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.
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
Old appliances are not worthless rubbish. Environment-conscious recycling can reclaim them to valuable new materials.

⚠️ Risk of death!
Unplug the power plug from appliances you are no longer using. 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.

Hints and Tips for Eco-friendly Washing

■ Keep the load limit of each program.
■ 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 may enjoy further enhanced water-saving technology such as “Spin Shower Rinse” with this Washing Machine: water consumption is less than the former models.
Safety Instructions

This washing machine is designed for home use only.
Before operating the washing machine, please read these safety instructions carefully.

⚠️ WARNING
Issues which could 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 the washing machine in an extremely humid place, such as a bathroom or a place exposed to rain.
   → Risk of fire, electric shock, current leakage, corrosion or product damage.

■ Do not install the washing machine on a board with castors or on an unstable surface.
   → This may cause injury or malfunction due to abnormal vibration.

■ The washing machine must be grounded if you use a two-pin plug adapter on the three-pin plug.
   → Failing to do so could cause an electric shock, electronic substrate and electronic parts damage.

■ Use a new water supply hose to connect the washing machine to the water tap.
■ The opening must not be obstructed by carpeting if the washing machine is installed on a carpeted floor.

Power source and cord

■ Do not insert or remove the power plug with wet hands.
   → This could cause an electric shock.

■ Use the rated voltage. Do not connect other devices to the same outlet.
   → Using the washing machine and other electric appliances on the same outlet may cause the plug to overheat and result in fire.

■ Clean off any dust on the power plug.
   → A dirty or dusty plug may cause a fire.

■ Do not use an electric socket or outlet that is damaged or loose.
   → This could cause an electric shock, short circuit, or fire.

■ Do not damage, cut, modify, bend, or fold the power cord.
   → This could damage the power cord and cause a fire or electric shock.

■ Do not use an extension cord on the power cord.
   → This could cause an overheating or fire.

■ If the power cord is damaged, it must be replaced by a service agent or repair shop authorized by the manufacturer to avoid risks.
Safety Instructions

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 could 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 could 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 could 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 could cause injury or damage the washing machine.
- Do not fold and stack large items such as blankets together when washing them.
- 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.
- Do not load laundry over the lower part of the liquid load balancer (dotted line).
  → Doing so could 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 50ºC.
- 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.
Parts and Accessories

Tub

- Liquid Load Balancer
- Lint Filter (cassette type)
- Pulsator

Dispenser

- Liquid Detergent/Liquid Bleach Dispenser
- Softener Dispenser
- Powder Detergent/Powder Bleach Dispenser
- Dispenser (For detergent/bleach/softener)
- Lid
- Power Cord
- Drain Hose
- Adjustable Foot

Accessories

<table>
<thead>
<tr>
<th>Water Supply Hose and One-touch Joint</th>
<th>Foot Caps</th>
<th>Rat Guard</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1 set)</td>
<td>(2 pieces)</td>
<td>(2 pieces)</td>
</tr>
</tbody>
</table>

Optional accessories

- Laundry Net
  Refer to page 12
  Part number PTSF-140JJS 001
### Control Panel and Display

#### During Operation (lid closed)

<table>
<thead>
<tr>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>■ Directly touch the buttons on the Control Panel with your bare finger.</td>
</tr>
<tr>
<td>■ If you find water drops, detergent or other foreign substances on the Glass Lid, please clean them up with a dry cloth.</td>
</tr>
</tbody>
</table>

![Image of Control Panel and Display](image)

| 1 Power button | Press this button to switch power on and off (when power on, please hold 1sec and display [HELLO] is on). The washing machine automatically switches off when operations are finished. The washing machine also turns off automatically if it is not operated or no button is pressed for 10 minutes after the power has been turned on. |
| 2 Start/Pause button | Press this button to start or pause the operation. When the washing machine is paused for over twenty-four hours without any operations, it turns off automatically. |
| 3 Program button | Press this button to select the program. The program changes each time the button is pressed. |
| 4 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. |
| 5 Spin button | Press this button to change the spin time. The spin time can be set between 1 and 9 minutes. |
Control Panel and Display

During Operation (lid closed)

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>6</strong> Rinse button</td>
<td>Press this button to change the rinse time.</td>
</tr>
<tr>
<td><strong>7</strong> Wash button</td>
<td>Press this button to change the washing time. The washing time can be set between 3 to 24 minutes.</td>
</tr>
<tr>
<td><strong>8</strong> Water Level button</td>
<td>You can set the amount of Water each time you press the Water Level button.</td>
</tr>
<tr>
<td><strong>9</strong> Delay Timer button</td>
<td>The delay time can be set between 3 and 12 hours. Lights in the Delay Timer mode. When this mode is on, Delay Timer button is lighted.</td>
</tr>
</tbody>
</table>

Displays all cycle Information, remaining time and error codes.

![Control Panel and Display Diagram]

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A</strong></td>
<td>Lid lock : The Lid is locked when this symbol is lighted.</td>
</tr>
</tbody>
</table>
| **B** | Adjust the “Water Level” of program (shown as ‘Water Level’)  
Remaining time of the program (shown as ‘Time Left’) |
| **C** | Time of the Wash. |
| **D** | Time of the Rinse. |
| **E** | Time of the Spin. |
Preparation Before Use

Preparation of 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.

Sorting of the laundry

- Sort laundry according to the type of fabric 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.

⚠️ Risk of injury!

Do not wash the following items through which water does not flow easily, because doing so creates abnormal vibration during the spin cycle and could cause injury or malfunction.

- Waterproof items, such as a wet suit, ski suit, shower curtain, etc.
- Items with non-slip rubber backing such as door mats.
- Cushions, pillows, shoes, etc.

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 type of fabric, 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 can 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 23: Care and Maintenance

- When using softeners or bleaches, follow the instructions on the package.

* If water pressure is unstable during operation, it may cause the water remaining in Detergent and Softener box.
How to Use the Washing Machine

1 Sort the laundry
   - Sort the laundry according to the type of fabric, care label symbol, and degree of soiling.
     → Page 8: Preparation of 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 16: 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 11: How to use the “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

4 Press the Start/Pause button
   - Before operation starts, the laundry is weighted. Then, the necessary amount of detergent and water shall be displayed.
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.

| Pausing a program: | Press the Start/Pause button. The washing machine will switch itself off if it is not restarted within 1 hour. |
| 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. |
| Terminating a program: | Press the Start/Pause button, then press the Power button to turn off the power. |
How to Use the Washing Machine

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 2 types if the button of Water Level is pressed for at least 3 seconds.

Melody *initial setting | Sound normal | No alarm

■ The washing machine automatically switches off when the operations are finished. Open the lid and take out the laundry to dry.

How to use the “Auto Self Clean” function

1 Press the Power button to turn on the power.
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 20 more minutes and 21 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.

- The “Auto Self Clean” function runs just before the spin cycle begins in each program.
- The “Auto Self Clean” function runs even when the washing machine has started operation from rinsing.
- The “Auto Self Clean” function cannot be set or cancelled during operation.
- The “Auto Self Clean” function is automatically cancelled when:
  - The spin time is manually set to 1 minute.
  - Spin-only operation is set.
  - No spinning is set.
- Depending on the type and degree of dirt, some dirt may not be washed with the “Auto Self Clean” function.
- If the washing machine is seldom used, some dirt may not be washed with the “Auto Self Clean” function.
- To clean the tub more completely, we recommend using the Tub Clean program along with the “Auto Self Clean” function.

■ The “Auto Self Clean” function is deactivated when one of the following programs is selected.
  - Blanket
  - 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.
How to Use the Washing Machine

How to use the Blanket program

1. Prepare the laundry.

- Fold large items, such as quilts or blankets, as follows. They should not be taller than 30 cm after they are folded.

If it exceeds 30 cm, use a laundry net, which is sold separately.
(Laundry net: Product number PTSF-140JJS 001)

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

3. Select the Blanket program.

4. Add detergent and close the lid.

5. Press the Start/Pause button.

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

Items you can wash with the Blanket program are as follows:

- Washable quilts
  Blanket can be washed without laundry net when its size is:
  150 cm x 200 cm or smaller, and less than 1.5 kg
  Blanket should be washed in the laundry net when its size is:
  Bigger than 150cm x 200cm up to 174cm x 225cm, heavier than 1.5kg up to 2.0kg
  (Laundry net: Product number PTSF-140JJS 001)

- Washable blankets
  Up to 3 kg of synthetic blankets that are labeled as hand washable.
  - For electric blankets, follow the instructions for the electric blanket.

- Other washable items
  Mattress pads labeled as hand washable.

- Do not fold and stack large items together (such as sheets) when washing them.
  → The clothes may become off balance and cause abnormal vibration during the spin cycle.
How to Use the Washing Machine

How to use the Tub Clean program

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

  1. Press the Power button to turn on the power.
  2. Select the Tub Clean program.

- 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”.

  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.)

- 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.

How to use the Delay Timer

  1. Press the Power button to turn on the power.
  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. Load laundry following the load size specified by each program. Press the Start/Pause button.
  5. Add detergent and close the lid. The display will turn off and show symbol.
  6. Operations finish at the set time.

- The Delay Timer is unavailable for the Blanket 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.
How to Use the Washing Machine

How to use the 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 2kg.
  Additional amount of regular laundry should be less than 8kg.

---

**Operation:**

1. Press the Power button to turn on the power.
2. Select the Prewash+ program.
3. Load laundry. Press the Start/Pause button.
4. Put the detergent and close the lid.
5. When the Beep sounds, open the lid to add the 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.
<table>
<thead>
<tr>
<th>Program</th>
<th>Type of Laundry / Notes</th>
<th>Model / Max Load</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normal</td>
<td>For daily washing of cotton and linen items such as shirts, underwear, towels, bed linen and table linen.</td>
<td>14 kg</td>
</tr>
<tr>
<td>Prewash+</td>
<td>You can wash your heavily soiled laundry first, then add the regular laundry to wash off all together at a time.</td>
<td>10 kg</td>
</tr>
<tr>
<td>Blanket</td>
<td>For washable large items such as duvets, blankets, bedspreads, etc.</td>
<td>3 kg</td>
</tr>
<tr>
<td>Delicate</td>
<td>This is a gentle wash program for delicate items such as lingerie and thin lace curtains.</td>
<td>7 kg</td>
</tr>
<tr>
<td>Speedy</td>
<td>This program lets you wash small loads of lightly soiled clothes and small items such as underwear.</td>
<td>7 kg</td>
</tr>
<tr>
<td>Energy Save</td>
<td>This program provides an Eco operation by saving energy while assuring the same washing performance as the Normal program.</td>
<td>14 kg</td>
</tr>
</tbody>
</table>
## List of Programs

<table>
<thead>
<tr>
<th>Program</th>
<th>Normal</th>
<th>Prewash+</th>
<th>Blanket</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Pre</td>
<td>Add</td>
</tr>
<tr>
<td>Maximum load</td>
<td></td>
<td>14 kg</td>
<td>2 kg</td>
</tr>
<tr>
<td>Amount of water</td>
<td></td>
<td>35 to 90 L (adjusted automatically)</td>
<td>35 to 60 L</td>
</tr>
<tr>
<td></td>
<td></td>
<td>35 to 90 L</td>
<td>-</td>
</tr>
<tr>
<td>Wash</td>
<td></td>
<td>15 min</td>
<td>45 min</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3, 9, 12, 15, 18, 24 min, or none</td>
<td>-</td>
</tr>
<tr>
<td>Rinse</td>
<td></td>
<td>Spin Shower Rinse 1 time + Normal Rinse 1 time</td>
<td>Normal Rinse 2 times</td>
</tr>
<tr>
<td></td>
<td></td>
<td>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</td>
<td>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</td>
</tr>
<tr>
<td>Spin</td>
<td>Time</td>
<td>6 min</td>
<td>9 min</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1, 3, 6, 9 min, or none</td>
<td>1, 3, 6, 9 min, or none</td>
</tr>
<tr>
<td>Required time (guide)</td>
<td></td>
<td>39 to 60 min</td>
<td>55 to 90 min</td>
</tr>
</tbody>
</table>
## List of Programs

<table>
<thead>
<tr>
<th>Program</th>
<th>Delicate</th>
<th>Speedy</th>
<th>Energy Save</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Maximum load</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>140TE</td>
<td>7 kg</td>
<td>7 kg</td>
<td>14 kg</td>
</tr>
<tr>
<td><strong>Amount of water</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>140TE</td>
<td>55 L</td>
<td>50 L</td>
<td>35 to 90 L (adjusted automatically)</td>
</tr>
<tr>
<td></td>
<td>45 to 75 L</td>
<td>35 to 75 L</td>
<td>35 to 90 L</td>
</tr>
<tr>
<td><strong>Wash</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>6 min</td>
<td>3 min</td>
<td>18 min</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3, 9, 12, 15, 18, 24 min, or none</td>
<td>3, 9, 12, 15, 18, 24 min, or none</td>
</tr>
<tr>
<td><strong>Rinse</strong></td>
<td>Normal Rinse 1 time</td>
<td>Normal Rinse 1 time</td>
<td>Spin Shower Rinse 2 times + Normal Rinse 1 time</td>
</tr>
<tr>
<td></td>
<td>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</td>
<td>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</td>
<td>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</td>
</tr>
<tr>
<td><strong>Spin</strong></td>
<td>Time</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 min</td>
<td>3 min</td>
<td>6 min</td>
</tr>
<tr>
<td></td>
<td>1, 3, 6, 9 min, or none</td>
<td>1, 3, 6, 9 min, or none</td>
<td>1, 3, 6, 9 min, or none</td>
</tr>
<tr>
<td><strong>Required time (guide)</strong></td>
<td>140TE</td>
<td>33 min</td>
<td>40 to 60 min</td>
</tr>
<tr>
<td></td>
<td>33 min</td>
<td>33 min</td>
<td></td>
</tr>
</tbody>
</table>
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 20 more minutes and 21 more liters of water are needed.

- 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 slightly 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.

<table>
<thead>
<tr>
<th>Load (guide)</th>
<th>Water Level</th>
<th>Amount of detergent</th>
</tr>
</thead>
<tbody>
<tr>
<td>8~14 kg</td>
<td>75~90 L</td>
<td>49~60 g</td>
</tr>
<tr>
<td>4~7 kg</td>
<td>55~70 L</td>
<td>36~47 g</td>
</tr>
<tr>
<td>0~3 kg</td>
<td>35~50 L</td>
<td>23~34 g</td>
</tr>
</tbody>
</table>

* 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

<table>
<thead>
<tr>
<th>If you want...</th>
<th>To customize the wash program</th>
<th>To reuse the wash water and separate your laundry</th>
<th>To not spin the laundry because you are worried about wrinkles</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operations</td>
<td>Wash ⇒ Rinse ⇒ Spin</td>
<td>Wash only</td>
<td>Wash ⇒ Rinse</td>
</tr>
</tbody>
</table>

## 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. **Set the operations**
   - 1. Set the wash time with the Wash button.
   - 2. Set the number and type of rinses with the Rinse button.
   - 3. Set the spin time with the Spin button.

5. **Press the Start/Pause button to start.**

## 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.
How to Customize the Program

<table>
<thead>
<tr>
<th>If you want...</th>
<th>To rinse only</th>
<th>To rinse and spin</th>
<th>To drain and spin</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Operations</strong></td>
<td><strong>Rinse only</strong></td>
<td><strong>Rinse ⇒ Spin</strong></td>
<td><strong>Drain ⇒ Spin</strong></td>
</tr>
</tbody>
</table>

**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. Set the operations:
   - Set the number and type of rinses with the Rinse button.
   - Set the spin time with the Spin button.

5. Press the Start/Pause button to start.

**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.
How to Customize the Program

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.

SF-140TE

You can set the amount of water each time you press the Water Level button in a range from 35 to 90 L.
How to Customize the Program

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

- 24 Min
- 18 Min
- 15 Min
- 12 Min
- 9 Min
- 3 Min
- 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.

- Ex 3
- 3
- Ex 2
- 2
- Ex 1
- 1
- No rinsing

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

- 9 Min
- 6 Min
- 3 Min
- 1 Min
- 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 operation, the lid is locked and cannot be opened. After the power is restored, the lock is released.
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 off 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 supply inlet of the washing machine.
4. Reverse the procedure to replace the water supply hose.

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.
<table>
<thead>
<tr>
<th>Problem</th>
<th>Thing to check</th>
<th>Instructions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Washing Machine fails to operate.</td>
<td>Is the power plug not inserted in the power outlet?</td>
<td>Insert in the power outlet.</td>
</tr>
<tr>
<td></td>
<td>Is there a power outage?</td>
<td>Check your other product in your home.</td>
</tr>
<tr>
<td></td>
<td>Is the Delay Timer set?</td>
<td>Please check this function.</td>
</tr>
<tr>
<td>Washing Machine is wet, even though it is the first time to use it (drain hose, tub, etc.)</td>
<td>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.</td>
<td>Please clean with a soft cloth and use “Spin” (6 min) function for Tub drying.</td>
</tr>
<tr>
<td>The remaining time increases during operation</td>
<td>Is remaining time adjusted to compensate for the speed of the incoming water?</td>
<td>Adjust water volume to high speed.</td>
</tr>
<tr>
<td>Water is added again during the washing process</td>
<td>Is water added automatically up to the set water level if the water level falls because water is absorbed by the laundry?</td>
<td>To keep the preset water level, water may be added during operation.</td>
</tr>
<tr>
<td>Wash time is longer than the time that was set manually</td>
<td>Is the water pressure low?</td>
<td>The operating time may increase due to a longer water supply time, depending on the pressure level of tap water.</td>
</tr>
<tr>
<td>The washing machine stops during the spin cycle and starts adding water</td>
<td>Are loaded clothes unbalanced?</td>
<td>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.</td>
</tr>
<tr>
<td>The lid does not open</td>
<td>Is the lid locked?</td>
<td>When the lid lock indicator is on, lid is still locked for your safety.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>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.</td>
</tr>
</tbody>
</table>
## Error Codes

<table>
<thead>
<tr>
<th>Error code</th>
<th>Description</th>
<th>Things to check</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1</td>
<td>Water is not supplied</td>
<td>Is the tap open?</td>
<td>Check the tap, water supply inlet filter, water pipes, and water supply hose.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Has dirt collected in the water supply inlet filter?</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Is the water pipes or water supply hose frozen?</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Has the water supply been disrupted?</td>
<td></td>
</tr>
<tr>
<td>C2</td>
<td>Water does not drain</td>
<td>Is the drain hose blocked?</td>
<td>Check the drain hose and the drain outlet.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Is the drain hose twisted, crushed, or frozen?</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Is the drain hose connected correctly?</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Is the drain outlet too high?</td>
<td></td>
</tr>
<tr>
<td>C3</td>
<td>The tub does not spin</td>
<td>Is the lid open?</td>
<td>Close the lid.</td>
</tr>
<tr>
<td>C4</td>
<td></td>
<td>Is the laundry all on one side of the tub?</td>
<td>Add a few more items to wash. (If there is only one item in the tub, it is likely to become unbalanced.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Does the laundry include too many thick items like cotton blankets or jeans or too many large items like sheets?</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Is the washing machine wobbling, or is the floor under the washing machine slanted?</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Are there any unwashable things in the tub?</td>
<td>Page 8: Preparation of the laundry (sorting the laundry)</td>
</tr>
<tr>
<td>C8</td>
<td>The lid cannot be locked</td>
<td>Is the lid closed?</td>
<td>Check that the lid is completely closed. Check that there are no foreign objects in the lock switch.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Are there any foreign objects in the lock switch?</td>
<td></td>
</tr>
<tr>
<td>C9</td>
<td>The lid lock cannot be released</td>
<td>Are there any foreign objects in the lock switch?</td>
<td>Turn the power off and then on again and wait a little while. If the lid is still locked, contact a service center for repair.</td>
</tr>
<tr>
<td>Ch</td>
<td>The spinning speed does not reach the specified value.</td>
<td>Check if there is too much detergent?</td>
<td>Check the amount of powder detergent used. Check the drain hose and its installation.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Check if the drain hose is clogged?</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Check if the drain hose is installed correctly?</td>
<td></td>
</tr>
</tbody>
</table>

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 further inspection and/or repairing.
How to 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.

![Diagram of washing machine and clearance areas](image)

<table>
<thead>
<tr>
<th>Area</th>
<th>Clearance (cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left</td>
<td>1.5*</td>
</tr>
<tr>
<td>Right</td>
<td>1.5*</td>
</tr>
<tr>
<td>Rear</td>
<td>Should be 10 cm or more for the rear with the Water Supply Hose.</td>
</tr>
</tbody>
</table>

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

How to use Plug Spacer

- In rare cases, there may have no electricity if equipment is plugged into old type outlet. In this case, please use plug spacer.

1. Set the Plug Spacer to the plug pins as shown.
2. Press the Plug Spacer to the root of the plug pins.
3. Plug in the equipment.

*Notice : Plug Spacer is not needed if there is electricity in equipment.
How to Install the Washing Machine

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.
   - 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.

How to Install The Rat Guard

1. Lie down the machine on the back side.
   - To prevent scratch, please place the machine on carton box.
2. Install a rat guard to the machine (align the hole of rat guard with the hole of machine base).
3. Put each of screw (2 positions) to the rat guard and tighten them firmly.
4. Setting the washing machine.

REMARK : Screws were packing with the rat guard.
How to Install the Washing Machine

Connecting to the tap

- Water supply hose

The optimum water pressure is 0.03 to 0.8 MPa.

**Horizontal tap**

- Extension tap

**Water Inlet valve**

- Water supply hose

**Hose connector**

- Rubber seal

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

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

**Water supply hose with one-touch joint**

1. Loosen the top connector.

- Fixing screw
- Rubber seal
- Top connector
- Bottom connector
- Connector ring

- If the diameter of the tap is larger than the connector ring, remove the ring.

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

- Top connector
- Bottom connector
- Rubber seal

- Rotate the bottom connector so there is no water leakage.
- Close the tap so you can remove the water supply hose from the bottom connector. Next, pull off the hose and lower the clasp.

3. Attach the water supply hose to the bottom connector and lower the clasp.

- Slide bushing

- 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 is correctly connected. If the union nut is loose, water will leak.
How to Install the Washing Machine

1. 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.

2. Check the horizontal level
   According to the figure on the right, check the level by using a simple jig which can be made with string, pen and weight such as coin.
   - If the gap between A and \( \text{A} \) are same, your Washing Machine is well leveled (± 5mm).

3. Check 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.

4. 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.
   - Note: Failing to do so may cause a vibration or abnormal operation.

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.

Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>SF-140TE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power supply</td>
<td>See the rating plate on the back of the washing machine.</td>
</tr>
<tr>
<td>Standard water level</td>
<td>90 L (maximum water level)</td>
</tr>
<tr>
<td>Standard amount of water used</td>
<td>178 L (Normal program)</td>
</tr>
<tr>
<td>Water pressure</td>
<td>0.03 to 0.8 MPa (0.3 to 8 Kgf/cm²)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>Width 640 mm x Depth 684 mm x Height 1087 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>46 kg</td>
</tr>
</tbody>
</table>