

# Instruction Manual

# HITACHI

## Washing Machine

### Fully Automatic

#### Model

SF-170THV

SF-160THV

SF-150THV



Thank you for purchasing a Hitachi fully automatic washing machine.

- Please read this Instruction Manual carefully for proper operation of the machine.
- Please keep this Instruction Manual for future reference.

#### ■ Quick access

If you would like to know the specifics of the error code, please access the barcode



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For household use only

EN

TH ONLY

# Please read this instruction manual first!

Dear Customer,






Thank you for choosing Hitachi product. We hope that you get the best results from your product which has been manufactured with high quality and state-of-the-art technology. Therefore, please read this entire instruction manual and all other accompanying documents carefully before using the product.

Follow all warnings and information in the instruction manual. Thus, you protect yourself and your product against possible dangers.

Keep the instruction manual. If you hand over the product to someone else, provide the Instruction manual as well. Warranty terms, usage and troubleshooting methods of your product are in instruction manual.

## Symbols and Definitions

The following symbols are used in the instruction manual:

	Danger that could result in death or injury.
	Important information or useful hints about usage.
	Read the instruction manual.
	Recyclable materials.
	Hot surface warning.
<b>WARNING</b>	Danger that may result in property damage to the product or its environment.

# 1. Environmentally Friendly Waste Disposal

## Disposing of the packaging

The shipping package has protected your new washing machine on its way to your home. All materials are ecologically harmless and recyclable. Please contribute to a better environment by disposing of packaging materials in an environmentally conscious manner.

Ask your dealer about current means of disposal.

### Risk of choking!

Do not let children play with packaging and associated parts.

There is a risk of suffocating with plastic bags and collapsible boxes.

## Disposing of your old appliance

You can dispose of your old appliances. Environment-conscious recycling can reclaim them to valuable new materials.

### Risk of death!

### To dispose the old appliances:

1. Unplug the power plug from appliances you are no longer using.
2. Cut off the power cord and dispose of it with the plug.

If you wish to discard this product, contact your local authorities or dealer and ask for the correct method of disposal.

## 1.1 Hints and Tips for Eco-friendly Washing

- Keep the load limit of each program.
- This washing machine features power-saving operations with a built-in inverter controller which enables the machine to optimize operations according to the conditions of your clothes.
- Add detergent according to the degree of soiling, laundry size, and water hardness. Follow the detergent manufacturer's instructions regarding the amount of detergent to use.
- You can use further enhanced water-saving technology such as "Spin Shower Rinse". Water consumption is less than the former models.

# 2. Safety Instructions

- This appliance is intended to be used in household and similar applications such as: (IEC 60335-2-7)
  - Staff kitchen areas in shops, offices and other working environments;
  - Farm houses;
  - By clients in hotels, motels and other residential type environments;
  - Bed and breakfast type environments;
  - Areas for communal use in blocks of flats or in launderettes.



### WARNING!

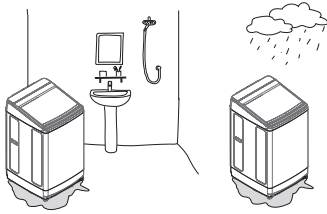
- Issues which may cause death or serious injury.

## General safety

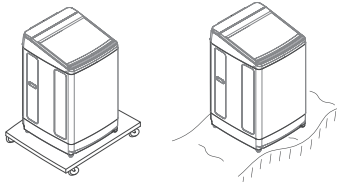
- Do not dismantle, repair or modify the washing machine. This could cause malfunction, fire, electric shock or injury. Contact your local service center for repairs.
- Do not put fire sources or anything inflammable in or near the washing machine (gas, diesel, petroleum, thinner, alcohol, or clothes stained with these substances). This could cause an explosion or fire.
- Do not pour water on the washing machine during operation. This could cause an electric shock.
- Do not climb on the washing machine. Do not place heavy object, drop any object or apply impact on the lid glass. This could cause lid glass breakage. If any scratch or breakage is found on lid glass, stop using the washing machine and contact your local service center to request inspection and repair.
- Do not forcibly open the lid during operation: Lid Lock Switch is designed to prevent from opening the lid during operation. This is because touching the washing tub while it is spinning may result in serious injury. If you can open the lid during operation, please stop using the Washing Machine immediately and refrain from touching the inside. Contact your local service center for repair.
- This appliance is not intended for use by persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge (including children) unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

## Installation

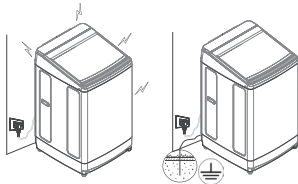
- Do not install it in a bathroom or a place exposed to rain.  
(This may cause corrosion, or current leakage and electric shock to the product)



- Do not install it on a board with castors or an uneven surface.  
(This may cause vibration and noise)



- Grounding must always be performed.

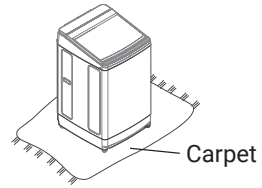


### CAUTION!

- If not grounded, current leakage, electric shock and product damage might occur.
  - Use a 3-pin socket (Line, Neutral and Ground) for connection.
  - Do not use an extension cord or double adapter.
- Use the accessory hose provided with the machine.  
(Reusing old hoses can cause water leakage and property damage)

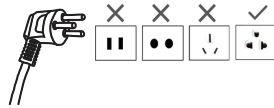


- The opening must not be obstructed by carpeting if the washing machine is installed on a carpeted floor.



## Power source and cord

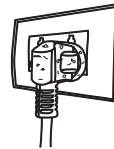
- Use an outlet and a rated voltage of 220-240V 50Hz.



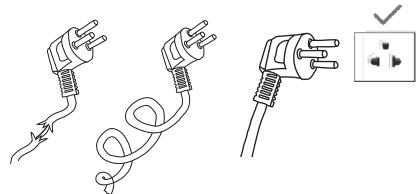
- Do not insert or remove the power plug with wet hands.  
(This could cause an electric shock)



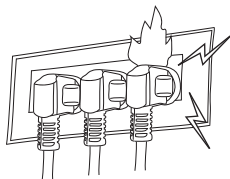
- Clean off any dust on the power plug. (It may cause a fire)



- Do not tear, cut, modify, bend, pull or fold the power cord, etc. The damaged power cord can cause fire, electric shock.



- Do not connect plugs to the same outlet and a loose, damaged one. (This may cause a short circuit or fire)



- \* If the power cord is damaged, contact a dealer or repair shop authorized by the manufacturer to replace it to avoid risks.

## Child safety

- Keep packaging out of reach of children and infants. Danger of suffocation.
- Do not let children climb onto the washing machine or to get into the tub. Do not leave boxes or chairs near the washing machine that children could use to climb onto it. This may cause injury.
- Children should be supervised to ensure that they do not play with the appliance.



### CAUTION!

- Issues which may cause injury or damage property.

## General safety

- If there is a water outage or if you are removing the water supply hose to reattach it, close the tap and press the Start/Pause button, then wait 40 seconds and slowly open the tap. Air pressure from a large amount of air in the water pipes may damage the washing machine.
- Periodically check that the union nut on the water supply hose is tight. A loose nut may cause a water leak.
- Remove the power plug from the outlet and close the water tap if you will not use the washing machine for a long time.

## Use

- All packaging materials must be removed before using the washing machine. This may cause malfunction or abnormal vibration.
- Check inside the tub before operating the washing machine. Check that no pets or small animals are in the tub.
- Do not wash items through which water does not flow easily such as raincoats, wet suits, ski suits, sleeping bags, cushions, pillows, shoes, shower

curtain. The washing machine may not work properly, or it may cause injury or damage the washing machine.

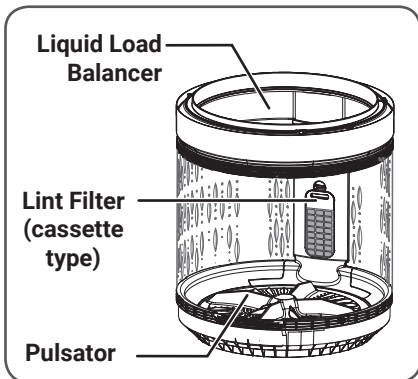
- Do not fold and stack large items such as blankets together when washing them.
  - The clothes may become off balance and cause abnormal vibration during the spin cycle, which may damage the washing machine and household goods.
- Use a laundry net for blankets when washing large items such as quilts, blankets, and sheets.
  - If you do not use the laundry net for washing, it may damage your clothes or damage the washing machine and household goods.
- Do not use a laundry net that is larger than 40cm on a side.
  - The clothes may become off balance and cause abnormal vibration during the spin cycle, which may damage the washing machine and household goods.
- Do not load laundry over the lower part of the liquid load balancer. This may cause laundry to fly out of the tub during the spin cycle and damage the clothes or the washing machine, or cause a water leak.
- Always put detergent into the detergent dispenser when washing laundry.
- Do not use water hotter than 50°C.
- Do not open the lid without using the Lid Open Button. This may cause the damage of lid and lid open button.
- Do not wash items together with coins, pins, or stones. This may damage clothes or the washing machine, or cause a water leak. Check inside pockets before washing.
- Do not press the buttons with sharp pointed objects.
- Do not put heavy objects, liquid-filled containers or equipment which produces heat on the washing machine. This may damage the washing machine or its top.

## Care and maintenance

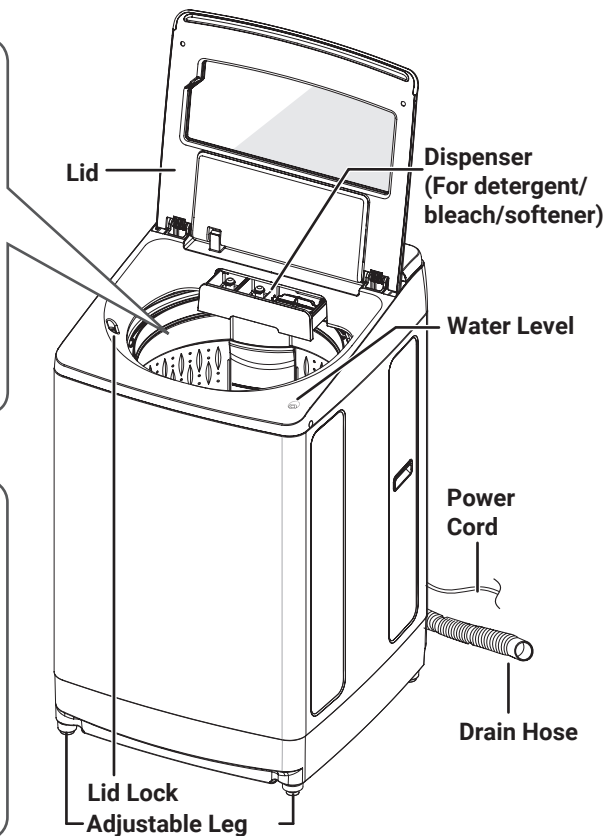
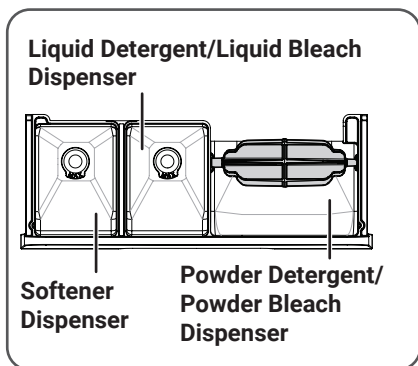
- If detergent, fabric softener or bleach spills on the surface of the machine, clean it up with a damp cloth immediately. The plastic or steel parts of the washing machine may be damaged.
- Do not place equipment that produces heat near the washing machine. This may cause deformation of the washing machine.

### 3. Parts and Accessories

#### Tub



#### Dispenser



#### Accessories

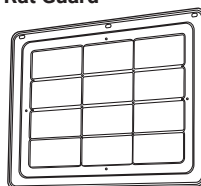
##### Water Supply Hose



(1 set)

##### Rat Guard

(2 pieces)



#### Optional accessories

##### Laundry Net



Refer to page 15  
Part number PTSF-140JJS 001

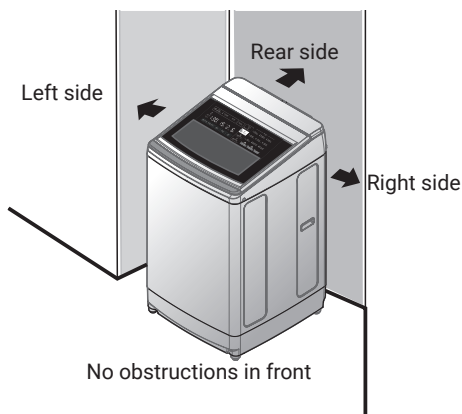
## 4. Install the Washing Machine

### Safety precautions

- Do not use a damaged power plug for your safety. Contact a repair center that is certified by the manufacturer to replace the plug.
- If the outlet you are using is a 2-pin outlet, use an adapter to change from three pins to two pins. When you do this, be sure to connect an earth wire. There are risk of electric shock, electronic substrate and electronic parts damage if you do not connect an earth wire.
- Do not connect an earth wire to a gas pipe, telephone wire, water pipe, or lightning rod. Remove the power plug from the electric outlet when you are attaching an earth wire.
- You do not need to attach an earth wire if the electric outlet is a 3-pin type with earth terminal.

### Where to install the washing machine

- The hoses may be damaged if they are frozen. Do not install the washing machine outside or any other place with a risk of freezing.
- Install the washing machine on a solid level floor to avoid excessive vibration and noise.
- Do not install the washing machine in an extremely humid place, such as a bathroom or a place exposed to rain.
- Do not install the washing machine in a slippery or unstable location. Doing so could cause abnormal vibration.
- Install the washing machine away from walls as shown below to avoid abnormal noise and vibration.
- Drain Hose can be moved by the pressure of drain water or the vibration. If the drain port is big or shallow, please fix drain hose so that it does not come off.

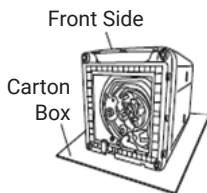


Area	Clearance (cm)
Left	1.5*
Right	1.5*
Rear	Should be 10 cm or more for the rear with the Water Supply Hose.

\* Should be 9 cm or more for the side with the drain hose.

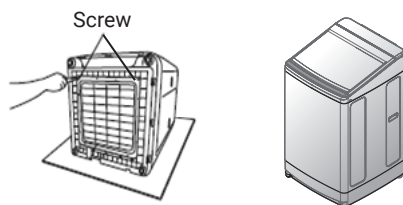
### Install The Rat Guard

1. The lay down the machine on the back side.
2. Insert the rat guard slide from upper of base same as the picture. (Rat Guard must be between the outer lock and the inner lock)



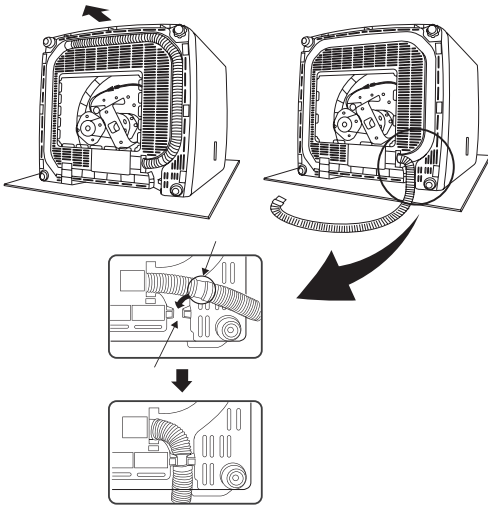
3. Put each of screw (2 position) to the rat guard and tighten them firmly.
4. Setting the washing machine.

REMARK : Screws was packing with the rat guard.

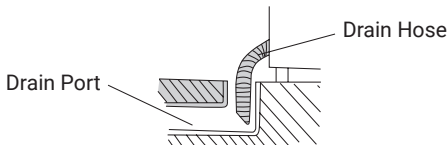


## Installing the drain hose

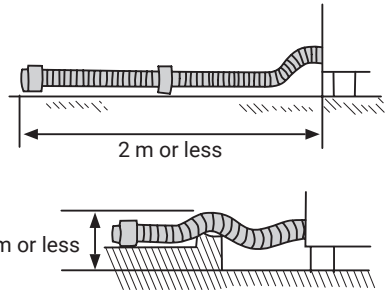
1. Lay the washing machine down on its back.
2. Pull the drain hose out of the washing machine.
3. Insert the narrow part of the drain hose into the clamp on the washing machine.
4. Stand the washing machine up.



5. Insert the end of the drain hose into the drain channel.
  - Do not allow the drain hose to be bent, twisted, pulled out and damaged, stepped on, or crimped.
  - Spread a cloth on the ground before laying the washing machine down on its back to prevent damaging it.
  - Use a knife to cut the end of the drain hose at a 45 degree angle because if the drain channel is shallow and the end of the drain hose is blocked, it could cause a malfunction.
  - If drain hose is slack inside the washing machine, it may touch other parts and get torn. The damage such as water leakage may occur.

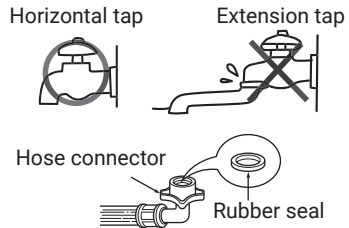


- Keep the top of the drain hose no more than 10 cm above the floor if it crosses a door sill or something else. If it is higher than this, the water has difficulty draining and a "C2" error (water does not drain) may occur.
- Do not extend the drain hose more than 2 meters from the washing machine.
- Please use the Extension Hose that is sold separately. For good draining effect, please follow below.
- In case of using the general extension hose, if inner diameter of hose is small, it cannot drain water efficiently and the unit may not work normally.



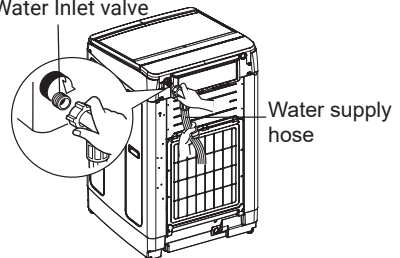
## Connecting to the tap

- Water supply hose
  - The optimum water pressure is 0.03 to 0.8 MPa.



- Check that the rubber seal is in the hose connector.

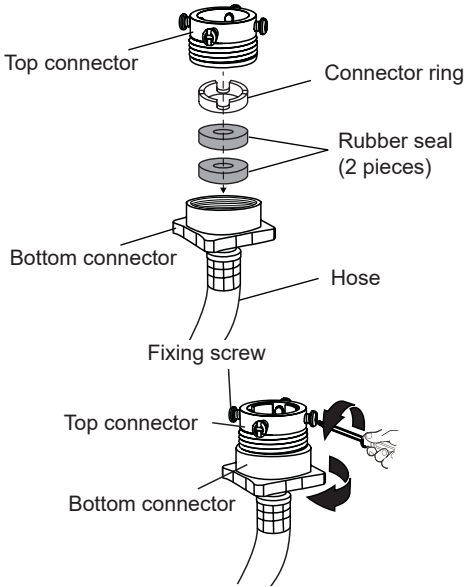
## Water Inlet valve



- Connect the water supply hose to the water supply inlet on the washing machine.



- Water supply hose with faucet connector  
Loosen the top connector.
  - If the diameter of the tap is larger than the connector ring, remove the ring.



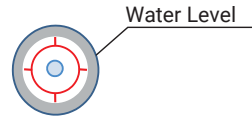
is correctly connected. If the union nut is loose, water will leak.

## Installation of Washing Machine

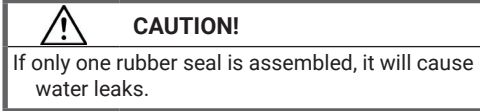
- Move the Washing Machine to the setting area.
- Connect the Washing Machine correctly to a grounded AC power supply.
- The voltage of the power supply must match the voltage rating of the Washing Machine.
- Do not use extension cords or overload the power outlet by using power strips.

### Check the horizontal level

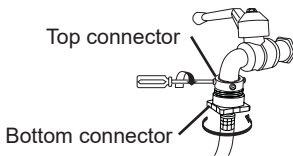
Check the "Water Level" to make sure it is level. Adjust the following condition for details how to adjust, please refer to the next section.



The water level is in the center position.



Press up on the top connector so the rubber seal and the tap are firmly sealed. Next, tighten the 4 screws.



- Rotate the bottom connector so there is no water leakage.
- To remove the water supply hose from the top connector, close the tap. Next, rotate off the bottom connector.

Attach the water supply hose by rotating the bottom connector to the top connector.

- Make sure the union nut between the water supply hose and the washing machine is firmly tightened.
- Before operating the washing machine, open the tap to confirm that the water supply hose

### ⚠ CAUTION!

The following conditions require adjustment



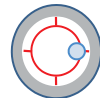
Adjust the back higher



Adjust the front higher



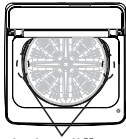
Adjust the right side higher



Adjust the left side higher

## Check the center of tub

- When the Washing Machine is leveled, please also make sure that the washing tub is positioned approximately in the center.



Check the difference between left and right

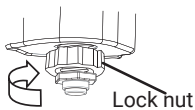
### NOTES

- If the Washing Machine is not stable or the floor itself is not leveled may cause a vibration or abnormal operation and code "C04" show on display.

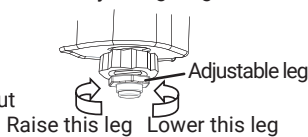
## Adjust the level

- If the Washing Machine is not stable or when the floor itself is not leveled, please adjust the leg.
  - Rotate the lock nut in the direction of the arrow to loosen it and then rotate the adjustable leg to stabilize the Washing Machine.
  - When the adjustment is finished, rotate the lock nut in the direction of the arrow to tighten it the knob to until it clicks.

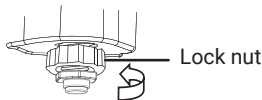
Loosen lock nut



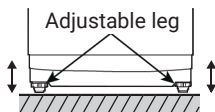
Adjust leg height



Tighten lock nut



Adjustable Leg



## Checking after installation

If any of the following problems or other abnormalities occur, immediately unplug the power plug and contact your local service center.

- The Washing Machine does not operate when the power is turned on.
- The power cord is damaged.
- There are abnormal vibrations or sounds during operation.
- There is a smell of burning.

## Customer Service

If the washing machine malfunctions, check the Instruction Manual thoroughly before you call for repairs.

If you are unable to identify or solve the problem, contact your local service center.

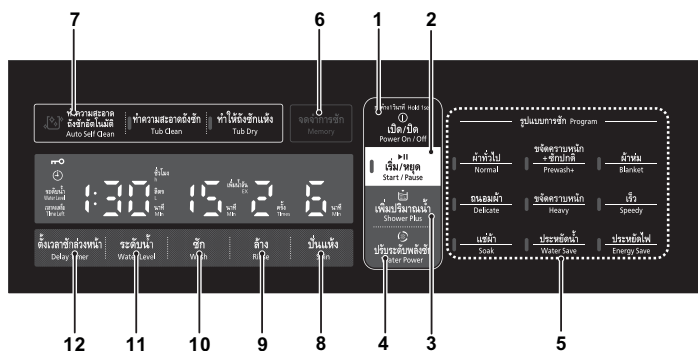
When you call the service center, you will need to tell them the model of the washing machine, describe the malfunction, and give them your address and phone number.

## 5. Control Panel and Display

### During Operation (lid closed)

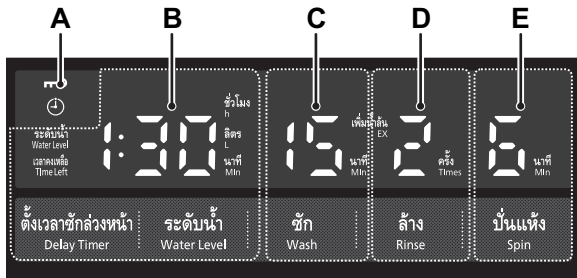
#### NOTES


- Directly touch the buttons on the Control Panel.
- If you find water drops, detergent or other foreign substances on the Glass Lid, clean them up with a dry cloth.



- 1. Power button:** To switch power on and off, press this button. (when power on, hold 1sec and display is on). The washing machine automatically switches off when operations are finished. The washing machine turns off automatically if it is not operated or you don't press any buttons for 10 minutes after the power has been turned on.
- 2. Start/Pause button:** To start or pause the operation, press this button. When the washing machine is paused for over twenty-four hours without any operations, it turns off automatically.
- 3. Shower Plus button:** To add the water shower during the operation, press this button. Extra amount of water supplied depends on load amount or program. If you want to cancel this option, press this button again. This function is available during the washing and normal rinsing processes. This button does not function if the water level has already reached at the highest level of each program.
- 4. Water Power button:** The strength of the water flow changes each time this button is pressed. Water flow strength is shown on the Water Level/Timer indicator. (0: normal, 1: strong, 2: stronger, -1: weak, -2: weaker) This function is available during the washing and normal rinsing processes.
- 5. Program button:** To select a program, press this button. The program changes each time you press the button.
- 6. Memory button (SF-170THV only):** To record your customized washing course, press this button for at least 3 seconds after selecting each detail such as water level, wash time, rinse time and spin time. From the next laundry, you can recall this memorized course just by pressing this button after turning the Washing Machine on.
- 7. Auto Self Clean button:** "Auto Self Clean" function automatically cleans both inner and outer tubs to keep the washing machine clean. This setting is switched off at the time of shipment from the factory. Once switched on, the "Auto Self Clean" function operates every time you wash your laundry.
- 8. Spin button:** To change the spin time, press this button. You can set the spin time between 1 and 9 minutes.
- 9. Rinse button:** To change the rinse time, press this button.
- 10. Wash button:** To change the washing time, press this button. You can set the washing time between 3 to 24 minutes.
- 11. Water Level button:** You can set the amount of Water each time you press the Water Level button.
- 12. Delay Timer button:** You can set the spin time between 3 and 12 hours. Lights in the Delay Timer mode. When this mode is on, Delay Timer button is lighted.

Displays all cycle information, remaining time and error codes.



- |  |   |
|--|---|
| <p>A. Lid lock : The Lid is locked when this symbol is lighted.</p> <p>B. Adjust the "Water Level" of program (shown as 'Water Level') Remaining time of the program (shown as 'Time Left')</p> | <p>C. Washing time</p> <p>D. Rinse time</p> <p>E. Spin time</p> |
|--|---|

## 6. Preparation Before Use

### 1. Preparing the laundry


- Remove foreign objects, if any (coins, safety pins, etc.).
- Put delicate clothes (knits, lingerie, etc.) in a net.
- Remove large lumps of lint, mud, sand, hair, and pet hair from laundry, if any.
- Tie strings and close fasteners, if applicable.


### 2. Sorting the laundry

- Sort laundry according to the fabric type and care label symbols (cottons, blended fabrics, synthetics, wool, hand washable items, etc.).
- Do not wash extremely small loads, such as only a pair of jeans.
  - This may cause abnormal vibration during the spin cycle.
- Separate colored and white items.

### Detergents and additives

- Use an appropriate amount of detergent according to the detergent indicator of the washing machine. The type and amount of detergent vary depend on the fabric type, volume, load size, degree of soiling, and hardness of the water used.
  - Use less detergent if:
    - The load is small.
    - The laundry is not very dirty.
- Too much detergent may result in excess foam, which reduces rinse efficiency or may cause a water leak.
- Depending on the detergent brand, detergent may not dissolve completely in the detergent tray if the water pressure is low or the water is too cold.
  - Page 25: Care and Maintenance
- When using softeners or bleaches, follow the instructions on the package.

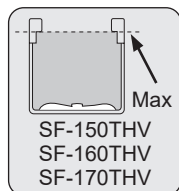
 <p><b>WARNING!</b></p>
<p>Do not wash the following items through which water does not flow easily, because doing so creates abnormal vibration during the spin cycle and may cause injury or malfunction.</p> <ul style="list-style-type: none"> <li>– Waterproof items, such as a wet suit, ski suit, shower curtain, etc.</li> <li>– Items with non-slip rubber backing such as door mats.</li> <li>– Cushions, pillows, shoes, etc.</li> </ul>

 <p><b>INFORMATION</b></p>
<ul style="list-style-type: none"> <li>• If water pressure is unstable during operation, it may cause the water remaining in Detergent and Softener box.</li> </ul>

## 7. Using the Washing Machine

### 1. Sort the laundry

- Sort the laundry according to the type of fabric, care label symbol, and degree of soiling.
  - Page 12: Preparing the laundry
- Do not exceed the maximum load.
- Laundry shall not exceed this line. Otherwise, laundry may jump out from the washing tub while spinning and it may cause damage.



### 2. Press the Power button to turn on the power

- If no program is selected within 10 minutes, the washing machine automatically switches itself off.

Press the Power button again to turn on the power.



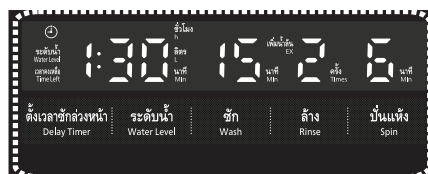
### 3. Select and adjust the program

- Select a program with the Program button.
  - Page 18: List of Programs
- You can change the combination or settings of wash, rinse, and spin operations by the Wash, Rinse, and Spin buttons.
- You can activate the “Auto Self Clean” function by the Auto Self Clean button.
  - Page 14: Auto Self Clean function
  - Once switched on, the “Auto Self Clean” function operates every time you do your laundry. To deactivate, press the same button again while the power is on.

### Set the operations



Select a function.



Change the combination or settings of Wash, Rinse, and Spin.



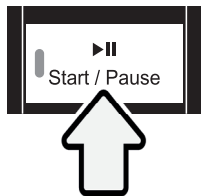
Select a program.

### 4. Put detergent into the detergent dispenser and close the lid

- Open the detergent dispenser, add the amount of detergent shown on the package, and then close the detergent dispenser.
- The amount of detergent is based on a single 35-gram scoop of powder detergent. Since the required amount of detergent varies depending on the type of detergent, follow the instructions on the package of detergent.
- For liquid detergent, follow the instructions on the package and add it to the liquid detergent/liquid bleach dispenser.
- Add softener to the softener dispenser according to the instructions on the package of softener. Then, softener shall be added to the tub automatically before the final rinse.
- For liquid bleach, follow the instructions on the package and add it to the liquid detergent/liquid bleach dispenser.
- The speed that the lid closes may vary, depending on the temperature; however, this is not an abnormality.

## 5. Press the Start/Pause button

- Before operation starts, the laundry is weighted. Then, the necessary amount of detergent and water shall be displayed.



### 5.1 Pausing a program

Press the Start/Pause button. The washing machine will switch itself off if it is not restarted within 24 hours.

### 5.2 Adding clothes partway through a program

Press the Start/Pause button to pause operation and add your clothes. The lid is locked while the tub is spinning, so wait until the tub stops completely and the lid lock is automatically released. After adding the clothes, close the lid and press the Start/Pause button to restart the operation.

- \* Note: It is not recommended to add a large amount of clothes as the washing machine first measures the load size to determine optimum operation.

### 5.3 Adding water partway through a program

Press the Shower Plus button to add water. To stop adding, press the same button again. If the water level is already at the maximum level, water cannot be added anymore.



#### INFORMATION

- This function cannot operate in the Tub Dry, Tub Clean, Blanket and Water Save Programs.

### 5.4 Changing strength of water flow:

Press the Water Power button.

You can repeatedly press the button to adjust the strength through five levels.

- \* Note: This function operates in the Normal, Prewash+, Delicate, Speedy, Soak, and Water Save courses for washing and normal rinsing programs.

Depending on the program, maximum/minimum water power you can change with this button is different. Also, when a load amount is large, changes of water strength might not always visibly distinctive.

## 5.5 Terminating a program:

Press the Start/Pause button, then press the Power button to turn off the power.

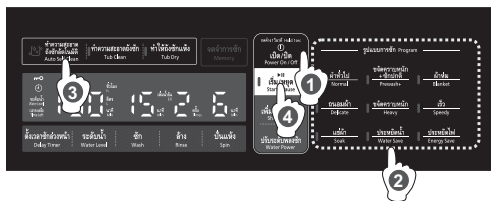
## 6. Take out the laundry (End of the program)

- The alarm sounds when a program ends.
  - The alarm can be deactivated or the sound can be changed in 5 types if the button of Water Level is pressed for at least 3 seconds. Melody 1(initial setting)> Melody 2> Melody 3> Mono 1> Mono 2> No Alarm
- The washing machine automatically switches off when the operations are finished. Open the lid and take out the laundry to dry.

## Using the Functions

### Auto Self Clean function

1. To turn on the power, press the Power button.
2. Select a program.
3. Press the Auto Self Clean button.
4. Press the Start/Pause button.



- When the “Auto Self Clean” function is running, about 14 more minutes and 10 more liters of water are needed.
- This setting is switched off at the time of shipment from factory. Once activated, the “Auto Self Clean” function operates every time you do your laundry.
- Prior to the final spin cycle, the outside of the tub, the back side of the pulsator, and the inside of the outer tub are washed to eliminate dirt and mold.
- To deactivate the “Auto Self Clean” function, press the Auto Self Clean button again while the power is on.



## INFORMATION

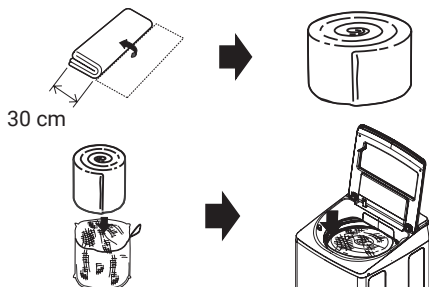
- Runs just before the spin cycle begins in each program,
  - Runs even when the washing machine has started operation from rinsing,
  - Cannot be set or cancelled during operation,
  - Automatically cancelled when:
    - The spin time is manually set to 1 minute.
    - Spin-only operation is set.
    - No spinning is set.
  - May not wash some dirt depending on the type and degree of dirt,
  - May not wash some dirt If the washing machine is seldom used.
- To clean the tub more completely, we recommend using the Tub Clean program or “Auto Self Clean” function.
  - The “Auto Self Clean” function is deactivated when one of the following programs is selected.
    - Blanket
    - Tub Dry
    - Tub Clean
  - When the “Auto Self Clean” function is running, some water may flow out from the softener dispenser. This is the normal operation of the washing machine and does not indicate a malfunction.

## Blanket program

1. Prepare the laundry.
- Use a laundry net for blankets when washing large items such as quilts, blankets, and sheets.

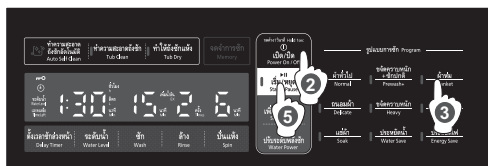
### NOTES

- If you do not use the laundry net for washing, it may damage your clothes or damage the washing machine, household goods and code “C04” show on display.
- Fold large items such as quilts, blankets, and sheets as follows and put them in the laundry net.



(Laundry net: Product number PTSF-140JJS 001)

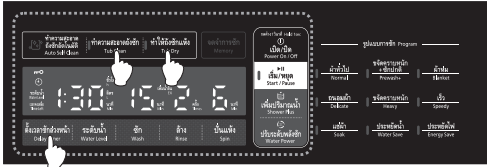
2. To turn on the power, press the Power button.
3. Select the Blanket program.
4. Add detergent and close the lid.
5. Press the Start/Pause button.



## INFORMATION

- Water temperature setting cannot be changed when this program is selected.

## Tub Dry program / Tub Clean program / Delay Timer function



### Tub Dry program



#### INFORMATION

- Use this program separately from other washing programs. Do not put laundry into the tub.

1. To turn on the power, press the Power button.
2. Select the Tub Dry program.
3. Close the lid and press the Start/Pause button.
  - The tub spins quickly as same as the regular spin cycle to remove the water from the tub.

### Tub Clean program



#### INFORMATION

- Use this program separately from other washing programs. Do not put laundry into the tub.

1. To turn on the power, press the Power button.
2. Select the Tub Clean program.
3. Close the lid, and press the Start/Pause button. The washing machine starts pouring water into the tub. (Close the lid when C3 is displayed)
4. Press the Start/Pause button and open the lid, add tub cleaner to the tub by following the instruction given on its package. (Liquid peroxide-based bleach is also effective as a tub cleaner. Since the required amount of bleach varies depending on the type, follow the instructions given on its package.)

- The Tub Clean program can be set to 3 or 11 hours. At first, "11 hours" is set. Press the Program button again to set "3 hours".
- Water is added to the maximum level to wash away invisible dirt from both outer and inner tubs. Then, normal rinse operation will be performed twice to flush out any remaining dirt and tub cleaner.

### Delay Timer function

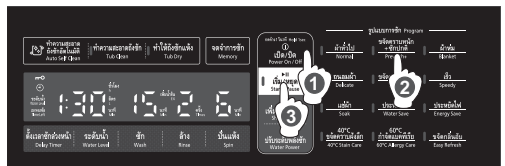
1. To turn on the power, press the Power button.
2. Select a program.

3. Press the Delay Timer button and select the time to finish washing. Each press of the button starting from 3 hours to 12 hours later.
4. Press the Start/Pause button.
5. Add detergent and close the lid. The power turns off after a short time.
6. Operations finish at the set time.
  - The Delay Timer is unavailable for the Blanket, Tub Dry, and Tub Clean programs.
  - To change the setting, press the Power button and do the settings again.
  - If there is a power outage while the timer is set, the timer setting is cancelled. If this happens, press the Power button again and reset the timer.
  - To prevent your laundry from wrinkling, take them out from the Washing Machine to dry once the operation is completed.

### Prewash+ program

- You can wash your heavily soiled laundry first, then add the regular laundry to wash off all together at a time. With a guidance of Beep sound which is generated in about 20 minutes after starting the operation, put additional laundry and detergent.
  - \* Recommended amount of heavily soiled laundry is less than 2 kg.
  - Additional amount of regular laundry should be less than 8 kg.

1. To turn on the power, press the Power button.
2. Select the Prewash+ program.
3. Press the Start/Pause button.
4. When the Beep sounds, open the lid to add the Laundry and Detergent. Then close the lid.



### Others:

- Please put additional laundry and detergent within 15 minutes after the Beep sounds. If 15 minutes elapse from Beep sounds, operation restarts automatically.
- In this case, rinsing starts without adding washing cycle.




## 8. Program Overview

Program	Type of Laundry / Notes	Model / Max Load		
		170THV	160THV	150THV
Normal	For daily washing of cotton and linen items such as shirts, underwear, towels, bed linen and table linen.	17 kg	16 kg	15 kg
Prewash+	To wash heavily soiled laundry first, then add the regular laundry to wash off all together at a time.	10 kg	10 kg	10 kg
Delicate	Gentle washing program for delicate items such as lingerie and thin lace curtains.	8.5 kg	8 kg	7.5 kg
Speedy	Washing small loads of lightly soiled clothes and small items such as underwear.	8.5 kg	8 kg	7.5 kg
Soak	For washable large items and heavily soiled durable clothes.	13.6 kg	12.8 kg	12 kg
Blanket	For washable large items such as duvets, blankets, bedspreads, etc.	3 kg	3 kg	3 kg
Energy Save	Eco operation by saving energy while assuring the same washing performance as the Normal program.	17 kg	16 kg	15 kg
Water Save	Eco operation by saving water while assuring the same washing performance as the Normal program.	17 kg	16 kg	15 kg
Heavy	To wash heavily soiled durable clothes (jeans, sportswear, etc.)	17 kg	16 kg	15 kg

# List of Programs

 : Default settings

 : Changeable settings (via corresponding button)

Program		Normal	Prewash+		Delicate
			Pre	Add	
Maximum load	170THV	17 kg	2 kg	8 kg	8.5 kg
	160THV	16 kg	2 kg	8 kg	8 kg
	150THV	15 kg	2 kg	8 kg	7.5 kg
Amount of water	170THV	33 to 107 L (adjusted automatically)	33 to 68 L	95 L	61 L
		33 to 107 L		-	47 to 88 L
	160THV	33 to 105 L (adjusted automatically)	33 to 68 L	94 L	61 L
		33 to 105 L		-	47 to 88 L
	150THV	33 to 103 L (adjusted automatically)	33 to 68 L	93 L	61 L
		33 to 103 L		-	47 to 88 L
Wash	15 min		45 min		6 min
	3, 9, 12, 15, 18, 24 min, or none		-		-
Rinse	Spin Shower Rinse 2 times + Normal Rinse 1 time (In case of laundry exceeds 80%, the process will be Spin Shower Rinse 1 time and Normal Rinse 1 time.)		Normal Rinse 2 times		Normal Rinse 1 time
	Each time you press the Rinse button, the setting changes in sequence from Normal Rinse 2 times, Water-Injection Rinse 2 times, Normal Rinse 3 times, Water-Injection Rinse 3 times, none, Normal Rinse 1 time, or Water-Injection Rinse 1 time		Each time you press the Rinse button, the setting changes in sequence from Normal Rinse 1 time, Water-Injection Rinse 1 time, Normal Rinse 2 times, Water-Injection Rinse 2 times, Normal Rinse 3 times, Water-Injection Rinse 3 times, or none		
Spin	Time	6 min			3 min
		1, 3, 6, 9 min, or none			1, 3, 6, 9 min, or none
Required time (guide)	170THV	46 to 79 min	63 to 99 min		35 min
	160THV	46 to 79 min	63 to 99 min		35 min
	150THV	46 to 79 min	63 to 99 min		35 min

Program		Speedy	Soak				Blanket
			0.5 hrs	1 hrs	3 hrs	5 hrs	
Maximum load	170THV	8.5 kg	13.6 kg				3 kg
	160THV	8 kg	12.8 kg				3 kg
	150THV	7.5 kg	12 kg				3 kg
Amount of water	170THV	54 L	33 to 107 L (adjusted automatically)				107 L
		33 to 88 L	33 to 107 L				88 to 107 L
	160THV	54 L	33 to 105 L (adjusted automatically)				107 L
		33 to 88 L	33 to 105 L				88 to 107 L
	150THV	54 L	33 to 103 L (adjusted automatically)				107 L
		33 to 88 L	33 to 103 L				88 to 107 L
Wash		3 min	30 min	60 min	180 min	300 min	25 min
		3, 9, 12, 15, 18, 24 min, or none	-	-	-	-	-
Rinse		Normal Rinse 1 time	Normal Rinse 2 times				Normal Rinse 2 times
		Each time you press the Rinse button, the setting changes in sequence from Normal Rinse 1 time, Water-Injection Rinse 1 time, Normal Rinse 2 times, Water-Injection Rinse 2 times, Normal Rinse 3 times, Water-Injection Rinse 3 times, or none	Each time you press the Rinse button, the setting changes in sequence from Normal Rinse 2 times, Water-Injection Rinse 2 times, Normal Rinse 3 times, Water-Injection Rinse 3 times, or none, Normal Rinse 1 time, or Water-Injection Rinse 1 time				-
Spin	Time	3 min	6 min				9 min
		1, 3, 6, 9 min, or none	1, 3, 6, 9 min, or none				
Required time (guide)	170THV	31 min	70 to 83 min	100 to 113 min	220 to 233 min	340 to 353 min	77 min
	160THV	31 min	70 to 83 min	100 to 113 min	220 to 233 min	340 to 353 min	77 min
	150THV	31 min	70 to 83 min	100 to 113 min	220 to 233 min	340 to 353 min	77 min

Program		Energy Save	Water Save	Heavy
Maximum load	170THV	17 kg	17 kg	17 kg
	160THV	16 kg	16 kg	16 kg
	150THV	15 kg	15 kg	15 kg
Amount of water	170THV	33 to 107 L (adjusted automatically)	33 to 101 L (adjusted automatically)	33 to 107 L (adjusted automatically)
		33 to 107 L	33 to 101 L	33 to 107 L
	160THV	33 to 105 L (adjusted automatically)	33 to 100 L (adjusted automatically)	33 to 105 L (adjusted automatically)
		33 to 105 L	33 to 100 L	33 to 105 L
	150THV	33 to 103 L (adjusted automatically)	33 to 98 L (adjusted automatically)	33 to 103 L (adjusted automatically)
		33 to 103 L	33 to 98 L	33 to 103 L
Wash		48 min	15 min	18 min
		-	3, 9, 12, 15, 18, 24 min, or none	12, 15, 18, 21, 24 min, or none
Rinse	170THV	Normal Rinse 2 times	Water-Injection Rinse 2 times	Normal Rinse 2 times
	160THV			
	150THV			
	170THV	-	Each time you press the Rinse button, the setting changes in sequence from Normal Rinse 2 times, Water-Injection Rinse 2 times, Normal Rinse 3 times, Water-Injection Rinse 3 times, none, Normal Rinse 1 time, or Water-Injection Rinse 1 time	
	160THV			
	150THV			
Spin	Time	5 min	6 min	6 min
		-	1, 3, 6, 9 min, or none	
Required time (guide)	170THV	88 to 100 min	42 to 75 min	52 to 78 min
	160THV	83 to 100 min	42 to 75 min	52 to 78 min
	150THV	83 to 100 min	42 to 75 min	52 to 78 min





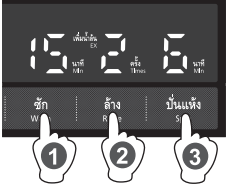

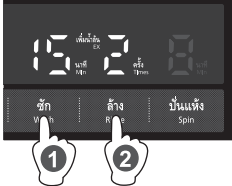

## List of Programs









- The wash time and the spin time may change during the program depending on the weight and type of laundry being washed.
- The displayed times are guidelines. More time may be required depending on the water pressure and the type of laundry.
- Programs cannot be changed once they are started. To change them, turn the power off and then on again to re-select a program.
- When the “Auto Self Clean” function is running, about 14 more minutes and 10 more liters of water are needed.
- We do not recommend using fabric softener when the Water Save program is selected.
- The Water Save program cycle is the recommended program cycle for a normally soiled load of laundry at the rated capacity.
- Spin Shower Rinse\* is used in the Normal and Energy Save programs to enhance water-saving performance without compromising the efficiency of rinsing.  
\* Spin Shower Rinse: A powerful shower and centrifugal force to rinse the detergent more effectively.
- The clear part of the lid and control panel may become foggy or may form dew on the edge of lid if you use hot water to wash your laundry; however, this is not an abnormality. Wipe it off after washing your laundry.
- Depending on the type of clothes, maximum loading amount may differ.
- Even if you set the delay timer, it may start soon according to the required time of the program.
- Water flow is adjusted automatically according to the amount of load and water level. When loads are heavy and water level is high, water flow is adjusted at slower rate to maintain the performance of washer.
- Amount of detergent is indicated according to following table as a guide.

Load (guide)	Water Level	Amount of detergent	Model
8~17 kg	88~107 L	72 g	SF-170THV
8~16 kg	88~105 L		SF-160THV
8~15 kg	88~103 L		SF-150THV
4~7 kg	68~82 L	46~55 g	
0~3 kg	33~61 L	22~41 g	

\* The amount of detergent is based on a type of “20-gram per 30-liter”.  
Since the required amount of detergent varies depending on the type of detergent, follow the instructions on the package of detergent.

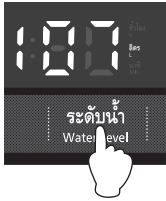
# How to Customize the Program

If you want...	To customize the wash program	To reuse the wash water and separate your laundry	To not spin the laundry because you are worried about wrinkles
Operations	Wash ⇨ Rinse ⇨ Spin	Wash only	Wash ⇨ Rinse
Setting method			
1. 	Turn on the power.		
2. 	Select the Normal program.		
3. 	Set the amount of water. If you do not set the amount of water, it is set automatically based on the weight of the laundry.		
4.  <p>Set the operations</p>	 <ol style="list-style-type: none"> <li>① Set the wash time with the Wash button.</li> <li>② Set the number and type of rinses with the Rinse button.</li> <li>③ Set the spin time with the Spin button.</li> </ol>	 <ol style="list-style-type: none"> <li>① Set the wash time with the Wash button.</li> </ol>	 <ol style="list-style-type: none"> <li>① Set the wash time with the Wash button.</li> <li>② Set the number and type of rinses with the Rinse button.</li> </ol>
5. 	To start, press the Start/Pause button.		
Remarks	Operates according to the wash, rinse, and spin settings.	Stops while the wash water is still in the tub.	Stops while the rinse water is still in the tub.

If you want...	To rinse only	To rinse and spin	To drain and spin	
Operations	Rinse only	Rinse ⇨ Spin	Drain ⇨ Spin	
Setting method				
1.		Turn on the power.		
2.		Select the Normal program.		
3.		Set the amount of water. If the amount of water is not set, then maximum water level is used.	Cannot be used.	
4.	 <p>Set the operations</p>	 <p>① Set the number and type of rinses with the Rinse button.</p>	 <p>① Set the number and type of rinses with the Rinse button. ② Set the spin time with the Spin button.</p>	 <p>① Set the spin time with the Spin button.</p>
5.		To start, press the Start/Pause button.		
Remarks	Drains water and spins before rinsing. Stops while the rinse water is still in the tub.	Drains water and spins before rinsing.	Drains water and spins.	

## Water Level

- Press the Water Level button until your desired setting of wash, rinse and spin are displayed. If the indicator is not lit, that operation is not performed.



- You can set the amount of water each time you press the Water Level button.  
**SF-170THV** : 33 to 107  
**SF-160THV** : 33 to 105  
**SF-150THV** : 33 to 103

## Washing Time

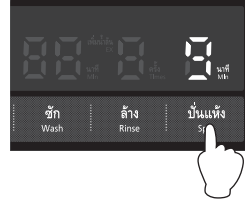
- You can set the wash time each time you press the Wash button in a range from 3 to 24 minutes and no washing.



- You can set the number and type of rinses by pressing the Rinse button. Each time you press the Rinse button the setting changes in sequence, from Water-Injection Rinse 2 times, Normal Rinse 2 times, Water-Injection Rinse 1 time, Normal Rinse 1 time, no rinsing, Water-Injection Rinse 3 times, Normal Rinse 3 times.



- You can set the spin time each time you press the Spin button in a range of 1 to 9 minutes and no spinning.



## In Case of Power Outage If there is a power outage

The washing machine is equipped with a restart function.

If a power outage occurs while the washing machine is operating, the cycle (i.e., wash, rinse, or spin) at that time is saved, and when the power is restored, automatically restart from the interrupted cycle.

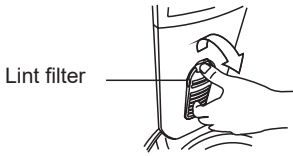
If there is a power outage during the spin cycle, the lid is locked and cannot be opened. After the power is restored, the lock is released.



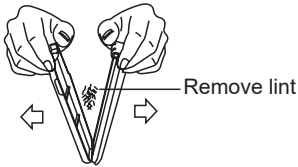
## 9. Care and Maintenance

### Cleaning the lint filter (cassette type)

1. Press down on the knob on the top of the lint filter (cassette type) and pull it towards you.



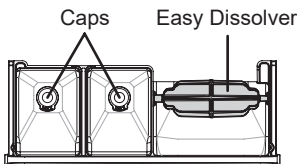
2. Open the lint filter (cassette type) to the sides and remove the lint that is inside.



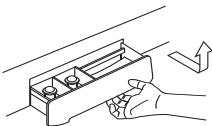
3. Reverse the procedure to replace the lint filter (cassette type).



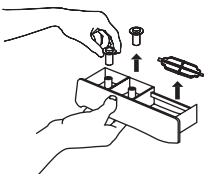
### Cleaning the dispenser



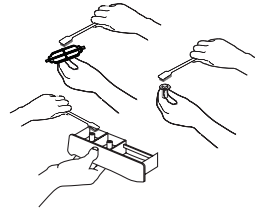
1. Pull the dispenser and tilt it upwards to remove it.



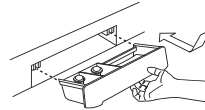
2. Pull the caps and Easy Dissolver.



3. Clean with some tool such as brush.



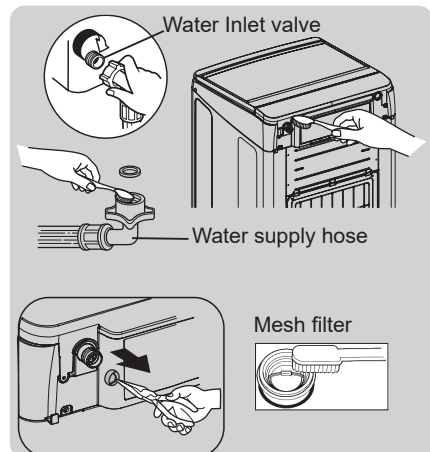
4. To remount, tilt the dispenser, align the rib to guide and insert it.



- When you replace the caps, press it until it stops completely. If it is not pressed all the way in, the softener, liquid detergent and liquid bleach will not be added to the tub completely and some will remain in the dispenser.

### Cleaning the water supply inlet

1. Close the tap.
2. Disconnect the water supply hose from the top of the washing machine. (Water in the hose may be drained when you disconnect the hose.)
3. Use a brush or something to clean the water inlet valve of the washing machine.
4. Use pliers to pull out the mesh filter from inside the water inlet valve.
5. Use a soft brush to clean the mesh filter with running water.
6. Reinsert the mesh filter. Make sure it is tightened against water leaks.
7. To replace the water supply hose reverse the procedure.



## Care and maintenance of the washing machine

- Clean the machine body.
- Wipe the outside of the washing machine with a soft cloth. Do not use solvents such as alcohol or benzine.
- If you use a chemically treated cloth, use it according to the instructions given for the product.
- If detergent or softener gets on the washing machine, quickly wipe it off. The surface could be damaged.

## 10. Troubleshooting

### Washing Machine fails to operate.

- Is the power plug not inserted in the power outlet?
  - Insert in the power outlet.
- Is there a power outage?
  - Check your other product in your home.
- Is the Delay Timer set?
  - Please check this function.

### Washing Machine is wet, even though it is the first time to use it (drain hose, tub, etc.)

- At factory, we are checking the actual performance of each product before shipment. Some water drops might remain in the product, but this is not a malfunction. We ask for your kind understanding.
  - Please clean with a soft cloth and use “Tub Dry” function for Tub drying.

### The remaining time increases during operation

- Is remaining time adjusted to compensate for the speed of the incoming water?
  - Adjust water volume to high speed.

### Water is added again during the washing process

- Is water added automatically up to the set water level if the water level falls because water is absorbed by the laundry?
  - To keep the preset water level, water may be added during operation.

### Wash time is longer than the time that was set manually

- Is the water pressure low?
  - The operating time may increase due to a longer water supply time, depending on the pressure level of tap water.

### The washing machine stops during the spin cycle and starts adding water

- Are loaded clothes unbalanced?
  - If the laundry is extremely off balance when the spin cycle starts, the spin cycle stops and the rinse cycle starts to rebalance the laundry. After the load is rebalanced, the spin cycle starts again.

### The lid does not open

- Is the lid locked?
  - When the lid lock indicator is on, lid is still locked for your safety.
  - Cannot be opened because there was a power outage or the power was turned off while the lid lock indicator was lit. Turn on the power and wait for the lock to be released.

### Washing Machine is a vibration and noise


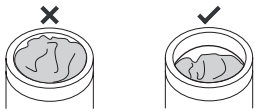

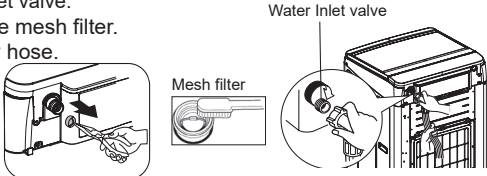

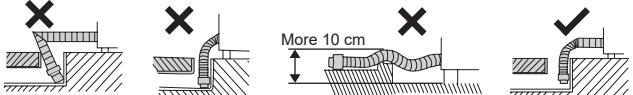

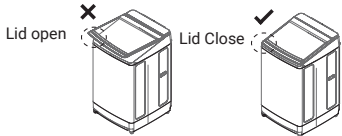

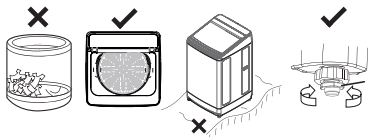

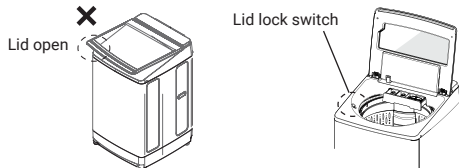

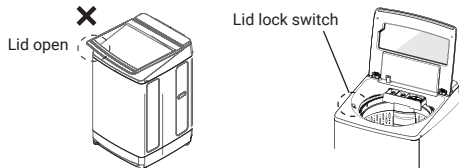

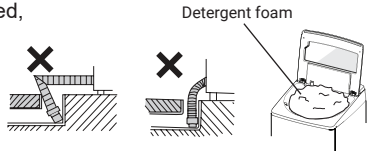
- Washing Machine is not stable or the floor itself is not leveled.
  - Please check the level, please refer to page 9.

### Error code does not disappear

- Are you taking appropriate action?
  - Various causes are possible, Please refer to page 27.
  - If that does not solve the problem, please access the barcode below.



# 11. Error Codes

Error code	Things to check and solutions
<p><b>E0</b></p> <p>Overloaded Laundry</p> 	<ul style="list-style-type: none"> <li>- Check if the laundry is overloaded.           <ul style="list-style-type: none"> <li>• Decrease the amount of laundry.</li> </ul> </li> </ul> 
<p><b>E1</b></p> <p>Water cannot supplied</p> 	<ul style="list-style-type: none"> <li>- Check the water Inlet valve.</li> <li>- Check and clean the mesh filter.</li> <li>- Check water supply hose. Open the faucet ?</li> </ul> 
<p><b>E2</b></p> <p>Water cannot drain</p> 	<ul style="list-style-type: none"> <li>- Check the drain hose and its end.</li> </ul> 
<p><b>E3</b></p> <p>The tub cannot spin</p> 	<ul style="list-style-type: none"> <li>- Check if the lid is open.           <ul style="list-style-type: none"> <li>• Close it completely.</li> </ul> </li> </ul> 
<p><b>E4</b></p> <p>The tub unbalanced</p> 	<ul style="list-style-type: none"> <li>- Check if the laundry is all on one side of the tub.           <ul style="list-style-type: none"> <li>• Balance the laundry evenly.</li> </ul> </li> <li>- Check if the machine is on a slanted, unlevelled floor.           <ul style="list-style-type: none"> <li>• Adjust its legs, please refer to page 9.</li> </ul> </li> </ul> 
<p><b>E8</b></p> <p>The lid cannot be locked</p> 	<ul style="list-style-type: none"> <li>- Check if the lid is open.           <ul style="list-style-type: none"> <li>• Close it completely.</li> </ul> </li> <li>- Check if the switch is pressed.</li> </ul> 
<p><b>E9</b></p> <p>The lid lock cannot be released</p> 	
<p><b>Eh</b></p> <p>The spinning speed cannot reach the specified value.</p> 	<ul style="list-style-type: none"> <li>- Check if the drain hose is clogged, Install the drain hose correctly.</li> <li>- Check if there is too much detergent foam.           <ul style="list-style-type: none"> <li>• Rinse once and dehydrate by manual.</li> </ul> </li> </ul> 

• If warning sign such as "F0", "F9"...etc. are shown in the display, stop operating the washer immediately and contact an authorized service dealer or a service agent for inspection and repairing.

## 12. Specifications

<b>Power supply</b>	See the rating plate on the back of the washing machine.
<b>Standard water level</b> (maximum water level)	107 L (SF-170THV) 105 L (SF-160THV) 103 L (SF-150THV)
<b>Standard amount of water used</b> (Normal program)	195 L (SF-170THV) 190 L (SF-160THV) 185 L (SF-150THV)
<b>Water pressure</b>	0.03 to 0.8 MPa (0.3 to 8 Kgf/cm <sup>2</sup> )
<b>Dimensions</b>	Width 640 mm x Depth 684 mm x Height 1087 mm (SF-170THV, SF-160THV, SF-150THV)
<b>Weight</b>	48 kg (SF-170THV, SF-160THV, SF-150THV)

### Sales and Service Center

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