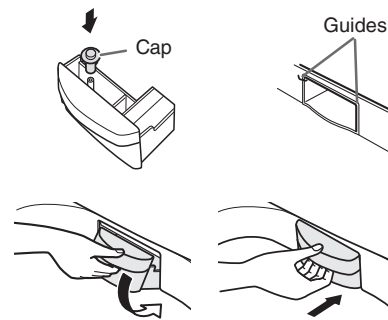
- 1 Removal procedure;  
Pull the detergent /softener case toward you, then lift it for removal.



- 2 Remove the cap of the detergent/softener case. Make sure to put back the cap after removing the cap. If the washing machine operates without the cap in place, the softener does not enter.

### Remounting procedure

- 1 Mount the cap of the insertion case
- 2 Lift the case obliquely in the same way as you remove it, and insert it deeply along the guides.



## Washing machine body and panel

Before performing any maintenance on your washing machine, be sure to remove the electrical plug from its power source.

The main body and control panel may be cleaned by wiping with a soft cloth soaked in water. (Hard-to-remove dirt may be cleaned by wiping with a soft cloth soaked in a mild detergent.)

**Caution:** Never clean the body or control panel with benzine, thinner, cleanser, or other chemical cleaners. Use of such chemicals can discolor or damage parts.

## If the stainless steel wash basket rusts for external reasons

### ■ Stainless rust

Please clean the rust by a soft cloth or a soft cloth with a cream cleaner.  
\* Do not use metallic brush because the body may scratch and easily rust.

The stainless tub usually prevents the rust.  
However, there is possible to have it.  
Please follow the recommendation below to prevent rust.



- Do not put the metallic objects into the machine, e.g. Hair clip.
- After draining the water, the rusted water will be drained. This will caused the accumulated rust inside the washing machine. Clean it again with clean water.

# MAINTENANCE

## Cleaning the tub

Use "TUB CLEAN" button to select either "TUB WASH" or "TUB DRY". Since the two modes are different, please make sure to confirm through the displaying of indicator.

### "TUB WASH" course

The dirt from clothes or waste water on the wash/spin basket will cause the smell or the problem of water draining. Such dirt from the washing process will then make the laundry dirty. If you are in such case, please use "TUB WASH" program once a month. Or in case the clothes have been starched, please use the "TUB WASH" program to remove the dirt of the starch from the basket.

#### "TUB WASH" Process

Water intake/Stir (※1)	about 11 min
Soak	about 20 min
Wash	about 3 min
Drain/Spin (※2)	about 3 min
Water intake/Stir (※1)	about 11 min
Rinse	about 3 min
Drain/Spin (※2)	about 3 min

- ※ 1 The pulsator stir while the water level increases gradually. For the tub water, the operation may slightly differ.
- ※ 2 The water spins while draining out.

- Do not use "TUB WASH" program continuously.

■ When you want to dry the wash tub/spin basket.

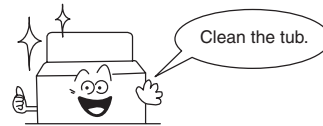
### "TUB DRY" course

- Run "TUB DRY" after washing is finished, to prevent mildew by removing the moisture of the tank. Please run the course once a week.
- ※ Please do not add clothes during the course.

#### Tips

- Mildew of Washing-Spinning tank occurs depending on the environment.
- Once mildew occurs, it can not be removed by "TUB DRY" process. Therefore, it is recommended to run "TUB DRY" and "TUB WASH" regularly.

- Normally use soap powder.
- The amount of detergent must be more than the guided Standard Detergent Amount.



1 Turn the POWER on.

2 Press the  button and select TUB WASH.

3 Press the  button.

- Other indicator will light off.  
light up only "TUB WASH" indicator.

4 When the pulsator (spinning board) starts to stir, add the chlorine-type whitening detergent about 300 ml. (300 g) to the basket.

- Add it at the first used water.
- Do not put any clothes in the basket during the "TUB WASH" program.

5 Close the lid.

- If the lid is opened during the operation, the operation will stop before the draining and rinsing process.

Finish "TUB WASH" process.

- Beeping when the operation is finished.

# INSTALLATION

## Choosing an installation location

### Install your washing machine in a level, stable place.

- It is dangerous to place the washing machine in an unstable location since it may move during vibration.
- It will increase the sound produced by the machine when it vibrates during use.



### Avoid place where the machine is exposed to direct sunlight.

- Plastic parts may become deformed or discolored.



### When you move washing machine, hold the handles on the sides.

### There are moving parts, electrical parts and steel plates which may cause electrical shock or injury.

- Never touch on the cabinet bottom by hands.
- Never life at the cabinet bottom by hands.



### Avoid places where the machine may become frozen during cold weather.

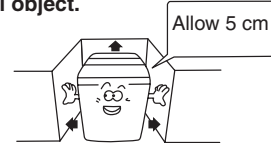


### When the machine is covered.

Do not use the cover made of chloric vinyl. Sometimes it damages resinous parts and painted surface. When you use the cover made of chloric vinyl, put the cloth between the machine and the cover.

### Allow a space of at least 5 cm from the sides and rear of the machine to the nearest vertical object.

- When placed too near to walls or other objects, the vibration of the machine during operation may cause them to shake.

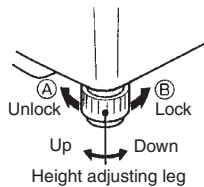
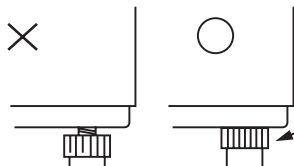


## Leveling the washing machine

When adjusting the legs, supports the top of the machine. Do not support the machine bottom.

### 1 Adjust the legs so that the machine does not move.

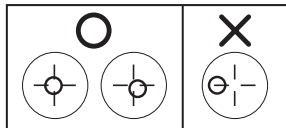
Note: After adjustment, lock the nuts of the legs by rotating them in the direction of the arrow. Make sure so that the bottom of the main body front does not reach the floor. If the bottom is in touch with the floor, then it will be the cause of shaking and abnormal noise.



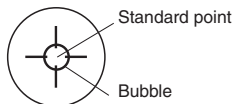
Tighten nuts of adjustable legs and lock them.

### 2 Check the position of the air bubble in the floor level indicator.

- If the bubble is not positioned inside the circle, adjust the height by rotating the leg caps.



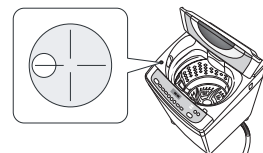
Note: Check the floor level indicator directly from above.



### 3 Depending on locations of the bubble in the horizontal level indicator, place caps and lock legs (Make sure to fix adjustable legs.)

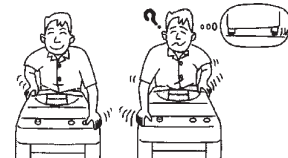
- Mount the leg caps on the right-hand legs. Rotate the height adjust legs to perform height adjustment.

(Ex.) The washing machine is tilted towards the right.



### 4 Hold down the diagonal line of the washing machine and make sure that no rattling occurs.

- Despite the fact that the bubble is inside the circle, the rattling exists. Then shaking motion becomes larger or some abnormal noise comes out. Make sure to readjust in case the washing machine rattles.



## Installing the ground wire

- Be sure to ground your washing machine when installing. When connecting or disconnecting the ground wire, be sure to first remove the power plug from the AC socket.
- In case of the machine with two conductor cord connect the ground wire to a proper ground before plugging the power cord into the socket.
- In case of 3-core cord the ground pin in the plug should be connected to the proper point of the socket.

Do not connect the ground wire in any of the following places under any circumstances:

- Do not connect the ground to gas piping. There is a danger of fire or explosion.
- Do not connect the ground to telephone lines or lightning rods. There are dangerous during thunder or lightning storms. Also, as underground water pipes are often made of plastic, don't place grounding rods near them.

# INSTALLATION

## Installing the ground wire

### Two-core flexible cord

#### When using the ground terminal on an AC outlet:

Ensure that the ground wire is securely connected to the ground terminal.

When there is no ground terminal:

- An optionally available grounding rods is re-commended for use. The grounding rod should be planted in the dampest ground possible.

### Three-core flexible cord

#### WARNING THIS APPLIANCE MUST BE EARTHED.

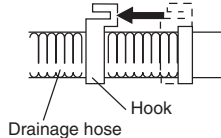
As the colors of the wires in the main lead of this appliance may not correspond with the colored marking identifying the terminals in your plug, proceed as follows.

- The wire which is colored green-and-yellow must be connected to the terminal in the plug which is marked with the letter E or by the earth symbol or colored green or green-and-yellow.
- The wire which is colored blue must be connected to the terminal which is marked with the letter N or colored black.
- The wire which is colored brown must be connected to the terminal which is marked with the letter L or colored red.

## Installing the drainage hose

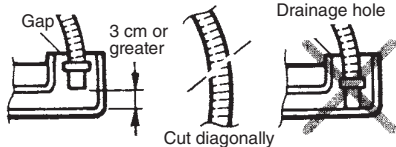
### Moving the hook

- When inserting the drainage hose into a wash pan or onto a drain pipe, the hook may be moved to facilitate the installation.
- When hooking the hose hook into the slot provided on the body of your washing machine, move the hook back to its initial position.



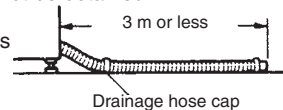
- Insert the drainage hose in as far as it will go, then use the accessory hose band to secure it tightly.
- Secure the hose tightly. An improperly secured hose may cause leakage.
- When attaching the drainage hose to a wash pan, etc., either leave a gap between the end of the hose and the adjacent surface, or cut the hose diagonally to ensure proper drainage.

※ Allowing the flat end of the hose to come in contact with the flat surface of the washing machine will impair drainage.



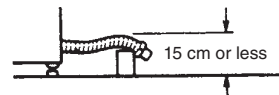
### Drainage hose extension

- Pay close attention to the height of the drainage hose and articles over which it passes. If the drainage hose is too high, proper drainage may not be obtained.
- The length of the drainage hose may be extended to as much as 3 m if kept the same level.

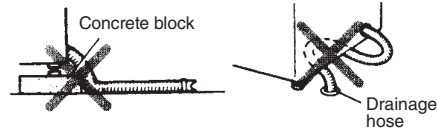


### Caution:

- If the level of the threshold and the drainage hose is high, the washing machine may not be drained.



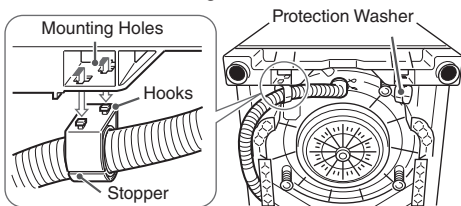
- Be careful not to rub the drainage hose. Do not insert the drainage hose under the washing machine. They may be damaged the drainage hose.



## Changing the exit of drainage hose The drainpipe can be attached on either left or right side of the machine.

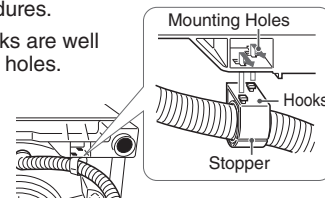
If attached on the left, please change the drainage hose according to the following procedures.

- 1 Have the machine body lie on a piece of hardboard and face down.
- 2 Remove the stopper from the base plate by pressing it inward (i.e. toward the upside of the machine) and then remove the drainage hose.



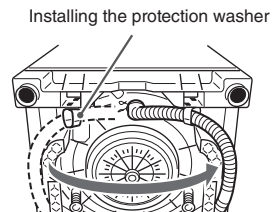
- 3 Remove the protection washer with the same procedure.
- 4 Pull the drainage hose to the left side of the machine, and insert the stopper into the mounting holes on the base plate, pulling it towards near front.
- 5 Insert the removed protection washer in Procedure 3 into the opposite mounting holes, pulling it towards near front.

- 6 Make sure that the hooks are well fixed into two mounting holes. (Please also check the status of stopper and protection washer.)



- 7 Trial operation is needed after changing the drainage hose position to detect water leakage or abnormal noise.

- Please do not loose the stopper on the drainage hose or change its position, otherwise water leakage or abnormal noise may occur.



# INSTALLATION

## Attaching the water inlet hose to the faucet

If you attach the water inlet hose completely, it may cause a water leakage.

### Faucet shape

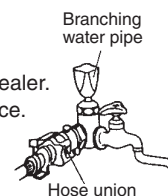
Wall-mounted faucets are best.



The distance is needed  
1.6 cm or more

### Caution

- The old inlet hose should not be reused.
- If the faucets are not suited, please contact your dealer.
- Do not connect the hot water supplying convenience.
- In order to provide a permanent source of water for your washing machine, it is suggested that a branching water pipe (available separately) be used.



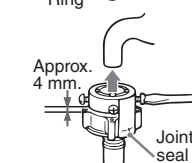
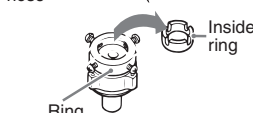
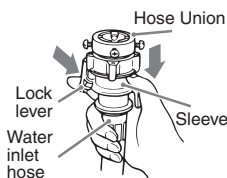
### Attaching the hose union

1 Push the lock lever of the water inlet hose. Pulling the sleeve down, lower the entire hose to disconnect the hose union.

2 Check the diameter of the faucet. When the faucet mouth is large, loose the screws and remove the inside ring to facilitate attachment.

3 Loose 4 screws of the hose union, push the hose union to the water faucet.

4 Tighten the four screws evenly around the faucet. In this time check the gap is approx. 4 mm between the nozzle and the ring.



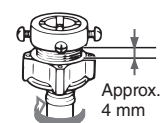
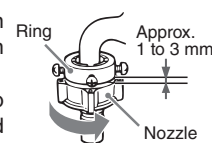
5 Remove the seal from the union and turn to the arrow destination the nozzle to tighten securely.

6 Check the gap is approx. 1 to 3 mm between the nozzle and the ring.

- If the gap is wide, it may cause the water leak.
- If it cause the water leakage during operation, tighten the nozzle more securely.

### Caution

- If you attach the hose union again because of moving house etc., loose the gap is approx. 4 mm between the nozzle and the ring. Then attach it according above methods. They are preventable the water leakage.

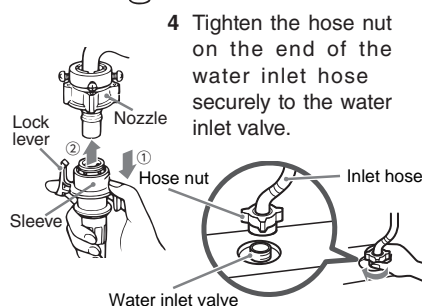


### Connecting the water inlet hose

1 Pull the sleeve down, then insert the water inlet hose.

2 Separate the sleeve until a click is heard, then push it up.

3 Check to ensure that the lock lever is hung on the nozzle. Next, check to ensure that the water inlet hose does not come off by pulling down on it.



4 Tighten the hose nut on the end of the water inlet hose securely to the water inlet valve.

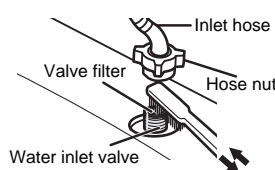
### Caution:

- Check to ensure that the water inlet hose is properly installed by turning the water on and checking for leakage. If there is leakage, connect it from the first.
- If you remove the water inlet hose after supplying water, water may splash. Refer to the following "Removing the water inlet hose".

## If the filling water becomes not good

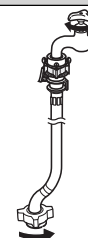
The water inlet valve may be clogged by lees or grimes.

- You should remove inlet hose and clean valve filter by brush.
- If you remove the water supply carelessly, water may splash. Therefore, use the following procedure.



### Removing the water inlet hose

- 1 Turn off the water faucet.
- 2 Press the **ON** button to open the washing machine then press the **START HOLD** button.
- 3 After water level indicator will light up, press the **OFF** button.
- 4 Loosen the hose nut and then remove inlet hose.

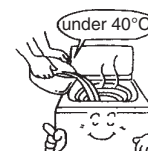


## In case of water may freeze

Drain all water from the basket, drainage hose and water inlet hose after using the machine.

### If the water is frozen

- 1 Remove the water inlet hose and pour in warm water (under 40°C).
- 2 Fill warm water (under 40°C) into the basket until the pulsator is completely covered. Leave it for 30 minutes. Then check to see whether the pulsator can be turned by hand.



# BEFORE CALLING THE SERVICEMAN

The following are not malfunction.

Course	Status	Check
During operation	Water flows out of the drainage hose when the machine is used at first time.	<ul style="list-style-type: none"> <li>Water remains during the performance test in factory.</li> </ul>
	Washing-spinning tub and pulsator do not run immediately.	<ul style="list-style-type: none"> <li>The clutch is switched.</li> </ul>
Washing	pulsator revolves before and during flowing water.	<ul style="list-style-type: none"> <li>Before flowing water → Check the weight of clothes.</li> <li>During flowing water → Dissolve detergent with high-efficiency.</li> </ul>
	Flowing water stops during washing.	<ul style="list-style-type: none"> <li>If the indicator of CONDENSED BUBBLE is lighted, water will be flowed at a low level during washing.</li> <li>If water level reduces during washing, water will be automatically added.</li> </ul>
	Beeper rings and detergent is discharged.	<ul style="list-style-type: none"> <li>When children-proof lock is set, this event will occur if the cover is opened.</li> </ul>
	Water level is not suitable for the actual weight of clothes.	<ul style="list-style-type: none"> <li>During CONDENSED BUBBLE course, water will be flowed at the same time of washing if needed. Therefore, the water level looks lower at the beginning. When the display of WATER LEVEL is flashing, it means flowing water is not yet finished.</li> <li>Water level depends on the weight of clothes. Many chemical fiber clothes or adding of soaked clothes will be regarded as heavy articles by the sensor. If the water level is not suitable, please adjust it according to the actual weight of clothes. If the water level always appears slightly less or more than the suitable amount, you may use the automatic fine setting.</li> </ul>
Rinsing	The water for final rinsing looks somewhat turbid.	<ul style="list-style-type: none"> <li>Zeolite is not the major composite of the detergent used. Under such situation, please increase rinsing frequency or switch overflow rinse into soaking &amp; rinsing.</li> </ul>
	Flowing water is not available after the start of rinsing.	<ul style="list-style-type: none"> <li>When there is no water in the washing-spinning tub, flowing water is not available from spinning course to remove the water or detergent contained in clothes. Water will be re-flowed after spinning. (If there is water in the tub, this situation will occur from draining.)</li> </ul>
	Overflow rinse mode changes into soaking & rinsing mode without any button pushing.	<ul style="list-style-type: none"> <li>When the water level is lower than 28 liters, overflow rinse will automatically switch into static rinsing.</li> <li>During spinning before overflow rinse, if the center gravity of clothes shifts, soaking &amp; rinsing will be enabled automatically.</li> </ul>
Spining	Water is not removed completely after spinning.	<ul style="list-style-type: none"> <li>Spinning performance changes according to the type of clothes.</li> <li>If you need further spinning, please run "SUPER SPIN DRY" function for 30 minutes or 60 minutes.</li> </ul>
	Spinning does not start after rinsing. The power cannot be turned on.	<ul style="list-style-type: none"> <li>When the operation is held for 30 minutes or more, spinning won't restart until the drainage valve is open. Also, a certain length of time will be reserved for safety reason to restart the operation just after holding. When the power is turned off during spinning, it cannot be turned on again until rotation of washing-spinning tub stops.</li> </ul>
	Spinning mode changes into soaking & rinsing modes without any button pushing. The washing machine is longer than usual.	<ul style="list-style-type: none"> <li>During spinning, if the center gravity of clothes shifts, soaking &amp; rinsing will be enabled automatically. Spinning will restart after overflow. This situation will also occur when the drainage hose is dirty due to powder detergent etc.</li> </ul> <p>※If the situation is not corrected after two cycles of the above operations, "E31" or "E32" will be displayed, and a warning sound will be heard at the same time.</p>



## BEFORE CALLING THE SERVICEMAN

Course	Status	Check
<b>Others</b>	<b>Remaining time appears to have changed during operation. Operation does not end within remaining time.</b>	<ul style="list-style-type: none"> <li>Remaining time displayed is only for reference. The actual time changes depending on water pressure, draining and sensor checking.</li> </ul>
	<b>“REGULAR” course is maintained even after other selection is made.</b>	<ul style="list-style-type: none"> <li>Is the indicator of CONDENSED BUBBLE still lighted?</li> <li>The “REGULAR” course at the moment will flow water to preset level before washing.</li> </ul>
	<b>The indicator of CONDENSED BUBBLE is off.</b>	<ul style="list-style-type: none"> <li>CONDENSED BUBBLE can not be enabled during “BLANKET” and “TUB CLEAN” course.</li> <li>If under “REGULAR” course, please press COURSE button to switch.</li> </ul>
	<b>Automatic shut down function does not work.</b>	<ul style="list-style-type: none"> <li>Is error information displayed? Please confirm the detail on the display.</li> </ul>
	<b>Smear on the clothes are not cleaned.</b>	<ul style="list-style-type: none"> <li>Is soap powder or liquid soap used? They tend to contaminate the washing-spinning tub, which may contaminate clothes during washing.</li> <li>Is Washing-Spinning tub cleaned after starching? Otherwise, the sticking starch may contaminate clothes during washing.</li> <li>※If such above-mentioned situation occurs, please run TUB CLEAN process.</li> </ul>
	<b>Detergent retains on the clothes or filter.</b>	<ul style="list-style-type: none"> <li>Detergent is not easy to dissolve with a low water temperature (under 10 °C). Detergent residue tends to stay if buoyant clothes of chemical fiber or heavy jeans wear are put on the upper of the washing-spinning tub, instead of the right bottom. If detergent residue is found, please increase rinsing frequency or washing the clothes with remaining water.</li> </ul>
	<b>There is bubbling noise during draining.</b>	<ul style="list-style-type: none"> <li>Either due to the air in water or from the drain hose, the noise is common.</li> </ul>
	<b>There is phut or chink during power-on or operation.</b>	<ul style="list-style-type: none"> <li>The phut produced during power-on is not abnormal.</li> <li>When the machine shifts from “WASH” to “SPIN”, some chink is produced during SUPER SPIN DRY and is normal.</li> </ul>
	<b>Water drained contains rust.</b>	<ul style="list-style-type: none"> <li>Please do not use the water until it becomes clear. If rust-contained water is used, it may cause yellow-turning of the clothes. To recover, the contaminated clothes need reverting type bleacher, which is not applicable for colorful cloth.</li> </ul>
	<b>Radio gives noise. TV gives unclear display.</b>	<ul style="list-style-type: none"> <li>Please keep the washing machine away from radio or TV with a distance of over 3 m.</li> </ul>
<b>Operating panel feels hot.</b>	<ul style="list-style-type: none"> <li>It is due to the heating of electronic components.</li> </ul>	
















# BEFORE CALLING THE SERVICEMAN

“Abnormal display of operating panel”; “interrupted operation” or “none-movement after button pressed” may be due to external noise or disturbance. If so, please unplug and re-plug the power supply before re-confirming the problem.

If the following event occurs, None operation	Sections to be checked
<b>Water leakage</b>	<ul style="list-style-type: none"> <li>• Is power supply cut?</li> <li>• Is the household circuit fuse burnt or is the circuit breaker cut?</li> <li>• Is the power plug properly connected?</li> <li>• Is the power supply on?</li> <li>• Is the “START/HOLD” button pressed?</li> <li>• Is the machine under PRESET mode?</li> </ul>
<b>Abnormal noise</b>	<ul style="list-style-type: none"> <li>• Is the structure of water tap suitable?</li> <li>• Is the drainage hose connector loose?</li> <li>• Is the water intake gate inclining or loose?</li> <li>• Is the water intake gate blocked by sundries?</li> <li>• Does the drain hose unfit its accessories?</li> <li>• Is the drain hose disconnected or broken?</li> <li>• Is the drain hose changed in a right way?</li> </ul> <div data-bbox="1015 657 1356 877"> <p>Please check.</p> </div>
<b>Large vibration</b>	<ul style="list-style-type: none"> <li>• Is the machine inclining or shaking? Instability will produce vibration or noise during spinning.</li> <li>• Is the electric wire, grounding wire or water-flowing hose touching the machine?</li> <li>• Is the base plate of the machine touching the floor? This will produce large vibration during spinning.</li> <li>• Is the center gravity of clothes shifted? This will have the tub touch the machine housing during washing or spinning, and produce large vibration during spinning.</li> <li>• Is there anything like match, ear-picking tool or metal piece carried by the clothes?</li> <li>• Is the drainage hose stopper removed from the base plate? Or is it well fixed on the base plate?</li> </ul> <div data-bbox="901 898 1388 1102"> </div>
<b>Softener overflows</b>	<ul style="list-style-type: none"> <li>• Is the drainage hose handled correctly? Please cut the hose if it is too long, it needs to be attached with sleeve at its end before using.</li> </ul> <div data-bbox="1117 1197 1291 1312"> </div>
	<ul style="list-style-type: none"> <li>• Is the softener added higher than the upper brim of the dispenser? Too much softener will overflow during washing.</li> </ul>

## BEFORE CALLING THE SERVICEMAN

When the following information is displayed

Display	Sections to be checked	
	<p><b>Is there anything uncommon related to the drainage hose?</b></p> <ul style="list-style-type: none"> <li>• Is the drainage hose well installed?</li> <li>• Is the drainage hose lying down?</li> <li>• Is the drainage hose frozen?</li> <li>• Is the drainage hose broken?</li> <li>• Is the sleeve at the end of the drainage hose immersed into water?</li> <li>• Is the drainage hose blocked by sand, mud or thread?</li> </ul>	<p>➔ • After checking, open and close the lid for once and then press  button.</p>
	<ul style="list-style-type: none"> <li>• Is the lid open?</li> </ul>	<p>➔ • Please close the lid.</p>
	<ul style="list-style-type: none"> <li>• Is the lid lock stuck with any foreign materials?</li> <li>• Is the lid completely closed?</li> <li>• Is the lid completely locked?</li> </ul>	<p>➔ • Turn the power off for checking, and then restart the machine.</p>
	<ul style="list-style-type: none"> <li>• Is the center gravity of clothes shifted?</li> <li>• Is the washing machine inclining or installed on an oblique floor?</li> </ul>	<p>➔ • Please correct the shifted or unstable position, and close the lid.</p>
	<ul style="list-style-type: none"> <li>• Is the problem similar to that of ? → Turn to the handling procedures of , if so.</li> <li>• Is the problem similar to that of ? → Turn to the handling procedures of , if so.</li> </ul>	
	<ul style="list-style-type: none"> <li>• Is water line open?</li> <li>• Is water line frozen? Is water supply cut off?</li> <li>• Is any dust attached to the mesh of water supply pipe? (When the water pressure is considerably low (3 litre/minute or less), "E5" will be displayed.)</li> </ul>	<p>➔ • After checking, open and close the lid for once, and then press the  button.</p>
	<ul style="list-style-type: none"> <li>• Is there any water in the tub during SUPER SPIN DRY?</li> </ul>	<p>➔ • Power on again, and restart SUPER SPIN DRY after draining and spinning.</p>
	<ul style="list-style-type: none"> <li>• Are the clothes wringing together?</li> <li>• Are there too many clothes in the tank?</li> </ul>	<p>➔ • Reduce some clothes, or unravel the clothes before pressing  button.</p>

※ As for information display beyond the above-mentioned details, or the above-mentioned solutions do not work, please disconnect the power plug and contact technicians for repairing.

## HANDLING METHOD FOR EMERGENCY

When the machine takes on abnormal operation, please disconnect the power plug and send it to our service agency for handling. Never disassemble the machine by yourself, for safety reasons.

## SPECIFICATIONS

Type	Fully automatic washing machine	Maximum water pressure	1.00 MPa
Washing system	Vortex system	Minimum water pressure	0.03 MPa
Rated voltage	230-240V~	Quantity of water	62 L
Frequency	50 Hz	Quantity of used water	137 L
Dimension [WxDxH]mm	600 x 569 x 960	Operation time [Wash only]	12 min
Rated capacity [Dry Clothes Weight]	9.0 kg	Operation time [Regular cycle]	50 min
Maximum rated power input	530W	IP Number	IPX4
Net weight	40 kg	Class of appliance	Class I

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