

## Operating & Installation Instructions

Fully Automatic Washing Machine  
(Household Use)

Model No. **NA-FD165V3**  
**NA-FD145V3**



### Contents

|                                      |    |
|--------------------------------------|----|
| <b>Safety Precautions</b>            | 2  |
| <b>Part Names / Accessories</b>      | 6  |
| <b>Before Washing</b>                | 7  |
| <b>Operation Panel</b>               | 8  |
| <b>Washing</b>                       | 9  |
| <b>Variety of Programs</b>           | 10 |
| <b>Detergent / Softener / Bleach</b> | 12 |
| <b>Washing Options</b>               | 14 |
| • Preset                             |    |
| • Wash / Rinse / Spin                |    |
| • Delicates                          |    |
| • Blanket                            |    |
| • Stain Master +                     |    |
| • Air Dry (90 min)                   |    |
| • ECONAVI                            |    |
| <b>Convenient Functions</b>          | 18 |
| <b>Contents of Programs</b>          | 19 |
| <b>Maintenance</b>                   | 20 |
| <b>Installation</b>                  | 24 |
| <b>Error Display</b>                 | 28 |
| <b>Troubleshooting</b>               | 30 |
| <b>Specifications</b>                | 32 |

**Thank you for purchasing this product.**

- Read these instructions carefully for optimum performance and safety before use.
- Keep this manual for future reference.

AWW9901CFSC0-0C0

A0724-0(S)

Printed in Vietnam

07-2024



# Safety Precautions

## **WARNING**

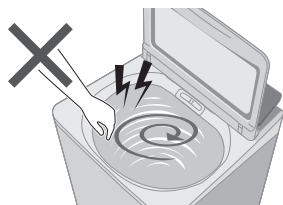
### May cause serious injury or death.

#### Children must not use it alone.

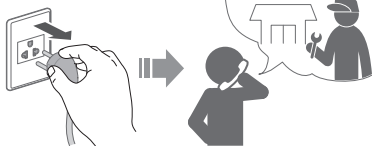


- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.

#### Do not touch the tub until it stops.



- If the tub does not stop within 15 sec:

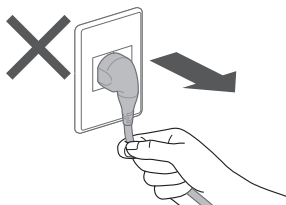


### May cause fire or electric shock.

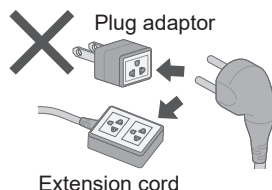
#### Do not touch it with wet hands.



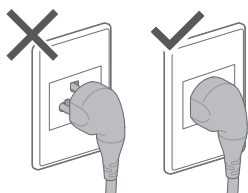
#### Do not hold or pull on the cord.



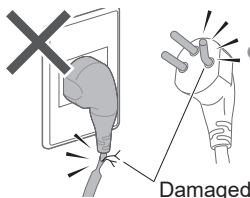
#### Do not use.



#### Fully insert it.

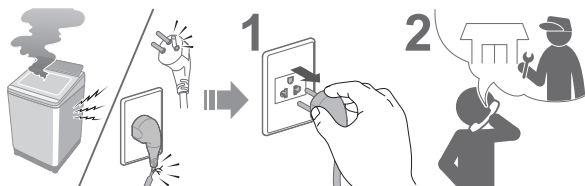


#### Do not use.

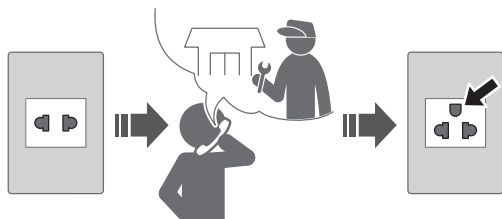


- If the power cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

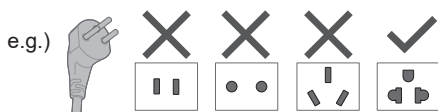
**In case of failure or damaged power cord, stop use and ask the service centre.**



**Securely insert the ground prong.  
Call your local dealer for a new socket.**

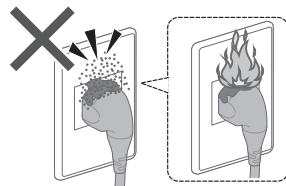


**Use a socket appropriate for this appliance.**



- The plug shape, socket shape and rating requirement varies with the region.

**Accumulated dust may cause fire.**



**Wipe the power plug periodically.**



**Keep away from flammable materials.**



**May cause failure.**

**Never disassemble, repair or modify it by yourself.**

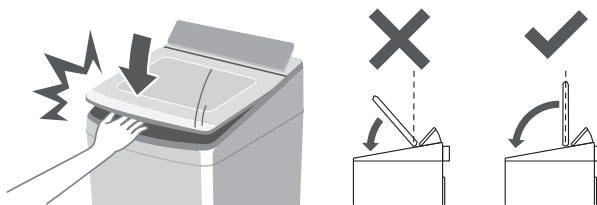


# Safety Precautions (continued)

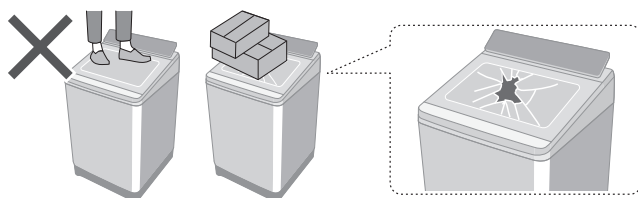
## CAUTION

### May cause injury.

**Be careful not to get your fingers caught.**



**Do not climb or put objects on the appliance.**

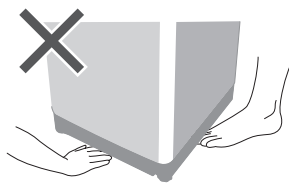


- If the lid is broken, immediately stop using.

**Do not touch when it is hot.**

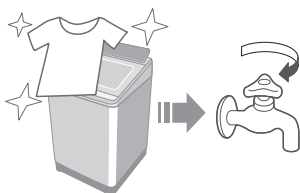


**Be careful of your hands and feet.**

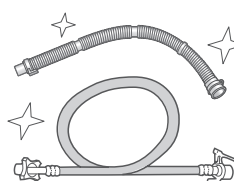


### May cause water leakage.

**Turn off the water faucet.**



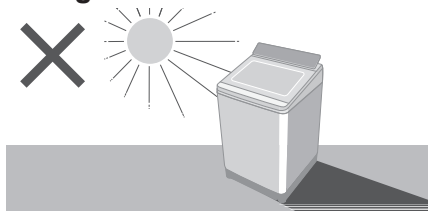
**Use new hose-sets.**



- New hose-sets supplied with the appliance are to be used and old hose-sets should not be reused.

## May cause failure.

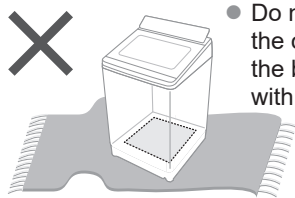
**Keep away from heat and direct sunlight.**



**Do not wash waterproof items.**

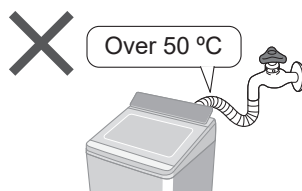


**Do not obstruct.**



- Do not obstruct the openings of the bottom face with carpet, etc.

**Do not use hot water.**



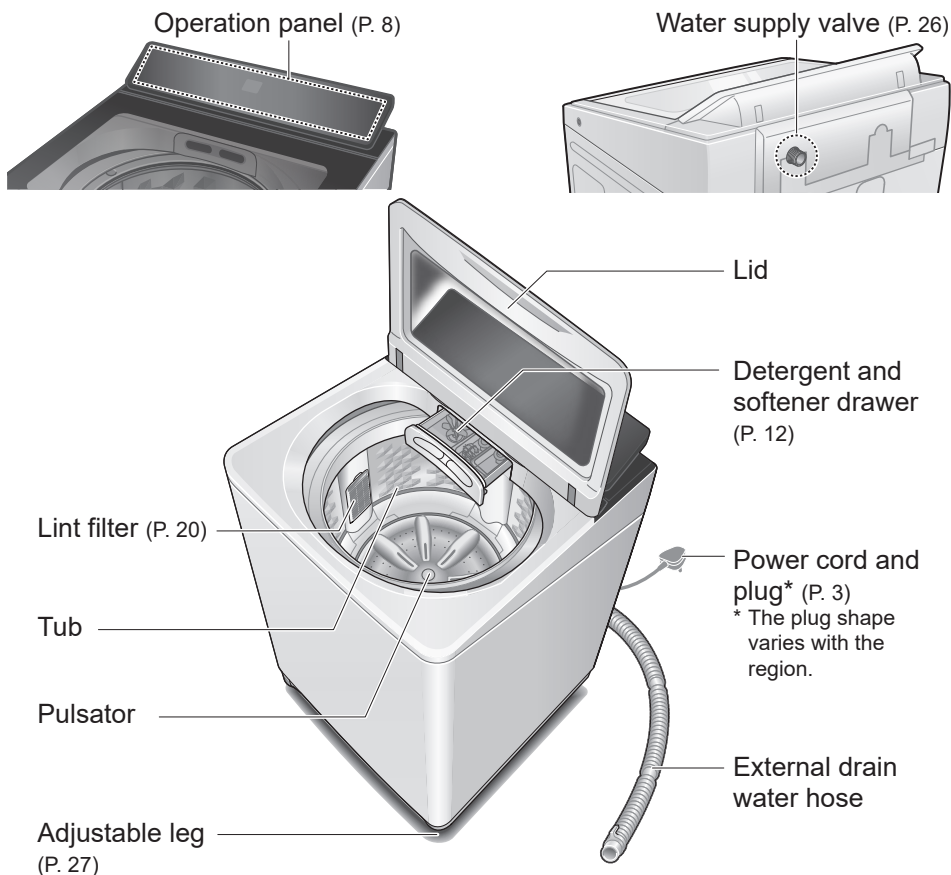
**For Machine-washable items only.**



- This appliance is intended to be used in household. This appliance is not intended to be used in applications such as:
  - 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 laundrettes.

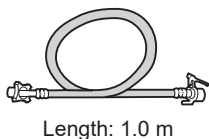
# Part Names / Accessories

## Part names

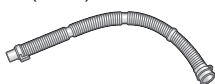


## Accessories

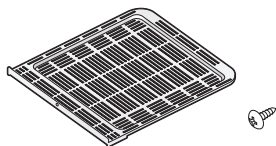
☐ Water supply hose (1)  
(P. 26)



☐ External drain water hose (1)  
(P. 25)



☐ Bottom cover (1) / Screw (1)  
(P. 25)



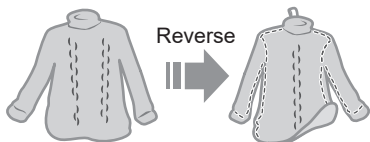
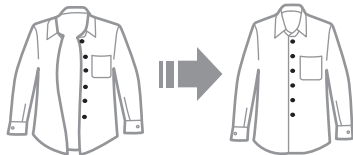
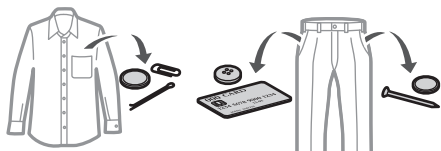
☐ Water tap adaptor (1) (P. 26)



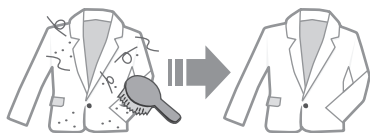
# Before Washing

## Laundry preparation and check

### Pre-laundry check

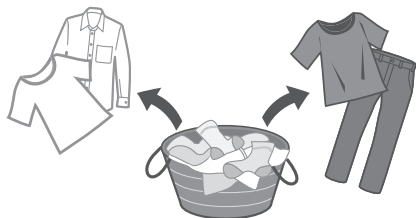


Clothes likely to pill

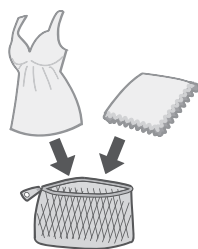


Paper diapers

### To prevent colour staining



### Use laundry nets for delicates



### For "Stain Master +" (P. 16)

- Pretreatments for heavily stains



- Observe the clothes' care labels



- For  60°C Steam Bacteria / Allergy

- Coloured clothes
- Shirts with stiff fabric



- Rubber clothes
- Graphic shirts



# Operation Panel

## Change process settings (P. 14)



Flashing  
(in progress)

## Water amount



88 L

▼ Approx.  
5 sec

## Remaining time



Time Left  
60 min

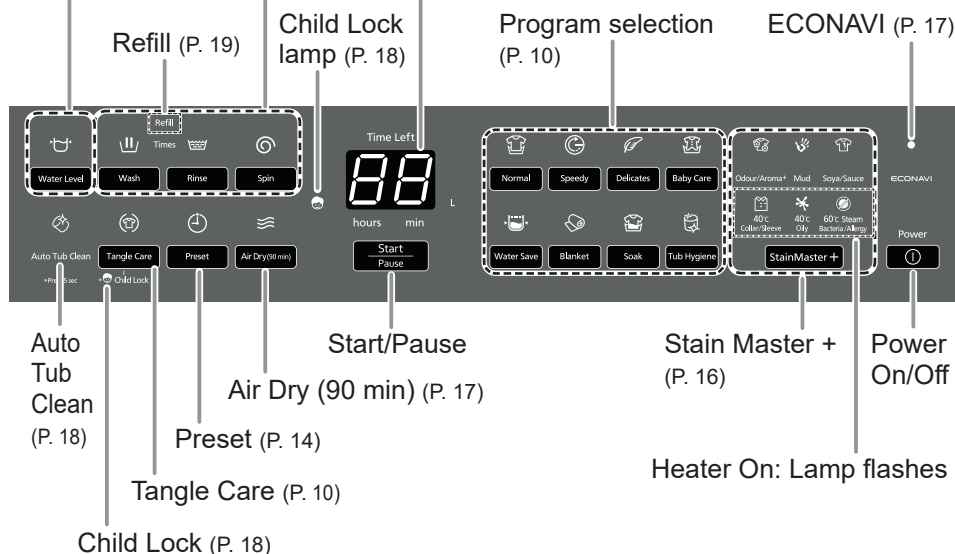
## Detergent volume

| Water level (L) |    |    | Detergent *2 |
|-----------------|----|----|--------------|
| 99 *1           | 88 | 81 |              |
| 74              | 66 | 59 |              |
| 52              | 46 | 38 |              |
| 33              |    |    |              |

\*1 NA-FD165V3: 99 L

NA-FD145V3: 93 L

\*2 : 1 scoop of detergent



## NOTE

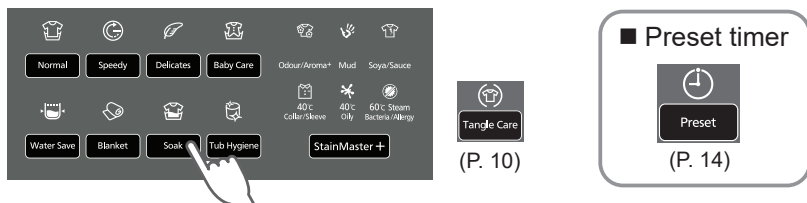
- In case of a power failure.  
⇒ Operation will resume from where it stopped when the power recovers.
- If you do not press **Start/Pause** within 10 minutes after power-on.  
⇒ Auto power off.
- The wash process setting of the “Stain Master +” and “Soak” programs cannot be changed.

# Washing

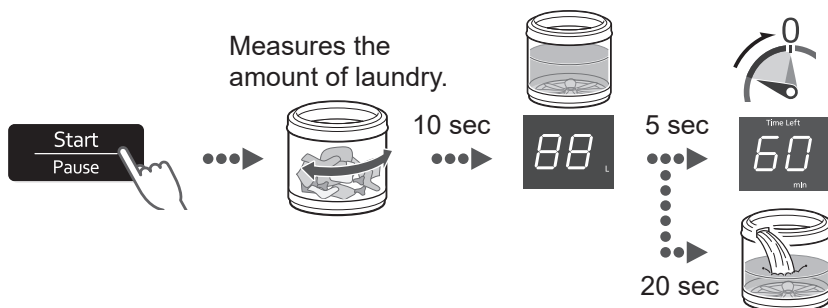
1



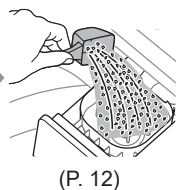
2



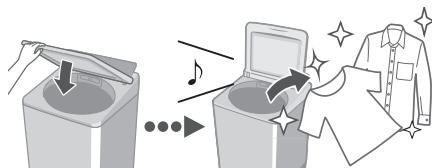
3



4

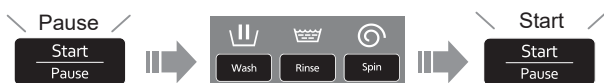


5



## ■ After pressing “Start”

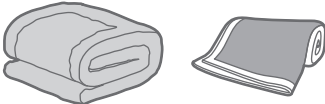
- To change each operation (while washing).



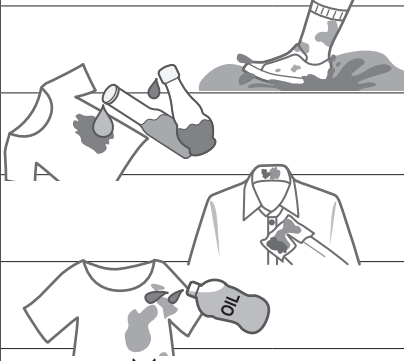
- To check or change the water level (while washing).
- You cannot change the program.



# Variety of Programs

|      | Program                                                                                                      | Purpose                                                                                                                                                                                                    | Max. capacity * (kg) |
|------|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| Wash |  <b>Normal</b> (P. 9)       | <ul style="list-style-type: none"> <li>● Everyday clothes</li> </ul>                                                      | 16.5<br>14.5         |
|      |  <b>Tangle Care</b> (P. 9)  | <ul style="list-style-type: none"> <li>● Anti-tangling</li> <li>• Washing more gently than “Normal” to reduce tangle.</li> <li>• Disentangling clothes after spin: 8 kg or less.</li> </ul>                |                      |
|      |  <b>Speedy</b> (P. 9)       | <ul style="list-style-type: none"> <li>● For light soil</li> </ul>                                                        | 16.5<br>14.5         |
|      |  <b>Delicates</b> (P. 15)   | <ul style="list-style-type: none"> <li>● Washing gently</li> </ul>                                                        | 5.0                  |
|      |  <b>Baby Care</b> (P. 9)   | <ul style="list-style-type: none"> <li>● Clothes for babies &amp; sensitive skin</li> <li>Rinsing thoroughly</li> </ul>  | 16.5<br>14.5         |
|      |  <b>Water Save</b> (P. 9) | <ul style="list-style-type: none"> <li>● Saving water</li> </ul>                                                        | 16.5<br>14.5         |
|      |  <b>Blanket</b> (P. 15)   | <ul style="list-style-type: none"> <li>● Comforters and blankets</li> </ul>  <p>With a machine-washable tag</p>         | 4.2                  |

\* Top: NA-FD165V3 / Bottom: NA-FD145V3

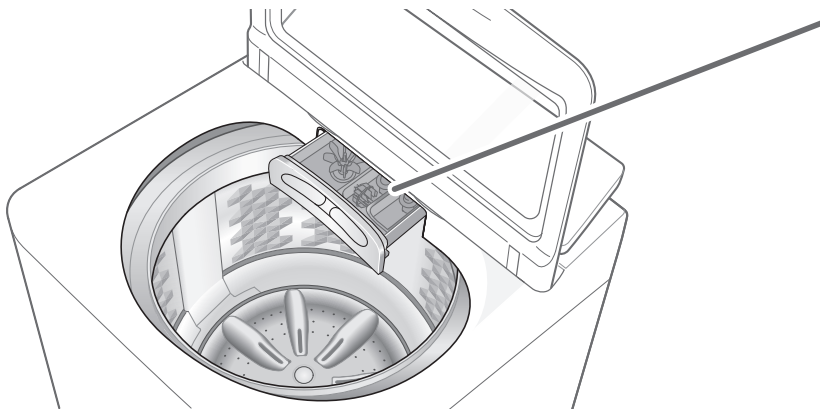
|      | Program                                                                                                                    | Purpose                                                                                                                                                                               | Max. capacity * (kg) |
|------|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| Wash |  <b>Soak</b> (P. 9)                       | <ul style="list-style-type: none"> <li>For heavy soil Presoaking to wash</li> </ul>                  | 16.5<br>14.5         |
|      | <b>StainMaster +</b> (P. 16)                                                                                               | <ul style="list-style-type: none"> <li>For the following stains</li> </ul>                                                                                                            | 6.0                  |
|      | Light <b>Odour/ Aroma+</b><br>            | <ul style="list-style-type: none"> <li>Use more softener to keep the scent longer</li> </ul>                                                                                          |                      |
|      |  <b>Mud</b>                               |                                                                                                      | 5.0                  |
|      |  <b>Soya/Sauce</b>                        |                                                                                                                                                                                       |                      |
|      |  <b>Collar/Sleeve (40 °C)</b>             |                                                                                                                                                                                       |                      |
|      |  <b>Heavy Oily (40 °C)</b>                |                                                                                                                                                                                       |                      |
|      | <b>Bacteria/Allergy (60 °C Steam)</b>                                                                                      |                                                                                                      |                      |
| Dry  |  <b>Air Dry (90 min)</b><br>(P. 17, 23) | <ul style="list-style-type: none"> <li>Drying synthetic fibre clothes</li> </ul>                   | 3.0                  |
|      |                                                                                                                            | <ul style="list-style-type: none"> <li>Tub drying</li> </ul>                                       | —                    |
|      |  <b>Tub Hygiene</b> (P. 23)             | <ul style="list-style-type: none"> <li>Tub cleaning<br/>Removing black mould and smell</li> </ul>  | —                    |

#### NOTE

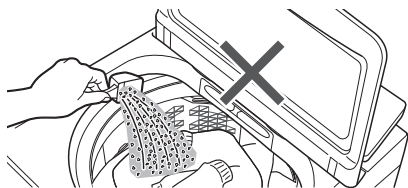
- “Normal” program and “Water Save” program are recommended for a normally soiled load at the rated capacity of this washing machine.
- “Water Save” program is recommended for use in Singapore.

# Detergent / Softener / Bleach

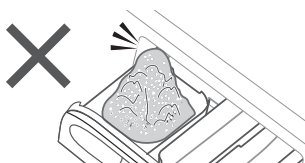
- Follow the instructions on each package.
- For cleaning (P. 21)
- Close auto dosing drawer completely before use.



## Detergent



- **Do not pour detergent directly into the tub.**
- The level of foaming depends on the load size, soil, detergent, and water hardness.

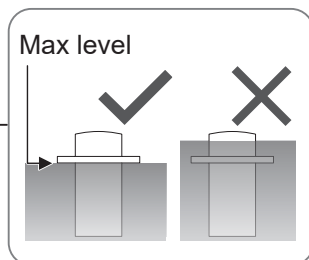
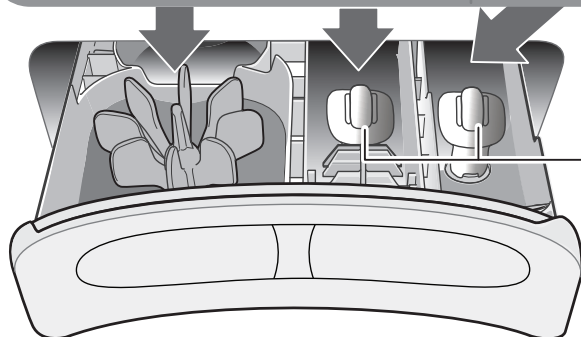
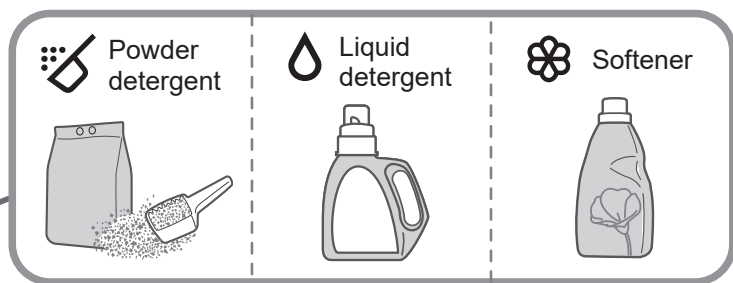


## Bleach

Whiten bleach  
(chlorine bleach)

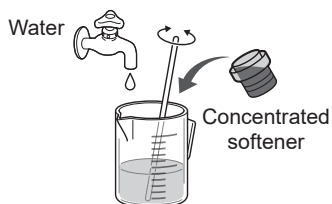


- To use bleach, put bleach in the powder detergent case (if bleach is in powder form) or liquid detergent case (if it is liquid bleach).



## Softener

- To put softener while the machine is operating:



Do not use separated or solidified softeners

- Softener cannot be used with the "Water Save" program.

# Washing Options

## Preset

Set how many hours later to finish operation.

1

2

Start

Pause

2 min

All other indications turn off.

|                            |         |
|----------------------------|---------|
| <div>Normal</div>          | 2 - 24  |
| <div>Speedy</div>          | 1 - 24  |
| <div>Delicate</div>        | -       |
| <div>Baby Care</div>       | 2 - 24  |
| <div>Water Save</div>      | 2 - 24  |
| <div>Blanket</div>         | -       |
| <div>Soak</div>            | 3 - 24  |
| <div>StainMaster +</div>   | (P. 16) |
| <div>Air Dry(90 min)</div> | -       |
| <div>Tub Hygiene</div>     | -       |

■ To confirm



■ To cancel or change



## Wash / Rinse / Spin

1

2

Wash

Rinse

Spin

3

**NOTE**

- Not available for “Tangle Care”.



## Delicates

|      |        |
|------|--------|
| 74 L | 5.0 kg |
| 66 L | 3.0 kg |
| 59 L | 1.0 kg |

### NOTE



Bleach



Liquid delicate detergent



### ■ After operation ends



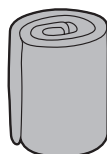
Take out immediately.



## Blanket

|                        |                                                                                                          |
|------------------------|----------------------------------------------------------------------------------------------------------|
| Max.<br>water amount * | 4.2 kg <ul style="list-style-type: none"> <li>• 100 % synthetic fibre</li> <li>• 100 % cotton</li> </ul> |
|------------------------|----------------------------------------------------------------------------------------------------------|

\* NA-FD165V3: 99 L / NA-FD145V3: 93 L



### NOTE



Powder detergent



Liquid detergent



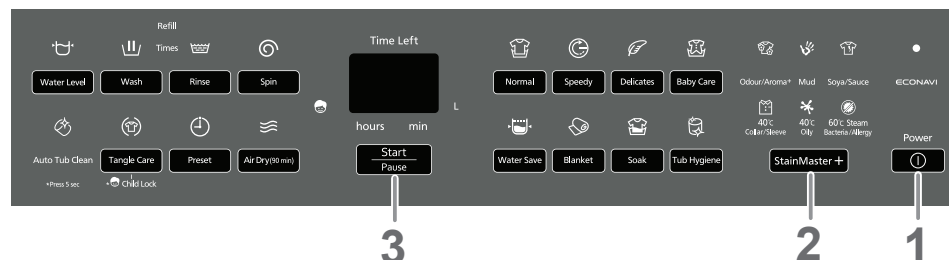
### NOTE

- The water amount indication shows the maximum and cannot be changed.

# Washing Options (continued)

## Stain Master +

Preparation: (P. 7)



1



2



■ Timer preset (hours) (P. 14)

Collar/Sleeve: 3 - 24

Oily: 3 - 24

Bacteria/Allergy: 4 - 24

Others: 2 - 24

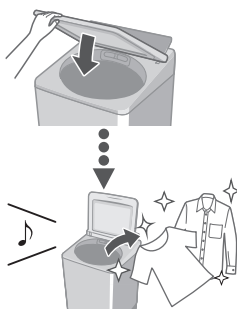
3



4

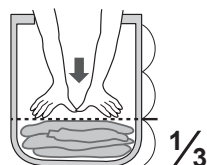


5

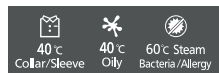


### NOTE

- Max. capacity (P. 11)



- Max. water amount
  - Bacteria/Allergy: 66L
  - Others: 81L
- You cannot change the wash process setting of this program.
- When using

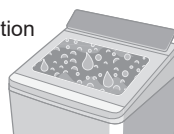


- Make sure to close the lid.



- Dew condensation may occur on the lid, etc.

Condensation



## Air Dry (90 min)

The air blown from the tub rotation removes water from clothes.

- Dryable clothes: Synthetic fibre (Max. 3.0 kg)



### NOTE

- Clothes may not be sufficiently dried (depends on amount and type of clothes, and the temperature).
- This function does not use a heater. Clothes may be cold and half dry.

## ECONAVI

- “Normal” program only

Weight / Temperature

Water and time saving\*



### ■ Lamp indications



Detecting



ECONAVI enabled



ECONAVI disabled

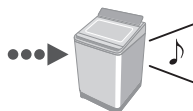
### ■ To turn on/off



Hold 3 sec



to select



\* Test conditions:

- “Normal” program
- Comparison between ECONAVI-enabled operation (amount of laundry: 2.0 kg, water temperature: above 35 °C) and ECONAVI-disabled operation (amount of laundry: 16.5 / 14.5 kg (rated capacity), water temperature: below 15 °C)
- Test was conducted based on IEC60456 except for water temperature.

# Convenient Functions

## Setting Auto Tub Clean

Preventing black mould, available with all programs except "Water Save" and "Air Dry (90 min)".

### ■ Lamp indications



Operating



Function enabled



Function disabled

### ■ To turn on/off

- 1
- 2
- 3 Hold 3 sec
- 4 to select ↔ off on
- 5

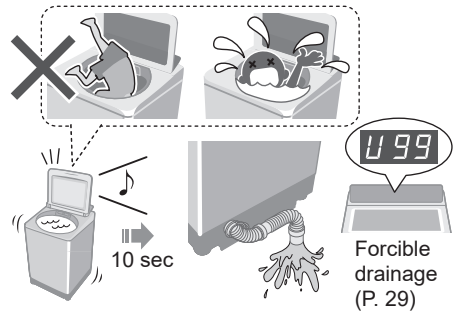
## Cancelling end buzzer

- 1 & Hold 3 sec

### ■ To reset:

same procedure

## Setting Child Lock

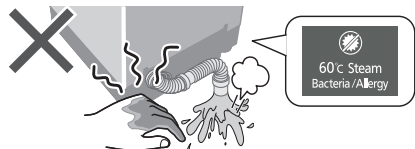


\* This function does not lock the lid and button operations.

- 1
- 2 Hold 5 sec

■ To cancel: same procedure

### NOTE



# Contents of Programs

| Program                                                                            |                         | Total time* <sup>1</sup><br>(min) | Wash<br>(min)    | Rinse<br>(times) | Spin<br>(min) |
|------------------------------------------------------------------------------------|-------------------------|-----------------------------------|------------------|------------------|---------------|
|    | <b>Normal</b>           | 65                                | 9                | 2                | 7             |
|    | <b>Tangle Care</b>      | 75                                | 13               | 2                | 7             |
|    | <b>Speedy</b>           | 50                                | 3                | 2                | 5             |
|    | <b>Delicates</b>        | 50                                | 9                | 2                | 1             |
|    | <b>Baby Care</b>        | 80                                | 9                | 2                | 7             |
|    | <b>Water Save</b>       | 80                                | 12               | 3                | 7             |
|    | <b>Blanket</b>          | 80                                | 12               | 2                | 7             |
|    | <b>Soak</b>             | 130 <sup>*2</sup>                 | 71 (Soak 59)     | 2                | 7             |
| <b>Stain Master +</b>                                                              | <b>Odour/Aroma+</b>     | 85                                | 13               | 2                | 7             |
|                                                                                    | <b>Mud</b>              | 90                                | 32               | 2                | 7             |
|                                                                                    | <b>Soya/Sauce</b>       | 110 <sup>*2</sup>                 | 54 (Soak 29)     | 2                | 7             |
|                                                                                    | <b>Collar/Sleeve</b>    | 165 <sup>*2</sup>                 | 33 <sup>*3</sup> | 2                | 7             |
|                                                                                    | <b>Oily</b>             | 170 <sup>*2</sup>                 | 38 <sup>*3</sup> | 2                | 7             |
|                                                                                    | <b>Bacteria/Allergy</b> | 190 <sup>*2</sup>                 | 30 <sup>*3</sup> | 2                | 7             |
|  | <b>Tub Hygiene</b>      | 150 <sup>*2</sup>                 | 65 (Soak 62)     | 2                | 30            |

\*1 Total time is approximate (When the standard water supply rate is 15 L / min and the water temperature is 28 °C).

\*2 Remaining time of 99 minutes or less will be displayed.  → 

\*3 Excluding water heating time. Symbol  will be displayed during the water heating process.

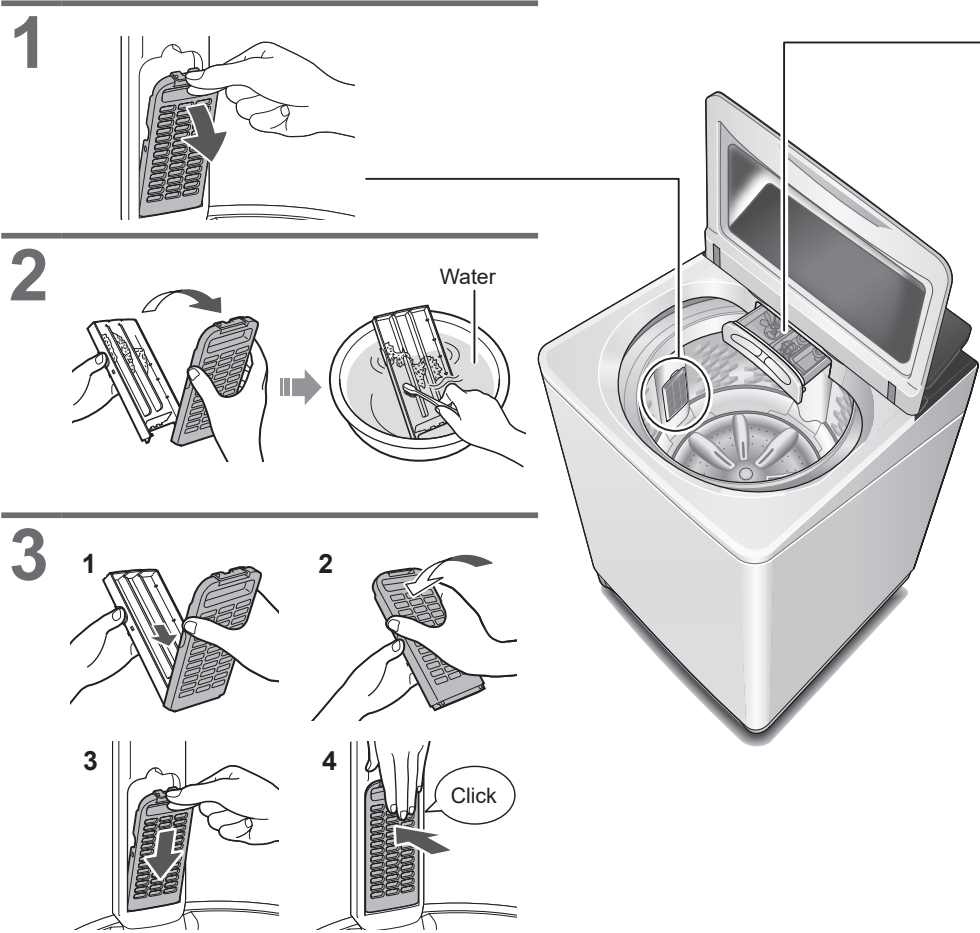
● “Refill”: to fill the tub with water and rinse while supplying water.



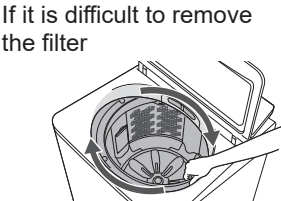
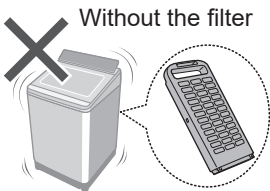
# Maintenance

## Lint filter

After each operation



**NOTE**



## Detergent and softener drawer

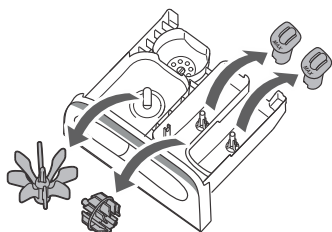
If stained with detergent or softener

1

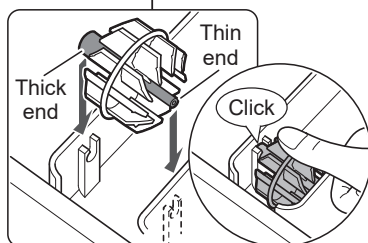
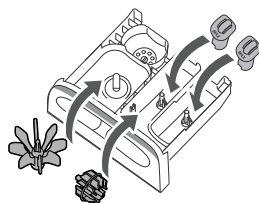


Remove

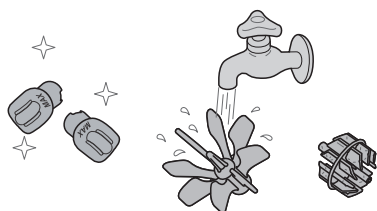
2



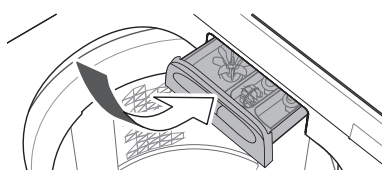
4



3



5



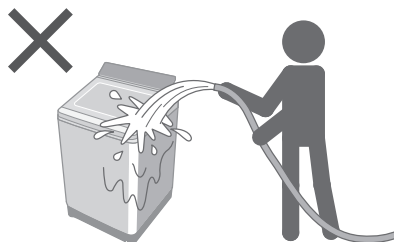
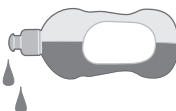
Attach

## Main unit, lid



For heavy soil

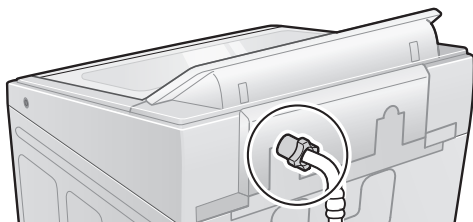
Neutral kitchen detergent



# Maintenance (continued)

## Water supply filter

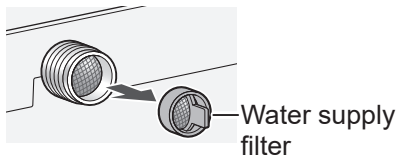
If water does not flow smoothly



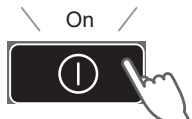
1



5



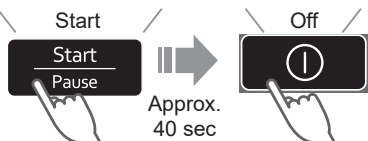
2



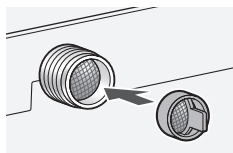
6



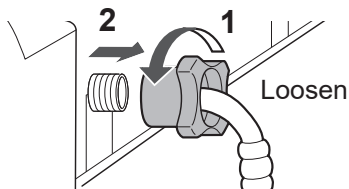
3



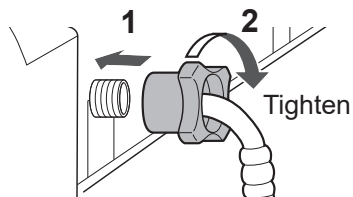
7



4

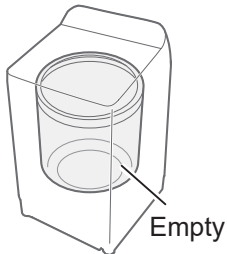


8



## Tub

### Once a week <Air Dry>

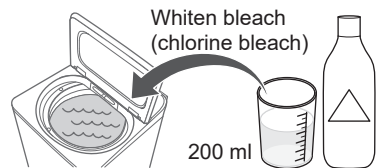


### Once a month <Tub Hygiene>

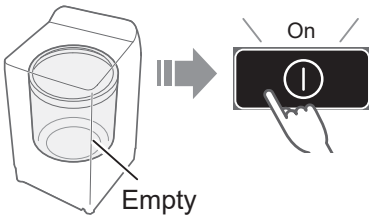
1



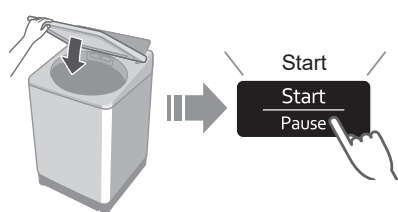
5



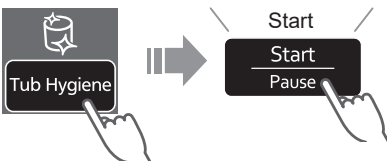
2



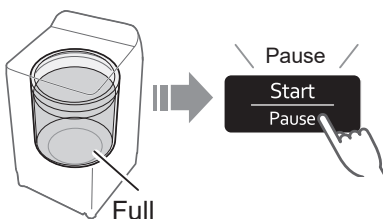
6



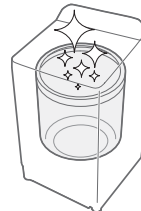
3



4

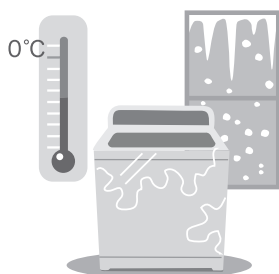
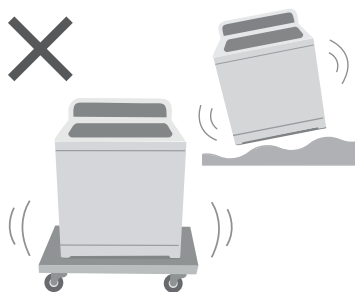
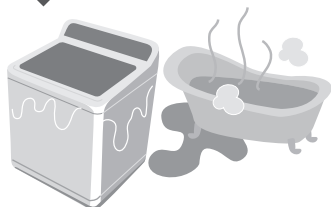


Approx. 2.5 hours



# Installation

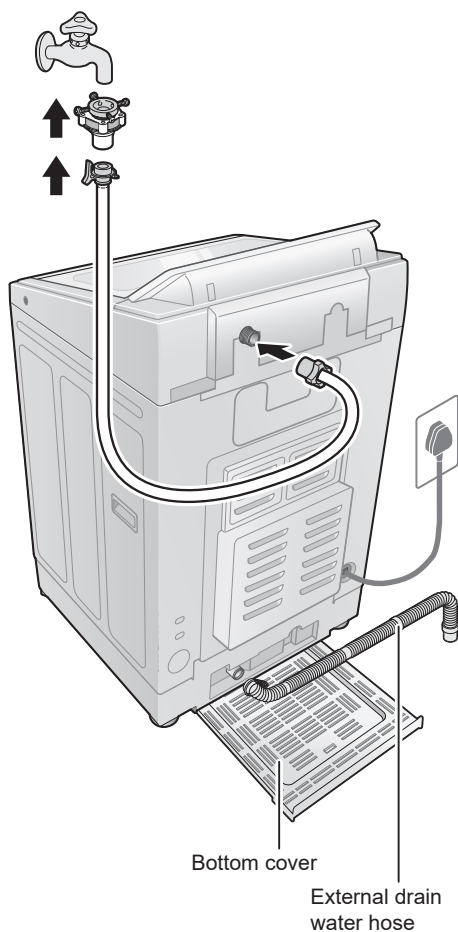
## Check the location.



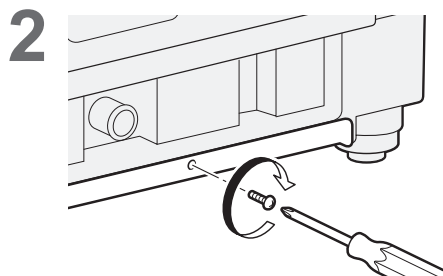
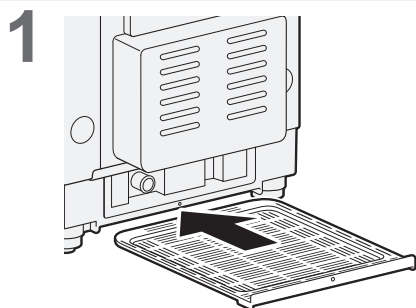
**Make sure to ask a service person for installation.**



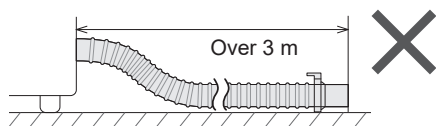
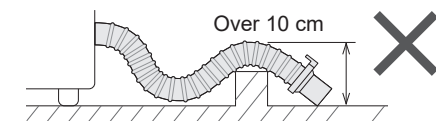
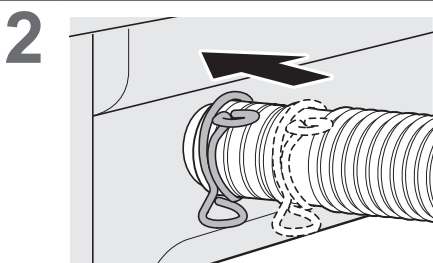
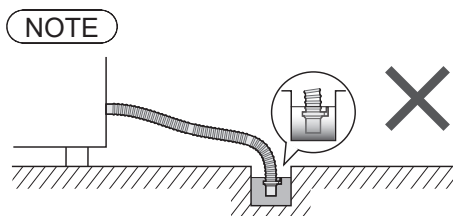
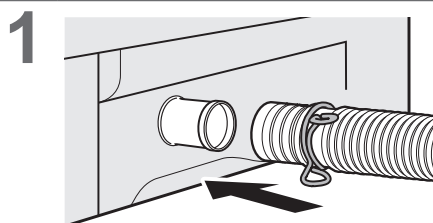
- Do not install by yourself.
- Follow this installation method.  
If you do not, Panasonic will not be liable for any accident or damage.



## Attach the bottom cover

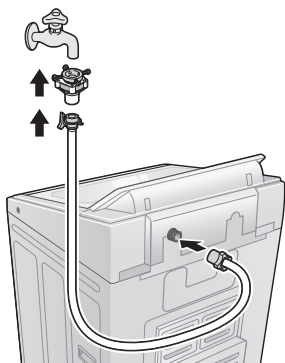


## Attach the external drain water hose

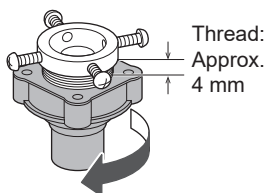


# Installation (continued)

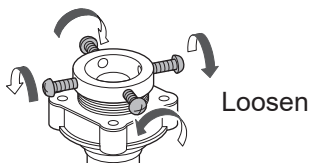
## Connect the water supply hose



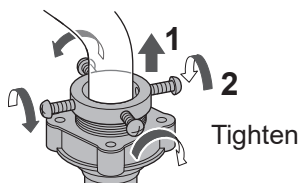
1



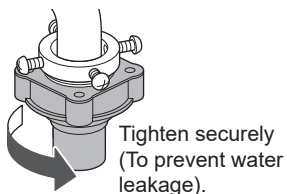
2



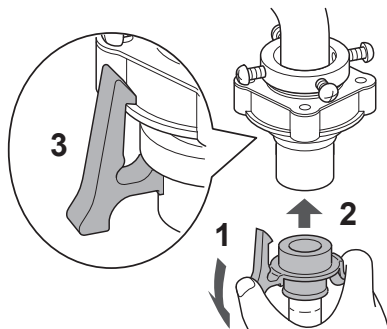
3



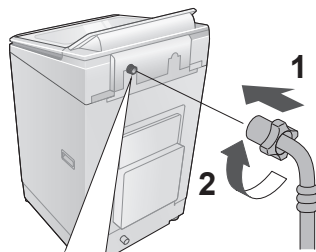
4



5



6



3

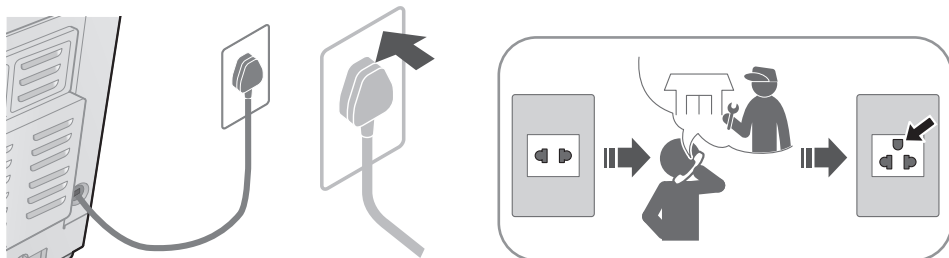
Check that the  
elbow is not loose.



### CAUTION

- Tighten the nut firmly.
- Do not twist, squash, modify or cut the hose.

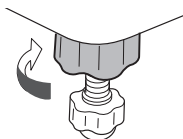
## Connect the power plug and grounding



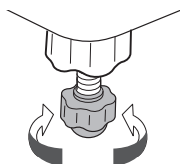
## Check that the washing machine is level

### ■ If the washing machine wobbles

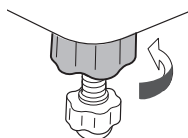
Loosen



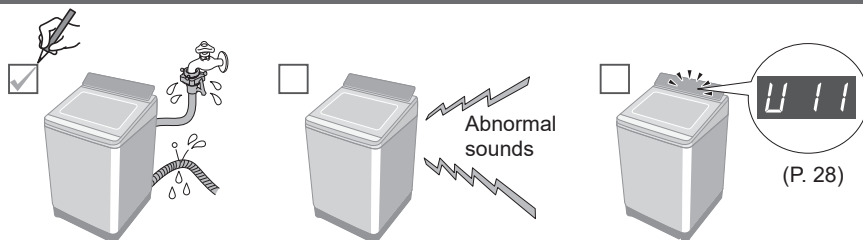
Adjust



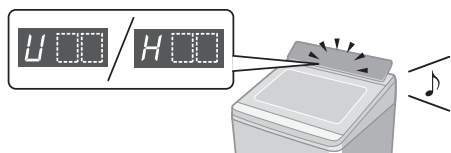
Tighten



## Trial operation

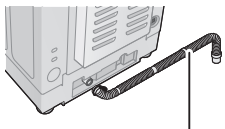
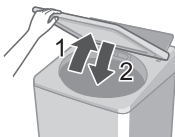
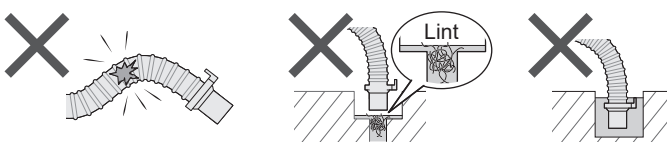
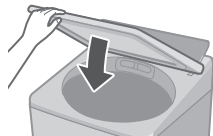
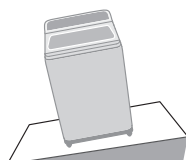
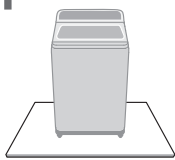
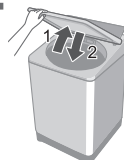


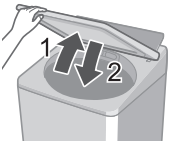
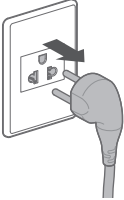
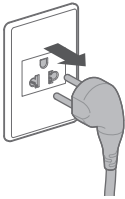
# Error Display



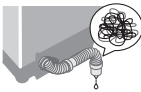
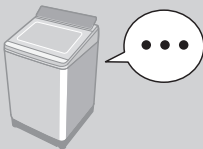
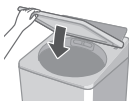
## ■ Preparation

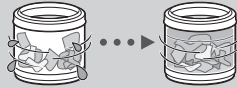
Cancel Child Lock (P. 18)  
if it is set.

| Error Display                                                                                                                    | Points to be checked                                                                                                                                                                                                                                                                                                                                                                                             |
|----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br><b>Water cannot drain.</b>                  | <div> <div>1 Check</div>  </div> <div> <div>2</div>  </div> <div>   </div> |
| <br><b>The lid is open.</b>                     | <div>1</div>                                                                                                                                                                                                                                                                                                                   |
| <br><b>Spin or "Air Dry" is not possible.</b> | <div> <div>Uneven</div>  </div> <div> <div>1 Even</div>  </div> <div> <div>2</div>  </div>                                                              |
|                                                                                                                                  | <div> <div>Unstable or incline</div>  </div> <div> <div>1 Stable</div>  </div> <div> <div>2</div>  </div>                                               |

| Error Display                                                                                                              | Points to be checked                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>Water cannot be supplied.</p>         | <div> <div> <p>Water outage</p>  </div> <div> <p>Turned off</p>  </div> <div>   </div> </div> <hr/> <div> <div> <p>1</p>  <p>Water supply filter (P. 22)</p> </div> <div> <p>2</p>  </div> </div> |
|  <p>Water has been forcibly drained.</p> | <div> <p>With Child Lock set</p>  </div> <div>  <p>Forcible drainage</p> <p>10 sec</p> </div> <hr/> <div> <p>1</p>  <p>5 sec</p>  </div>                                                                                                                                                                                                                       |
|  <p>Inspection is required.</p>         | <div> <p>1</p>  </div> <div> <p>2</p>  </div> <div> <p>3</p>  </div>                                                                                                                                                                                                                                                                                                                                                                          |

# Troubleshooting

|           | Symptoms                                                                                                                                    | Points to be checked                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Time      | <b>Indication increases or does not decrease.</b><br>      | Time indication is approximate.<br>Remaining time is corrected during operation.<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|           | <b>Longer than the indication.</b><br>                     | <div>           When clothes are uneven.<br/>  </div> <div>           When the water drainage is not good.<br/>  </div> <div>           When the water supply is not good.<br/>  </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|           | <b>Operation passes the preset time.</b><br>               |  The operation time may be longer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Main unit | <b>No operation</b><br>                                   | <div> <input type="checkbox"/> Check           <ul style="list-style-type: none"> <li>● Power failure<br/></li> <li>● Timer preset<br/></li> </ul> </div> <div> <input type="checkbox"/> Try           <ul style="list-style-type: none"> <li>● Close the lid.<br/></li> <li>● Turn on.<br/></li> <li>● Insert the power plug completely.<br/></li> <li>● Press "Start".<br/></li> <li>● Turn breaker on.<br/></li> </ul> </div> |
|           | <b>Cannot change process settings (after start).</b><br> | <div> <input type="checkbox"/> Try           <ul style="list-style-type: none"> <li>● During wash process               <ol style="list-style-type: none"> <li>1 Pause<br/></li> <li>2<br/></li> <li>3 Start<br/></li> </ol> </li> <li>● After wash process               <ol style="list-style-type: none"> <li>1 Off<br/></li> <li>2 On<br/></li> </ol> </li> </ul> </div>                                                                                                                                                                                                                    |

|       | Symptoms                                                                                                                                                     | Points to be checked                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Wash  | <b>Water is supplied while washing.</b><br>                                 | <div> When water level drops.  </div> <div> When amount of laundry is large.  </div> <div>  Water is added automatically. </div>                                                                                                                                                             |
|       | <b>The water level</b><br><br><b>too high</b>                               | <div> When laundry is wet.  </div> <div> When there is water in the tub before operation.  </div> <div>  The water level may be higher. </div>                                                                                                                                               |
|       | <b>too low</b>                                                              | <div> When clothes are light (synthetic fibre, etc.).  </div> <div>  The water level may be lower. </div>                                                                                                                                                                                                                                                                     |
| Rinse | <b>Operation started with rinse, but water is not supplied.</b><br>        | <div> When there is no water in the tub.  <div>  Water is supplied after spin. </div> </div> <div> When there is water in the tub.  <div>  Water is supplied after water discharge and spin. </div> </div> |
| Spin  | <b>Spin changes to rinse.</b><br><b>Rinse starts instead of spin.</b><br> | <p>If clothes are uneven, this appliances automatically corrects unevenness by rinse process.</p>                                                                                                                                                                                                                                                                                                                                                            |
|       | <b>Irregular rotation</b><br>                                             | <p>The tub rotation speed is adjusted to reduce vibration.</p>                                                                                                                                                                                                                                                                                                                                                                                               |

# Troubleshooting (continued)

|        | Symptoms                                                                                                                | Points to be checked                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------|-------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Others | <b>Power failure/Breaker off.</b><br>  | Operation will resume from where it stopped when the power is recovered.<br>                                                                                                                                                                                                                                                                                                                                                                                           |
|        | <b>StainMaster+ has no effect.</b><br> | <div><input type="checkbox"/> Check<ul style="list-style-type: none"><li>● Max. capacity (P. 11)<br/></li></ul></div> <div><input type="checkbox"/> Try<ul style="list-style-type: none"><li>● Pretreatments (P. 7)<br/></li><li>● Select according to the stain type. (P. 11)<br/></li></ul></div> |

# Specifications

| Model No.                 | NA-FD165V3                            | NA-FD145V3 |
|---------------------------|---------------------------------------|------------|
| Rated voltage             | 220 - 240 V                           |            |
| Rated frequency           | 50 Hz                                 |            |
| Rated power consumption   | 1475 - 1750 W                         |            |
| Standard water amount     | 99 L                                  | 93 L       |
| Maximum mass of dry cloth | 16.5 kg                               | 14.5 kg    |
| Product dimensions        | 681 mm (W) x 747 mm (D) x 1112 mm (H) |            |
| Product weight            | 49 kg                                 |            |
| Pressure of tap water     | 0.01 - 1 MPa                          |            |