

# Panasonic®

## Operating & Installation Instructions

Fully Automatic Washing Machine  
(Household Use)

Model No. NA-FD16V1 NA-FD14V1



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**Thank you for purchasing this product.**

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

AWW9901D4VC0-0C5

A1120-0(S)(P)

Printed in Vietnam

11-2020



# Safety Precautions

## **WARNING**

### May cause serious injury or death.

#### Children must not use it alone.

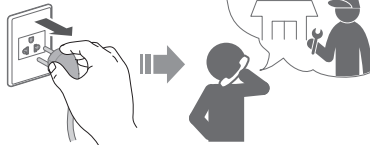


- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children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

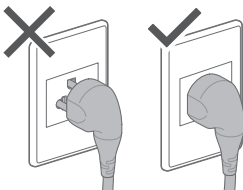


### May cause fire or electric shock.

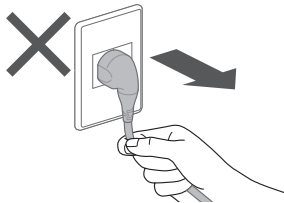
#### Do not touch it with wet hands.



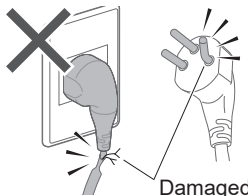
#### Fully insert it.



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

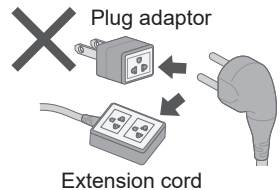


#### Do not use.

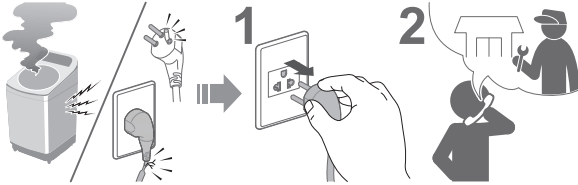


- If the power cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

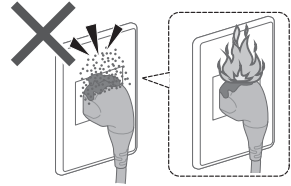
#### Do not use.



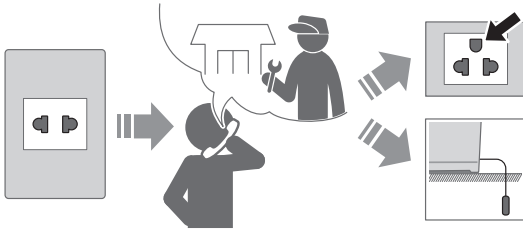
**In case of failure or damaged power cord, stop use and ask the service centre.**



**Accumulated dust may cause fire.**



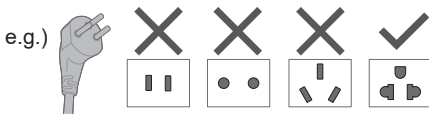
**Securely insert the ground prong. Call your local dealer for a new socket.**



**Wipe the power plug periodically.**

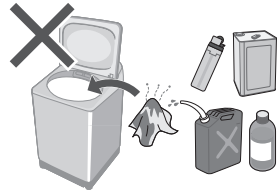


**Use a socket appropriate for this appliance.**



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

**Keep away from flammable materials.**



**May cause failure.**

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

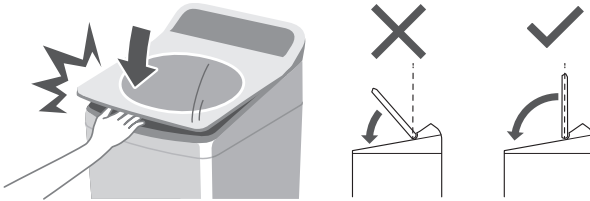


# Safety Precautions (continued)

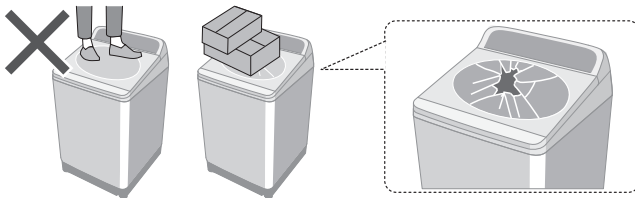
## ⚠ CAUTION

### May cause injury.

Be careful not to get your fingers caught.

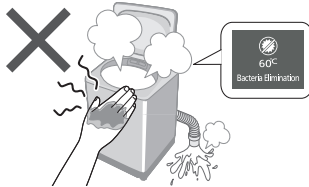


Do not climb or put objects on the appliance.

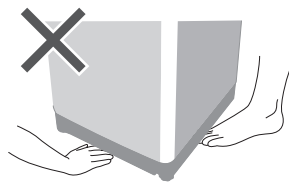


- If the lid is broken, immediately stop using.

Do not touch when it is hot.

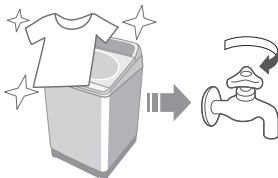


Be careful of your hands and feet.

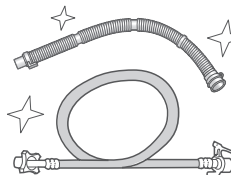


### May cause water leakage.

Turn off the water faucet.



Use new hose-sets.

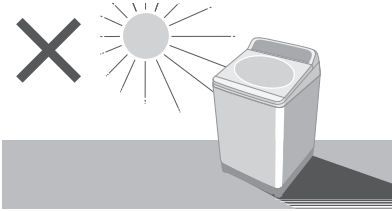


- New hose-sets supplied with the appliance are to be used and old hose-sets should not be reused.

■ For maximum dry cloth and tap water pressure, see Page 32.

## May cause failure.

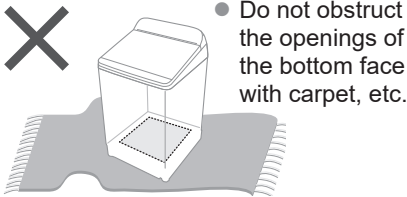
**Keep away from heat and direct sunlight.**



**Do not wash waterproof items.**

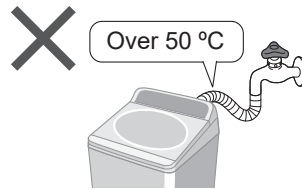


**Do not obstruct.**



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

**Do not use hot water.**



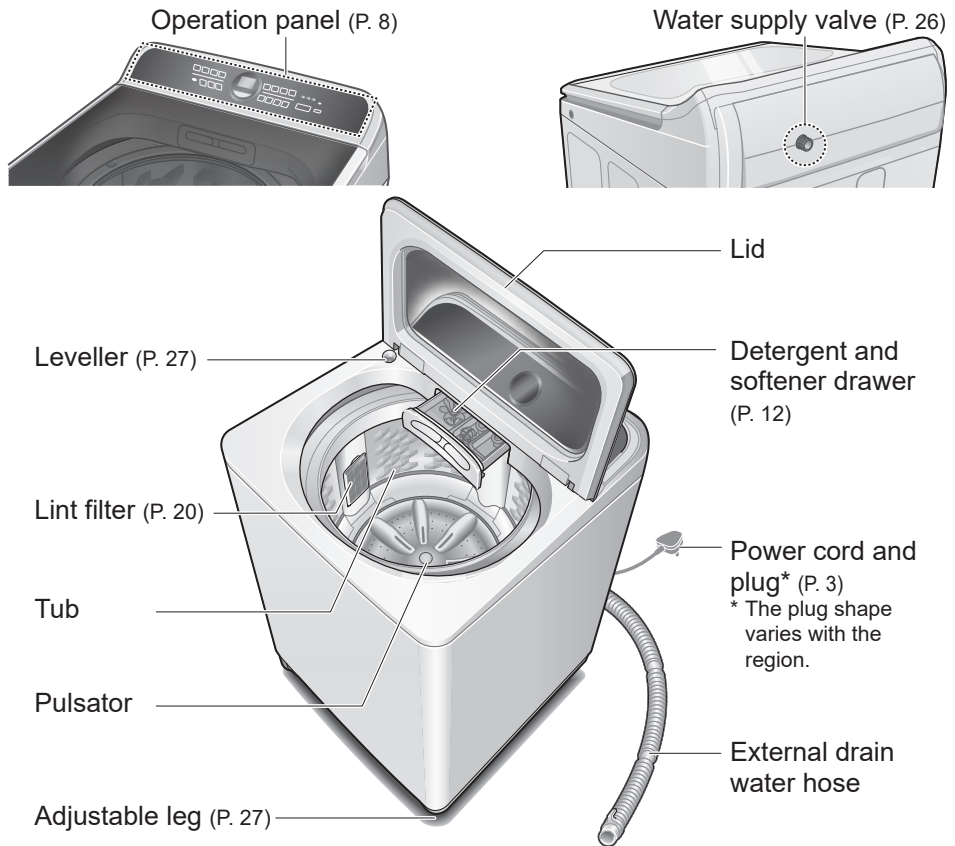
**For Machine-washable items only.**



- 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

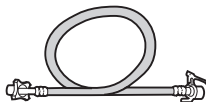
## Part names



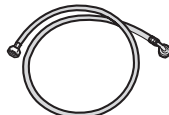
## Accessories

Water supply hose\* (1) (P. 26)

\* The hose supplied depends on the region the unit is sold in.  
(Joint type) (Screw type)

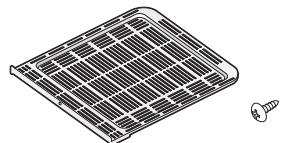


1.0 m



1.0 m

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



Water tap adaptor\* (1) (P. 26)



\* For Joint type only

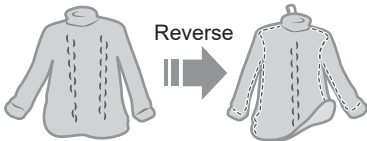
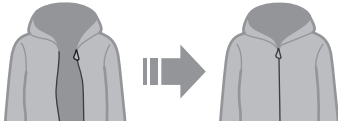
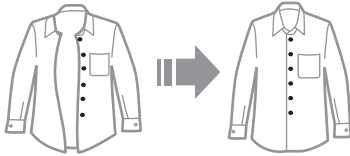
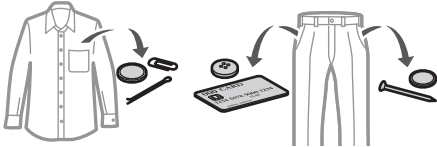
External drain water  
hose (1) (P. 25)



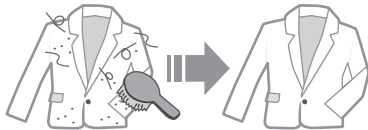
# Before Washing

## Laundry preparation and check

### Pre-laundry check

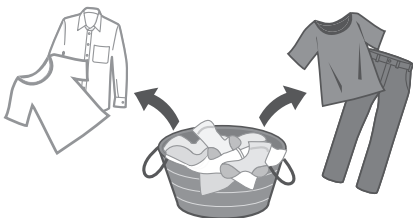


Clothes likely to pill

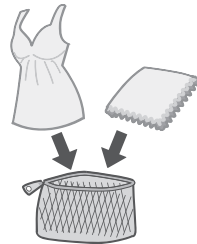


Paper diapers

### To prevent colour staining

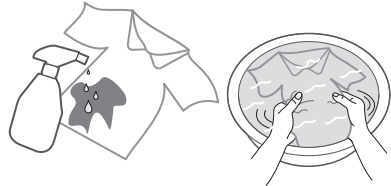


### Use laundry nets for delicates

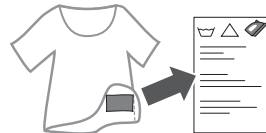


### For "Stain Master +" (P. 16)

- Pretreatments for heavily stains



- Observe the clothes' care labels



- For



- 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




60

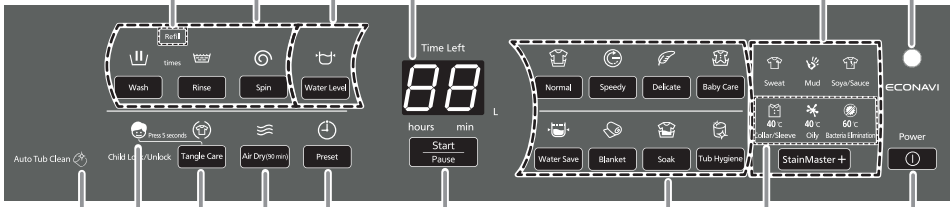
 min

### Detergent volume

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

\*1 NA-FD16V1: 99 L  
NA-FD14V1: 93 L

\*2  : 1 scoop of detergent



Refill (P. 19)

Auto Tub Clean (P. 18)

Child Lock (P. 18)

Tangle Care (P. 10)

Air Dry (P. 17)

Preset (P. 14)

Time Left

88

 L

Stain Master + (P. 16)

Program selection (P. 10)

Heater On: Lamp flashes

Power On/Off

Start/Pause

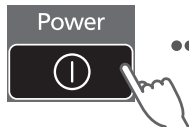
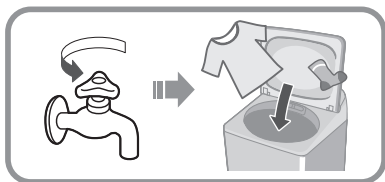
## NOTE

- 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.

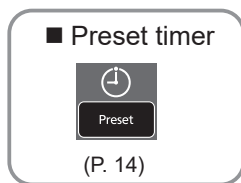


# Washing

1



2



3

Measures the amount of laundry.



10 sec



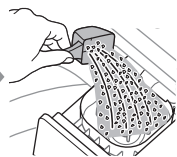
5 sec



20 sec

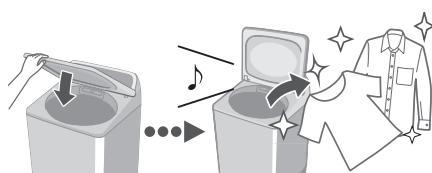


4



(P. 12)

5



## ■ After pressing “Start”

- To change each operation (while washing).













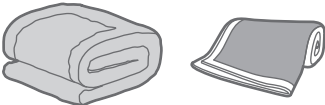


- To check or change the water level (while washing).



















- 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> 	16.0
	 <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>	14.0
	 <b>Speedy</b> (P. 9)	<ul style="list-style-type: none"> <li>● For light soil</li> </ul> 	16.0 14.0
	 <b>Delicate</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> 	16.0 14.0
	 <b>Water Save</b> (P. 9)	<ul style="list-style-type: none"> <li>● Saving water</li> </ul> 	16.0 14.0
	 <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-FD16V1 / Bottom: NA-FD14V1

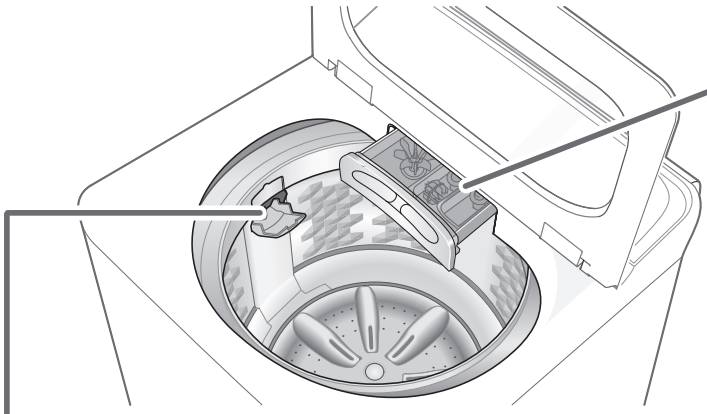
	Program	Purpose	Max. capacity * (kg)
Wash	 <b>Soak</b> (P. 9)	● For heavy soil Presoaking to wash	 16.0 14.0
	<b>StainMaster +</b> (P. 16)	● For the following stains	5.0
	Light <b>Sweat</b>		
	 <b>Mud</b>		
	 <b>Soya/Sauce</b>		
	 <b>Collar/Sleeve (40 °C)</b>		
Heavy <b>Oily (40 °C)</b>			
	<b>Bacteria Elimination (60 °C)</b>		
Dry	 <b>Air Dry (90 min)</b> (P. 17)	● Drying synthetic fibre clothes	 3.0
Maintenance		● Tub drying	 —
	 <b>Tub Hygiene</b> (P. 23)	● Tub cleaning Removing black mould and smell	 —

**NOTE**

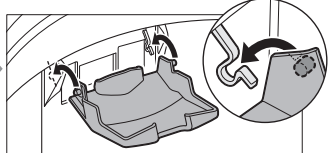
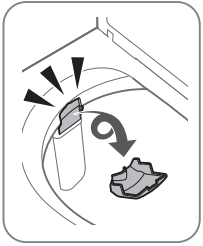
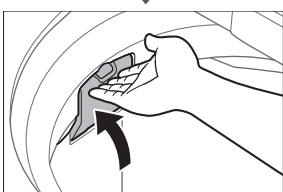
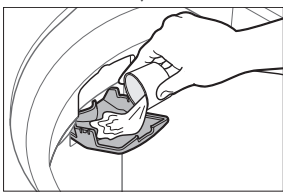
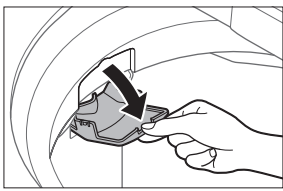
- “Normal” program and “Water Save” program are recommended for a normally soiled load at the rated capacity of this washing machine.
- “Water Save” program is recommended for Singapore.

# Detergent / Softener / Bleach

- Follow the instructions on each package.
- For cleaning (P. 21)
- Close detergent and softener drawer completely before use.

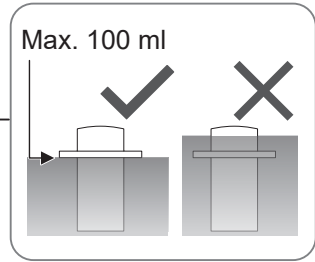
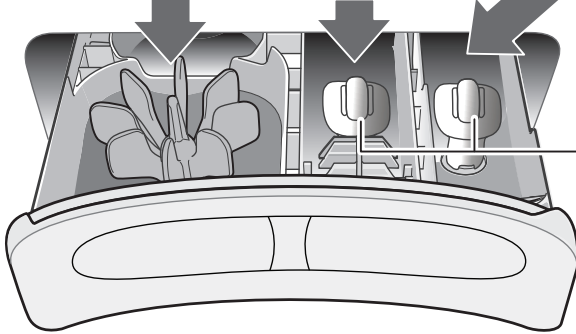
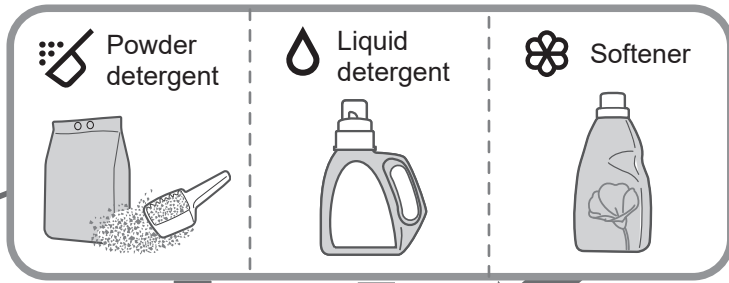


## Bleach

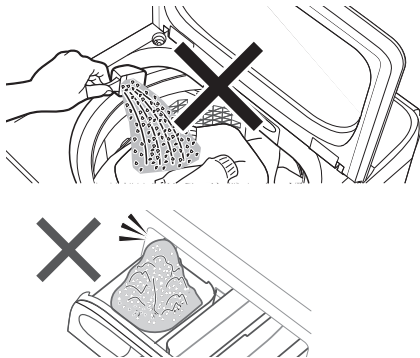


Whiten bleach  
(chlorine bleach)

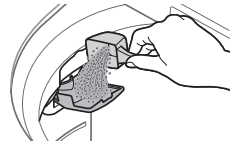




## Detergent



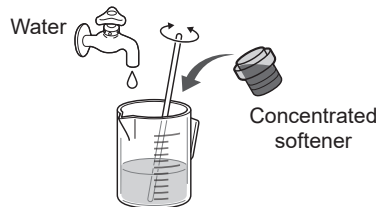
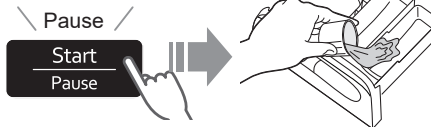
- If powder detergent does not dissolve well, put it in the bleach inlet.



- The level of foaming depends on the load size, soil, detergent, and water hardness.

## Softener

- During operation



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

# Washing Options

## Preset

Set how many hours later to finish operation.

1



2



All other indications turn off.



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

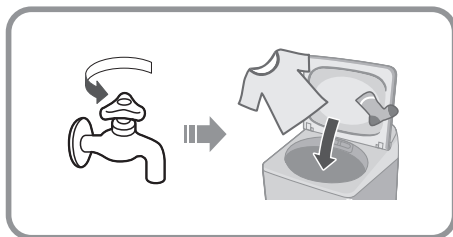
■ To confirm



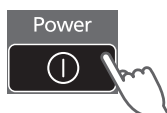
■ To cancel or change



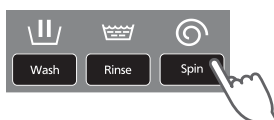
## Wash / Rinse / Spin



1



2



3



### NOTE

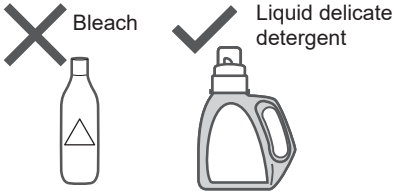
- Not available for "Tangle Care".



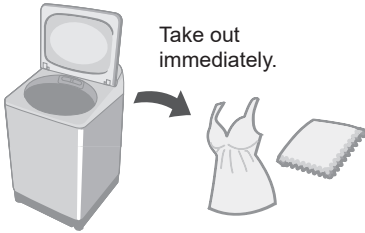
## Delicate

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

### NOTE



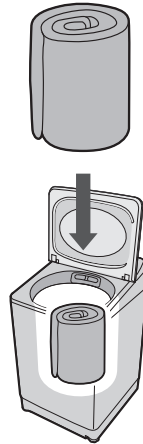
### ■ After operation ends



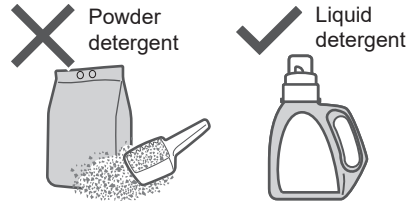
## Blanket

Max. water amount *	4.2 kg • 100 % synthetic fibre • 100 % cotton
------------------------	---

\* NA-FD16V1: 99 L / NA-FD14V1: 93 L



### NOTE



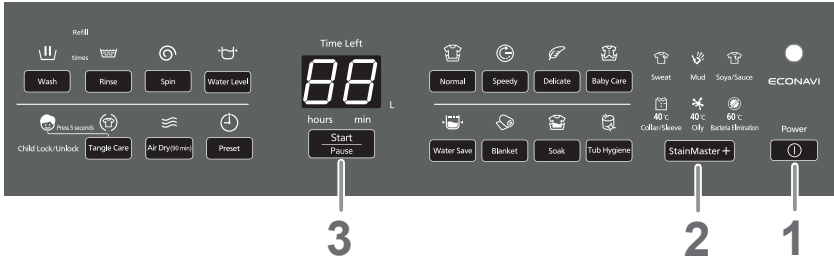
### NOTE

- 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 Elimination: 4 - 24
- Others: 2 - 24

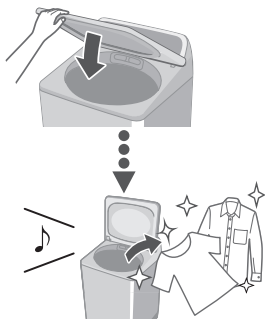
3



4

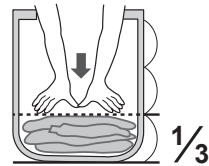


5

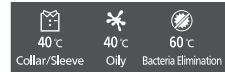


### NOTE

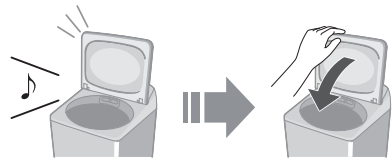
- Max. 5.0 kg



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

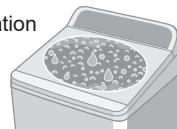


- Make sure to close the lid.



- Dew condensation may occur on the lid, etc.

Condensation

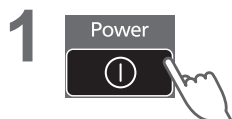




## Air Dry (90 min)

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

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



### NOTE

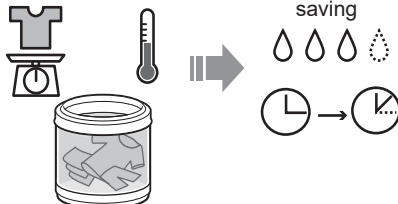
- Clothes may not be sufficiently dried (depends on amount and type of clothes, and the temperature).
- This function does not use a heater. Clothes may be cold and half dry.

## ECONAVI

- “Normal” program only

Weight / Temperature

Water and time saving



### Lamp indications



ECONAVI Detecting



ECONAVI ECONAVI enabled



ECONAVI ECONAVI disabled

### To turn on/off



\* Test conditions:

- “Normal” program
- Comparison between ECONAVI-enabled operation (amount of laundry: 4.0 kg, water temperature: above 35 °C) and ECONAVI-disabled operation (amount of laundry: 16.0 / 14.0 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”.













### ■ Lamp indications

Auto Tub Clean  Operating






Auto Tub Clean  Function enabled


Auto Tub Clean  Function disabled

### ■ To turn on/off

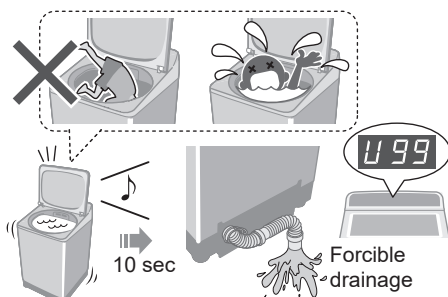
- 1  
- 2 
- 3  Hold 3 sec 
- 4  to select    off on
- 5   

## Cancelling end buzzer

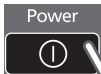








- 1  &   Hold 3 sec  

■ To reset:  
same procedure 

## Setting Child Lock



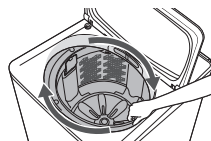
\* This function does not lock the lid and button operations.

- 1  
  - 2   Hold 5 sec     x2
- To cancel: same procedure  x4









### NOTE





## Turning the tub by hand



# Contents of Programs

Program	Total time* <sup>1</sup> (min)	Wash (min)	Rinse (times)	Spin (min)	
 <b>Normal</b>	70	10	2	7	
 <b>Speedy</b>	50	3	2	5	
 <b>Delicate</b>	50	9	2	1	
 <b>Baby Care</b>	80	10	2	9	
 <b>Water Save</b>	80	10	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>Sweat</b>	70	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 Elimination</b>	225 * <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.

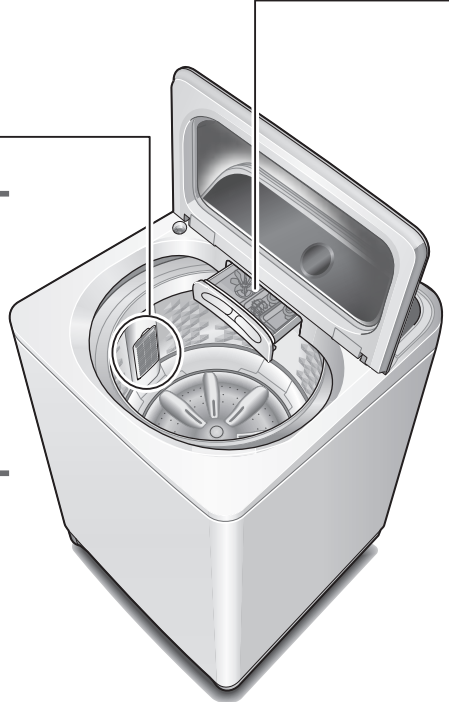
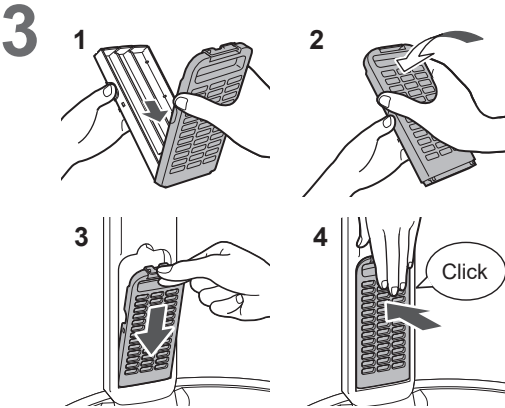
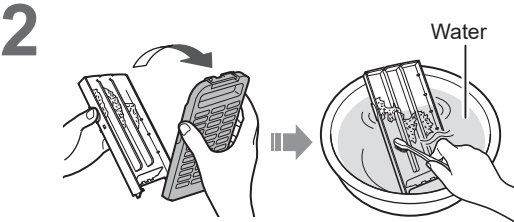
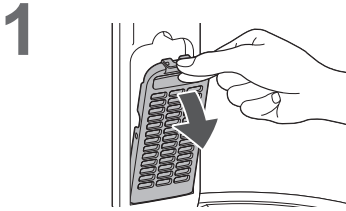
- “Refill”: to fill the tub with water and rinse while supplying water.



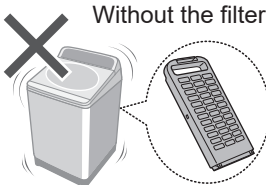
# Maintenance

## Lint filter

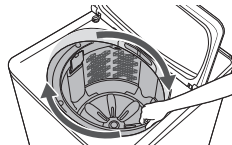
After each operation



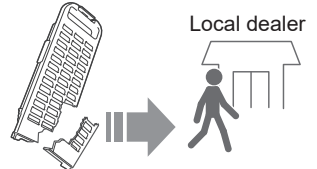
### NOTE



If it is difficult to remove the filter (P. 18)



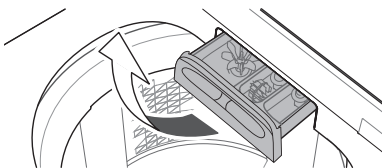
If the filter is broken



## Detergent and softener drawer

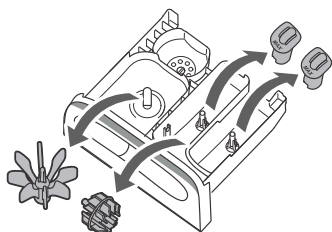
If stained with detergent or softener

1

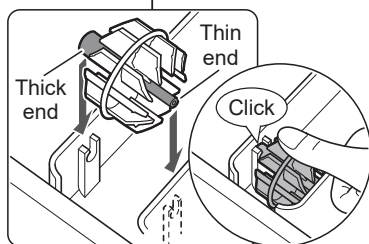
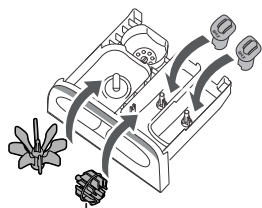


Remove

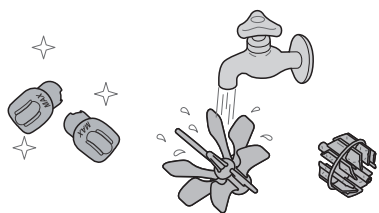
2



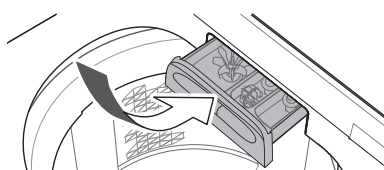
4



3



5



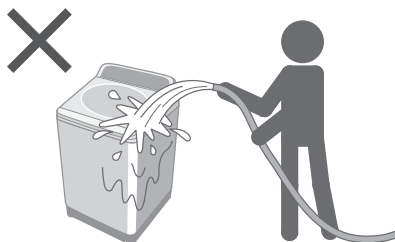
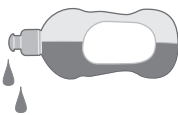
Attach

## Main unit, lid



For heavy soil

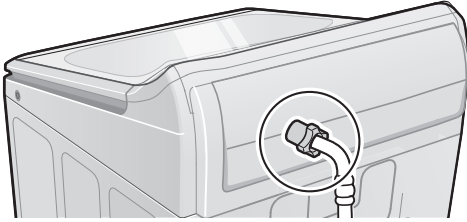
Neutral kitchen  
detergent



# Maintenance (continued)

## Water supply filter

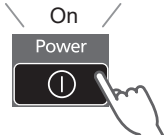
If water does not flow smoothly



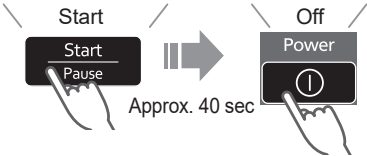
1



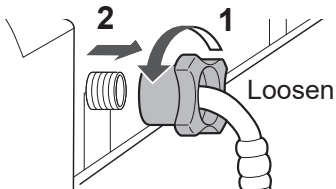
2



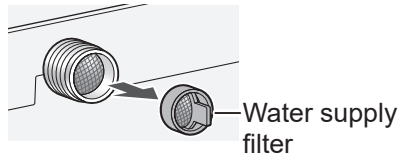
3



4



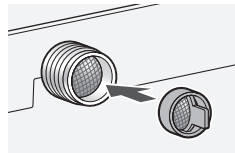
5



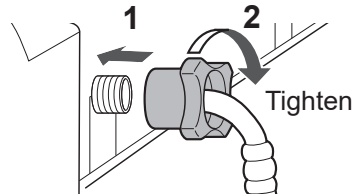
6



7



8



## Tub

Once a week <Air Dry>

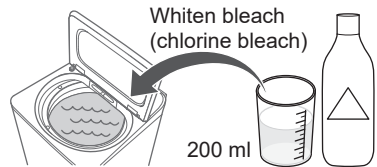


Once a month <Tub Hygiene>

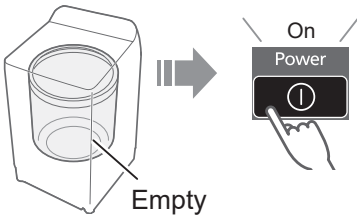
1



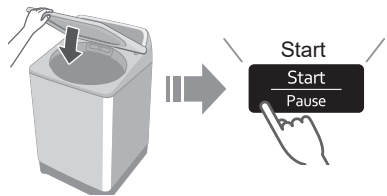
5



2



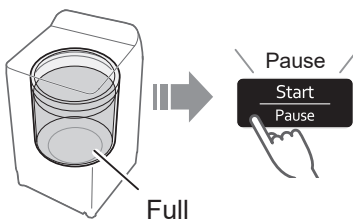
6



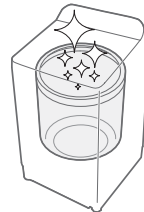
3



4

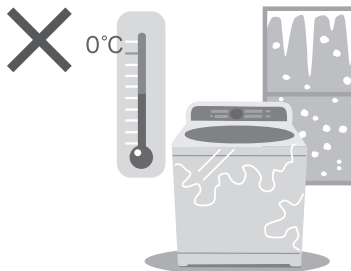
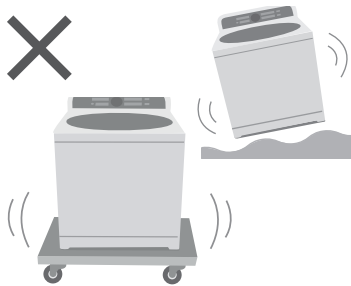
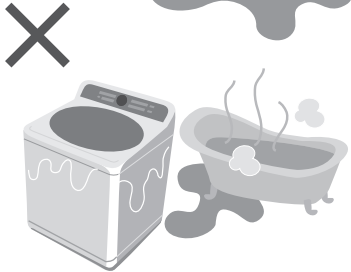
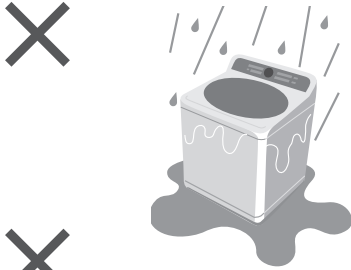


Approx. 2.5 hours



# Installation

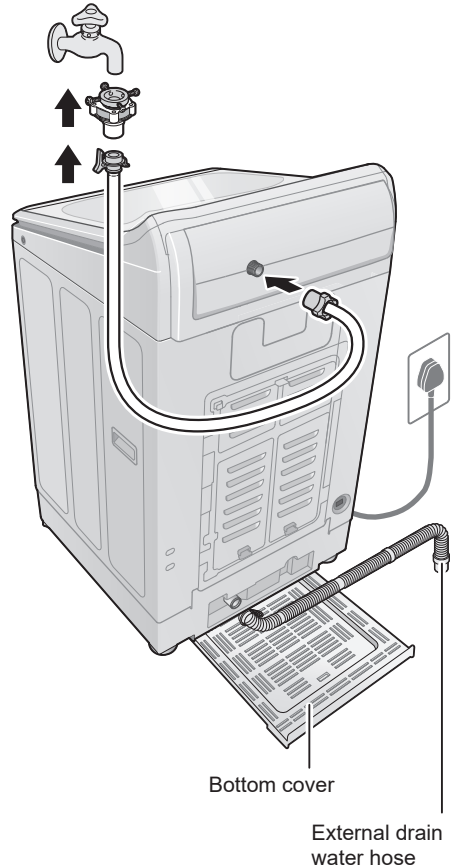
## Check the location.



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

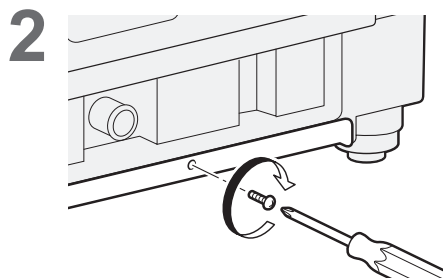
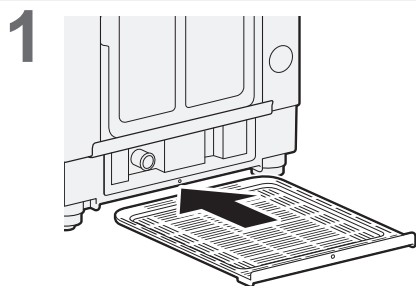


- Do not install by yourself.
- Follow this installation method.  
If you do not, Panasonic will not be liable for any accident or damage.

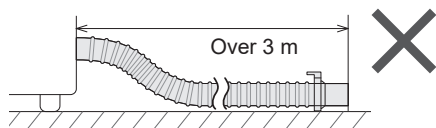
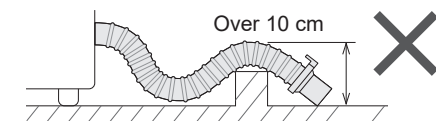
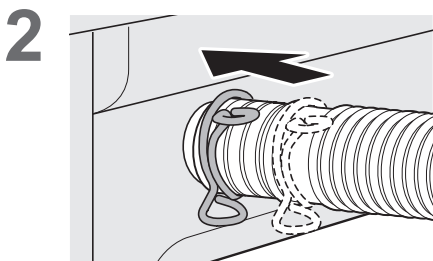
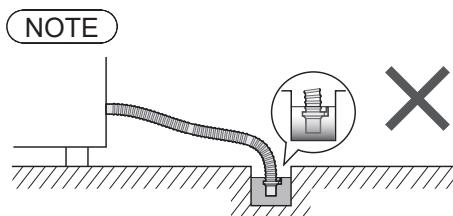
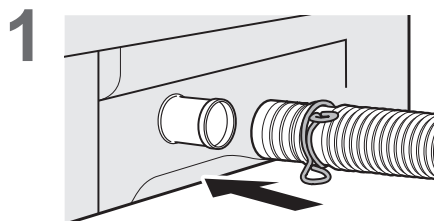




## Attach the bottom cover



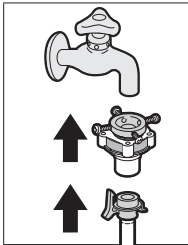
## Attach the external drain water hose



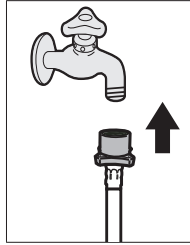
# Installation (continued)

## Connect the water supply hose

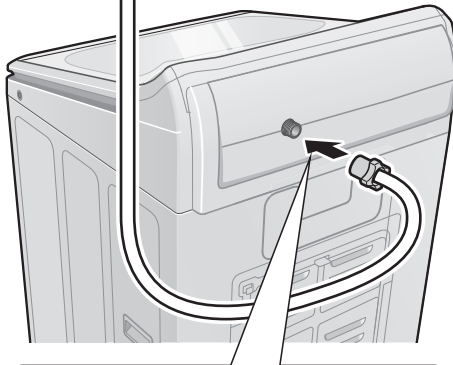
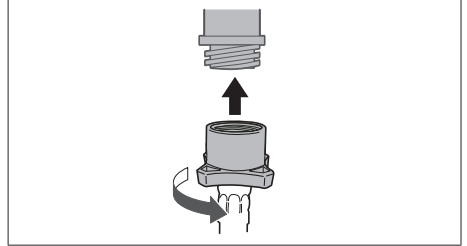
Joint type



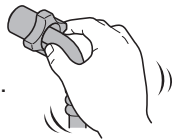
Screw type



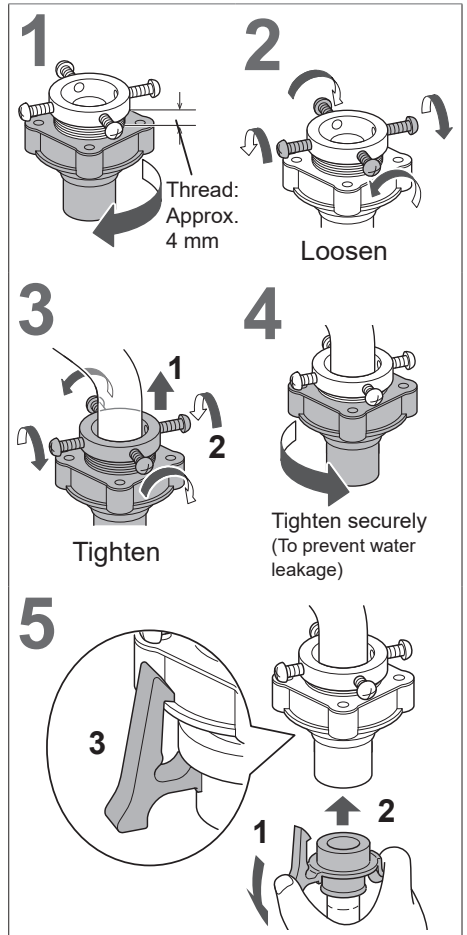
■ Screw type



Check that the elbow is not loose.



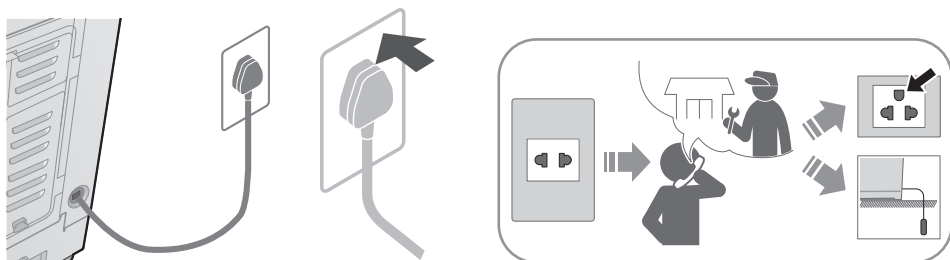
■ Joint type



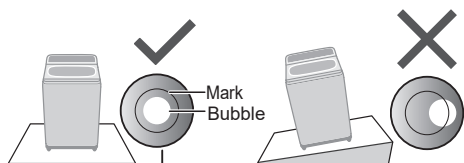
### CAUTION

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

## Connect the power plug and grounding

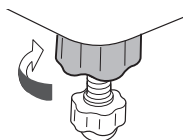


## Check that the washing machine is level

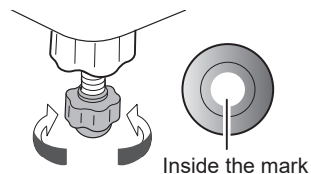


### ■ If the bubble is out of the mark

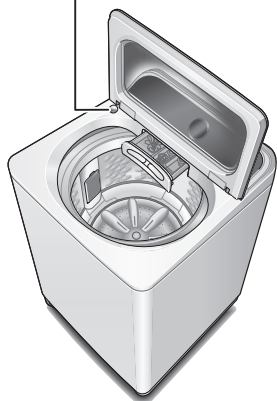
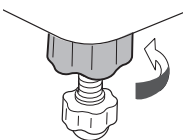
Loosen



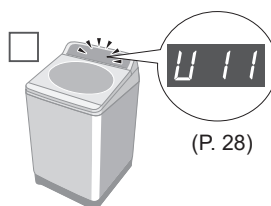
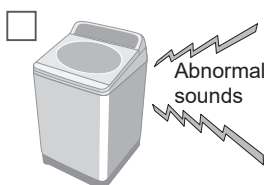
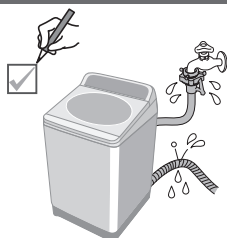
Adjust



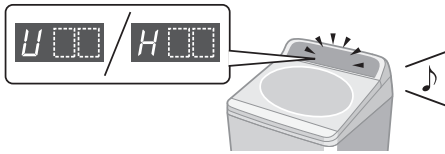
Tighten



## Trial operation



# Error Display



## ■ Preparation



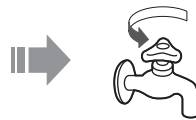

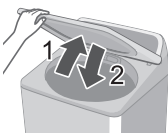
Cancel Child Lock (P. 18)  
if it is set.

Error Display	Points to be checked
<p><b>U 11</b></p> <p>Water cannot drain.</p>	<p><b>1</b> Check</p> <p><b>2</b></p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>✗</p> </div> <div style="text-align: center;"> <p>✗</p> <p>Lint</p> </div> <div style="text-align: center;"> <p>✗</p> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;"> <p>✗</p> <p>Over 10 cm</p> </div> <div style="text-align: center;"> <p>✗</p> <p>Over 3 m</p> </div> </div>
<p><b>U 12</b></p> <p>The lid is open.</p>	<p><b>1</b></p>
<p><b>U 13</b></p> <p>Spin or "Air Dry" is not possible.</p>	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Uneven</p> </div> <div style="text-align: center;"> <p><b>1</b> Even</p> </div> <div style="text-align: center;"> <p><b>2</b></p> </div> </div> <hr/> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Unstable or incline</p> </div> <div style="text-align: center;"> <p><b>1</b> Stable</p> </div> <div style="text-align: center;"> <p><b>2</b></p> </div> </div>

Error Display	Points to be checked
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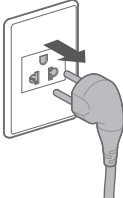


**U 14**

**Water cannot be supplied.**

<p>Water outage</p> 	<p>Turned off</p> 	
<p>1</p>  <p>Water supply filter (P. 22)</p>	<p>2</p> 	


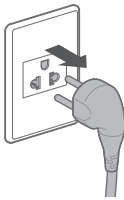
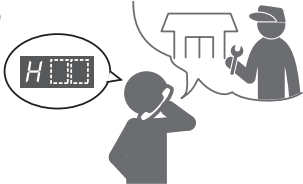
**U 99**

**Water has been forcibly drained.**








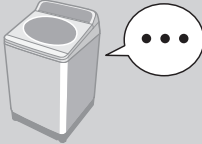

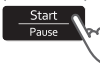

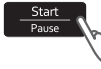


<p>With Child Lock set</p> 		<p>Forcible drainage</p> 
<p>1</p> 	<p>5 sec</p> 	<p>10 sec</p> 












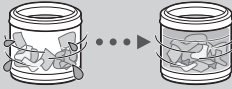

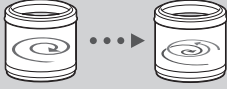
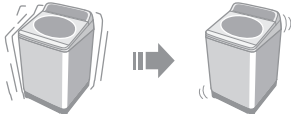
**H 00**

**Inspection is required.**




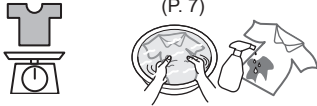


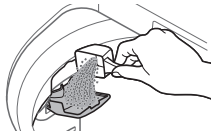
<p>1</p> 	<p>2</p> 	<p>3</p> 
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# Troubleshooting

	Symptoms	Points to be checked
Time	<p><b>Indication increases or does not decrease.</b></p> 	<p>Time indication is approximate. Remaining time is corrected during operation.</p> 
	<p><b>Longer than the indication.</b></p> 	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 5px; width: 30%;"> <p>When clothes are uneven.</p>  </div> <div style="border: 1px solid black; padding: 5px; width: 30%;"> <p>When the water drainage is not good.</p>  </div> <div style="border: 1px solid black; padding: 5px; width: 30%;"> <p>When the water supply is not good.</p>  </div> </div> <p style="text-align: center;">⇒ The operation time may be longer.</p>
	<p><b>Operation passes the preset time.</b></p> 	
Main unit	<p><b>No operation</b></p> 	
	<p><b>Cannot change process settings (after start).</b></p> 	<p><input type="checkbox"/> Try</p> <ul style="list-style-type: none"> <li>● During wash process           <ol style="list-style-type: none"> <li>1 Pause </li> <li>2 </li> <li>3 Start </li> </ol> </li> <li>● After wash process           <ol style="list-style-type: none"> <li>1 Off </li> <li>2 On </li> </ol> </li> </ul>

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

# Troubleshooting (continued)

	Symptoms	Points to be checked
	<b>Power failure/Breaker off.</b> 	Operation will resume from where it stopped when the power is recovered. 
Others	<b>StainMaster+ has no effect.</b> 	<input type="checkbox"/> Check <input type="checkbox"/> Try <ul style="list-style-type: none"> <li>● Under 5.0 kg      ● Pretreatments (P. 7)</li> <li>● Select according to the stain type. (P. 11)</li> </ul>  
	<b>Powder detergent remains undissolved.</b> 	<input type="checkbox"/> Try Put it in the bleach inlet. (P. 12) 

## Specifications

Model No.	NA-FD16V1		NA-FD14V1	
	Rated voltage	220 V - 240 V	230 V	220 V - 240 V
Rated frequency	50 Hz	60 Hz	50 Hz	60 Hz
Rated power consumption	1475 W - 1750 W	1600 W	1475 W - 1750 W	1600 W
Standard water amount	99 L		93 L	
Maximum capacity (Dry cloth)	16.0 kg		14.0 kg	
Product dimensions	679 mm (W) x 755 mm (D) x 1100 mm (H)			
Product weight	48 kg			
Pressure of tap water	0.01 - 1 MPa			

Panasonic Corporation

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