

Operating & Installation Instructions

Fully Automatic Washing Machine
(Household Use)

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



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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.

AWW9901CFSC0-0C0

A0724-0(S)

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Safety Precautions



WARNING

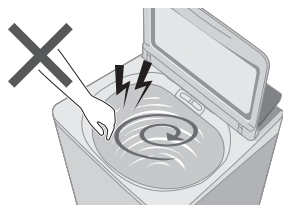
May cause serious injury or death.

Children must not use it alone.

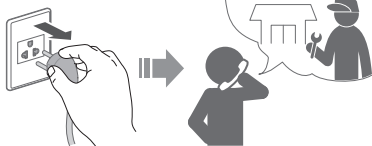


- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children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

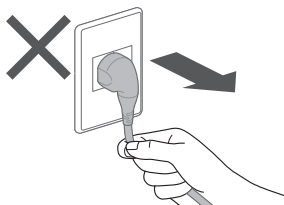


May cause fire or electric shock.

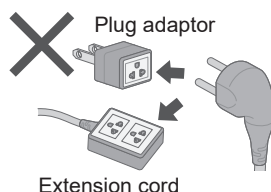
Do not touch it with wet hands.



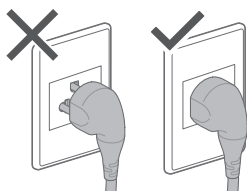
Do not hold or pull on the cord.



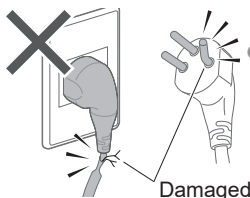
Do not use.



Fully insert it.

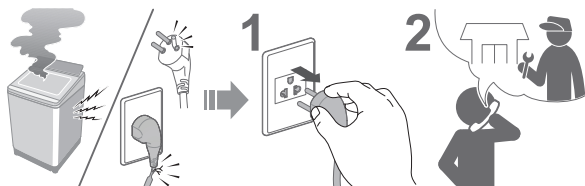


Do not use.

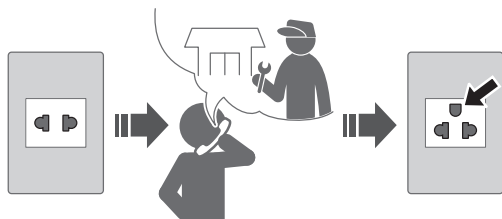


- If the power cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

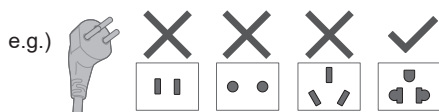
In case of failure or damaged power cord, stop use and ask the service centre.



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

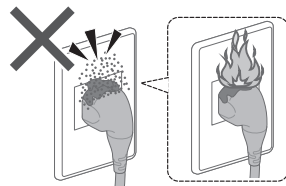


Use a socket appropriate for this appliance.



- 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.

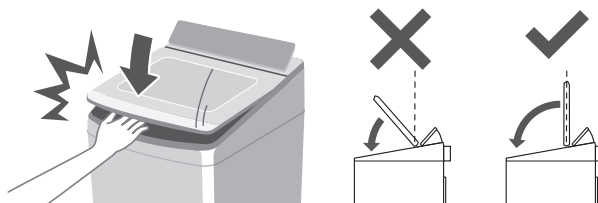


Safety Precautions (continued)

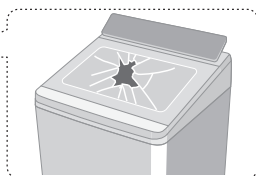
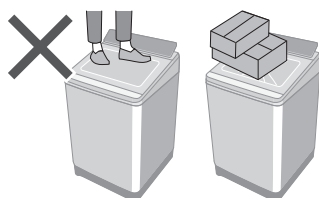
CAUTION

May cause injury.

Be careful not to get your fingers caught.



Do not climb or put objects on the appliance.

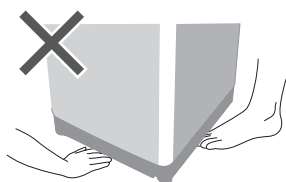


- If the lid is broken, immediately stop using.

Do not touch when it is hot.

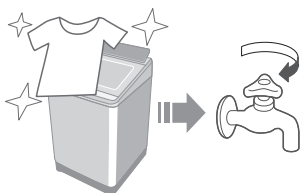


Be careful of your hands and feet.

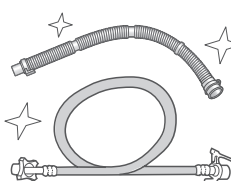


May cause water leakage.

Turn off the water faucet.



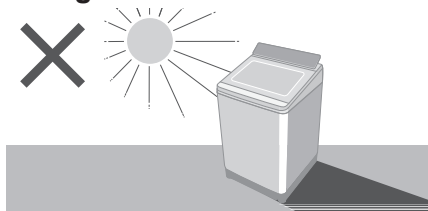
Use new hose-sets.



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

May cause failure.

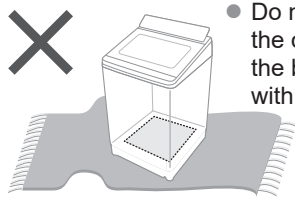
Keep away from heat and direct sunlight.



Do not wash waterproof items.

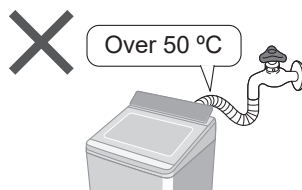


Do not obstruct.



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

Do not use hot water.



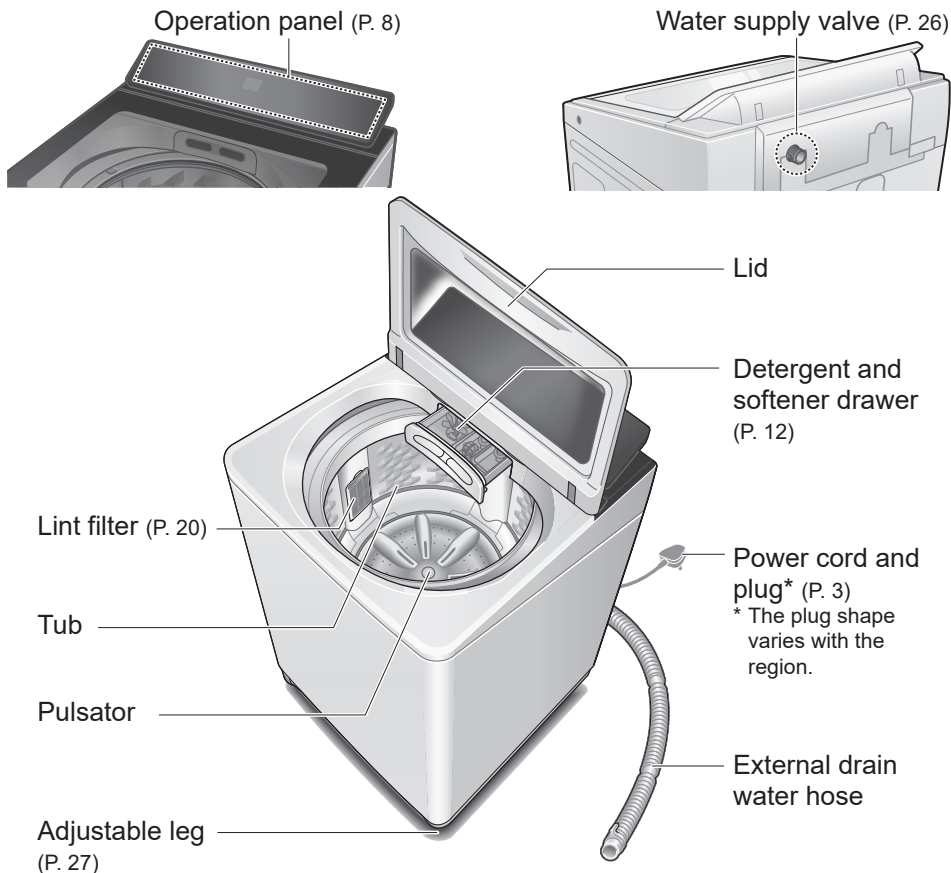
For Machine-washable items only.



- 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.

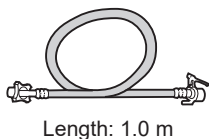
Part Names / Accessories

Part names



Accessories

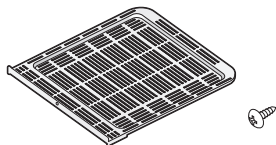
☐ Water supply hose (1)
(P. 26)



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



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



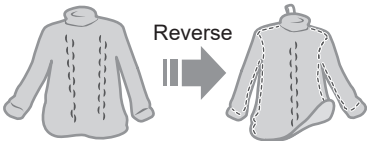
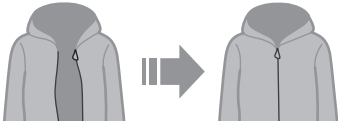
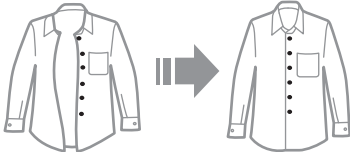
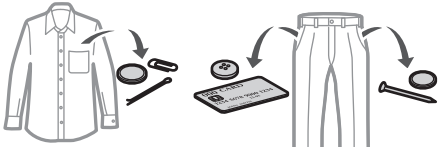
☐ Water tap adaptor (1) (P. 26)



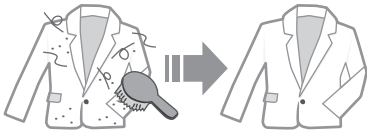
Before Washing

Laundry preparation and check

Pre-laundry check

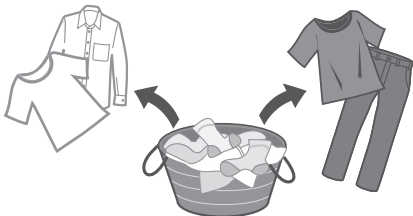


Clothes likely to pill

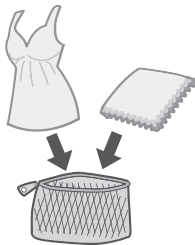


Paper diapers

To prevent colour staining



Use laundry nets for delicates



For "Stain Master +" (P. 16)

- Pretreatments for heavily stains



- Observe the clothes' care labels



- For 

- 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

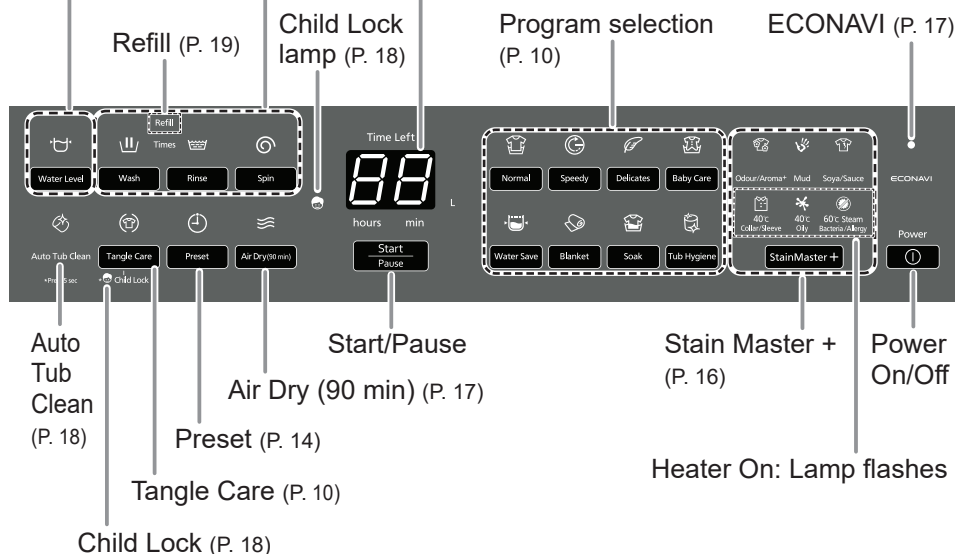
Detergent volume

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

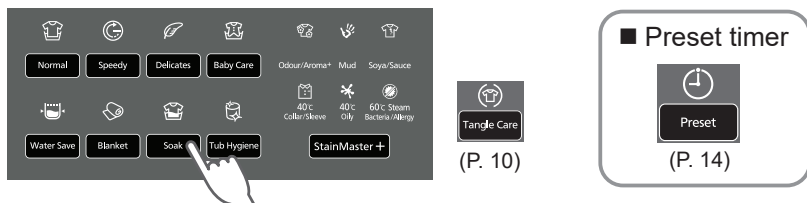
- In case of a power failure.
⇒ Operation will resume from where it stopped when the power recovers.
- If you do not press **Start/Pause** within 10 minutes after power-on.
⇒ Auto power off.
- The wash process setting of the “Stain Master +” and “Soak” programs cannot be changed.

Washing

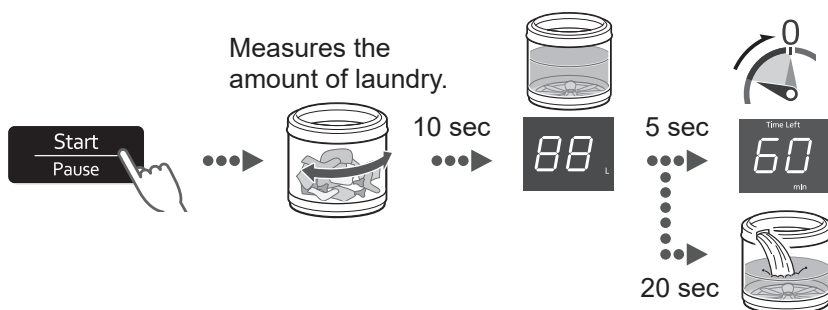
1



2



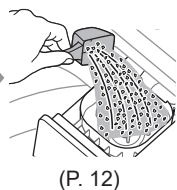
3



4

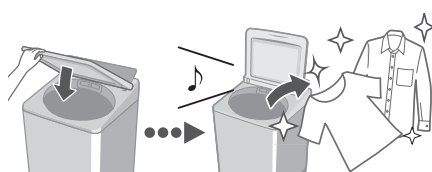


(P. 8)



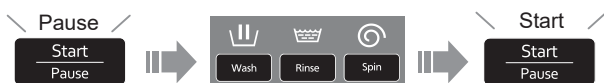
(P. 12)

5



■ After pressing “Start”













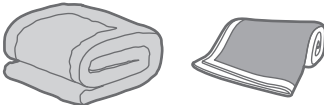
- To change each operation (while washing).







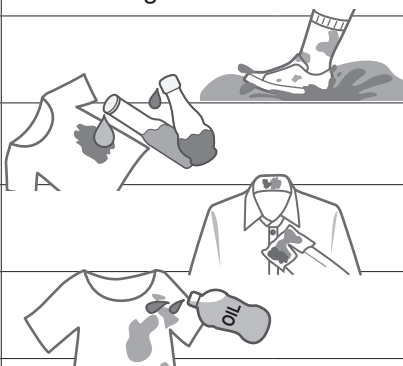









- To check or change the water level (while washing).
- You cannot change the program.



Variety of Programs

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

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

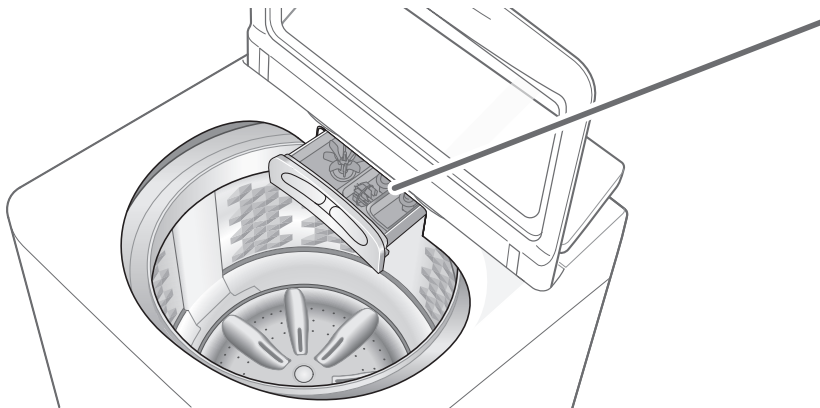
	Program	Purpose	Max. capacity * (kg)
Wash	 Soak (P. 9)	<ul style="list-style-type: none"> For heavy soil Presoaking to wash 	16.5 14.5
	StainMaster + (P. 16)	<ul style="list-style-type: none"> For the following stains 	6.0
	Light Odour/ Aroma+ 	<ul style="list-style-type: none"> Use more softener to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

NOTE

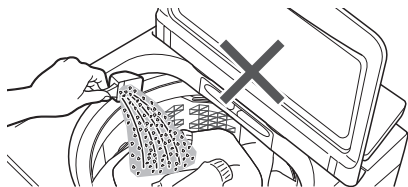
- “Normal” program and “Water Save” program are recommended for a normally soiled load at the rated capacity of this washing machine.
- “Water Save” program is recommended for use in Singapore.

Detergent / Softener / Bleach

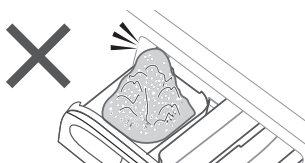
- Follow the instructions on each package.
- For cleaning (P. 21)
- Close auto dosing drawer completely before use.



Detergent



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

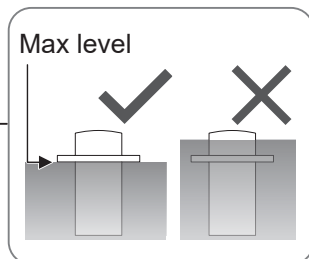
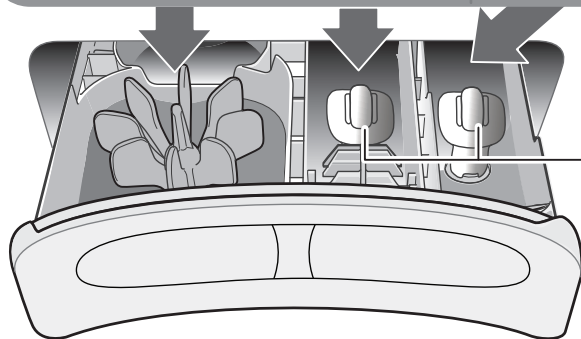
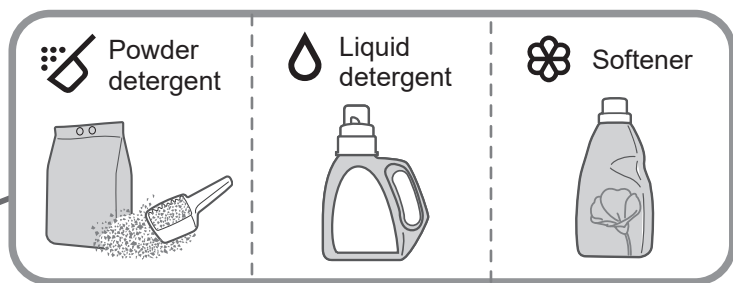


Bleach

Whiten bleach
(chlorine bleach)

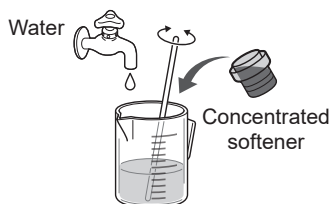


- To use bleach, put bleach in the powder detergent case (if bleach is in powder form) or liquid detergent case (if it is liquid bleach).



Softener

- To put softener while the machine is operating:



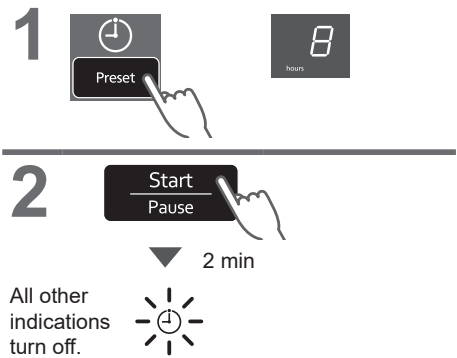
Do not use separated or solidified softeners

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

Washing Options

Preset

Set how many hours later to finish operation.



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	-

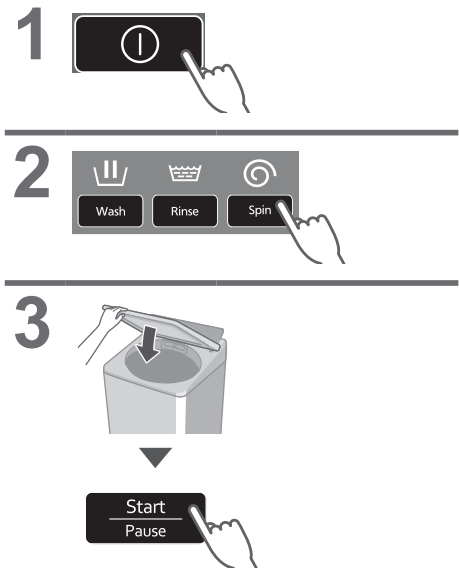
■ To confirm



■ To cancel or change



Wash / Rinse / Spin



NOTE

- Not available for "Tangle Care".



Delicates

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

NOTE



Bleach

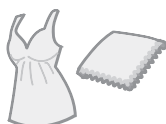


Liquid delicate detergent

■ After operation ends



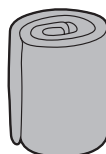
Take out immediately.



Blanket

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

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



NOTE



Powder detergent



Liquid detergent

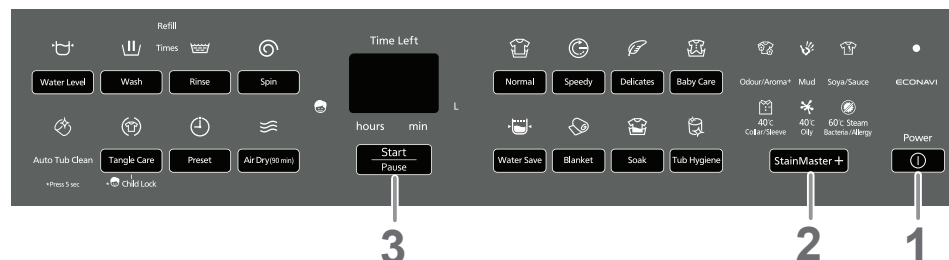
NOTE

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

Washing Options (continued)

Stain Master +

Preparation: (P. 7)



1



2

StainMaster +

■ Timer preset (hours) (P. 14)

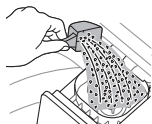
Collar/Sleeve:	3 - 24
Oily:	3 - 24
Bacteria/Allergy:	4 - 24
Others:	2 - 24

3

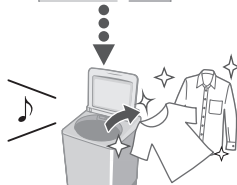
Start
Pause

4

8 L

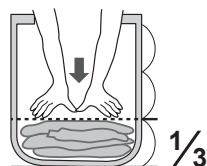


5



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

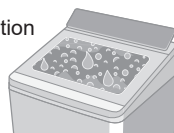
40 °C Collar/Sleeve	40 °C Oily	60 °C Steam Bacteria/Allergy
------------------------	---------------	---------------------------------

- 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.

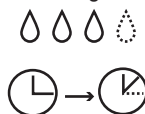
ECONAVI

● “Normal” program only

Weight / Temperature



Water and time saving*



■ Lamp indications



Detecting



ECONAVI enabled



ECONAVI disabled

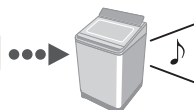
■ To turn on/off



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

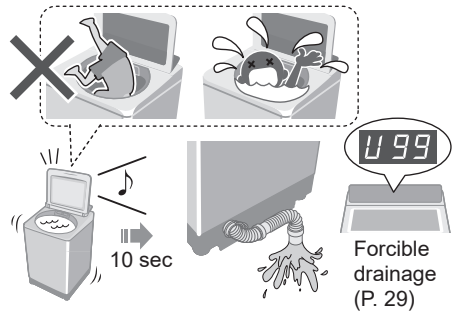
Cancelling end buzzer

- 1 & Hold 3 sec

■ To reset:

same procedure

Setting Child Lock

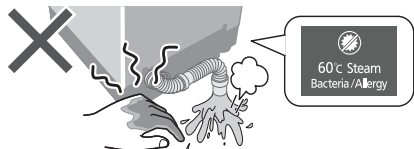


* This function does not lock the lid and button operations.










- 1
- 2 Hold 5 sec

■ To cancel: same procedure



NOTE



Contents of Programs

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

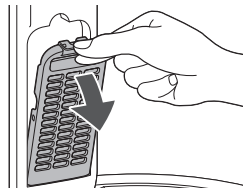


Maintenance

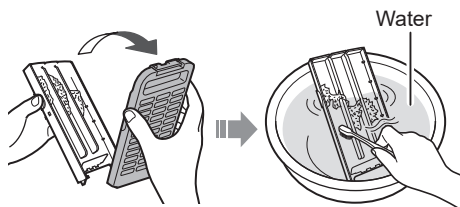
Lint filter

After each operation

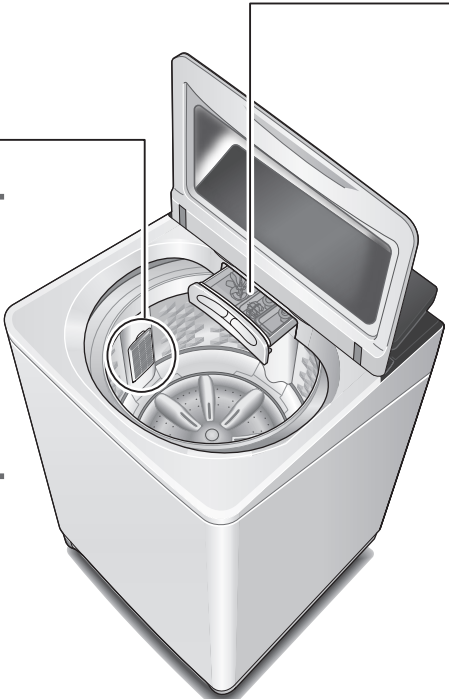
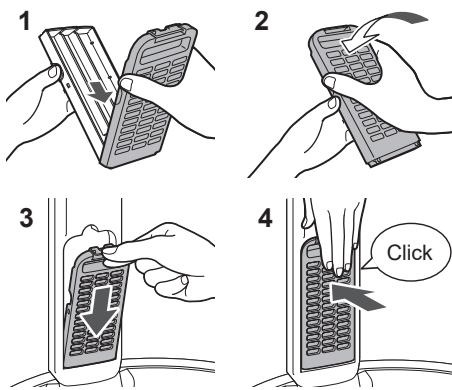
1



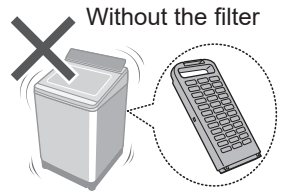
2



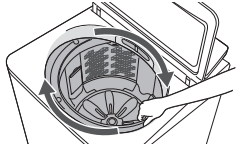
3



NOTE



If it is difficult to remove the filter



If the filter is broken



Detergent and softener drawer

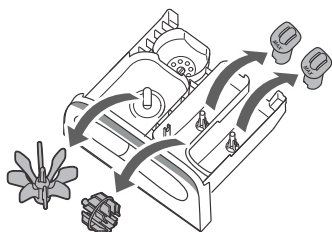
If stained with detergent or softener

1

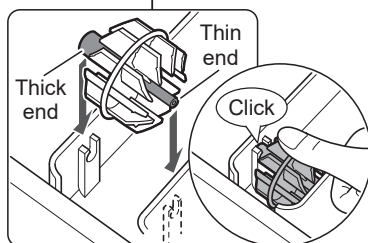
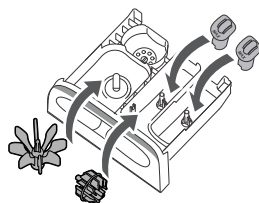


Remove

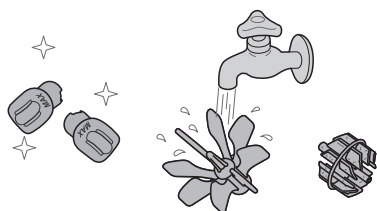
2



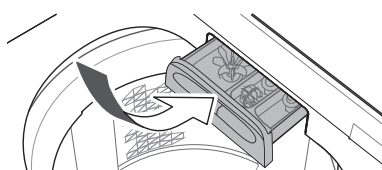
4



3



5



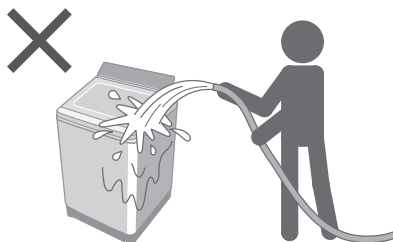
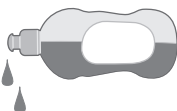
Attach

Main unit, lid



For heavy soil

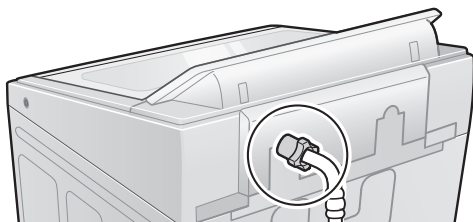
Neutral kitchen detergent



Maintenance (continued)

Water supply filter

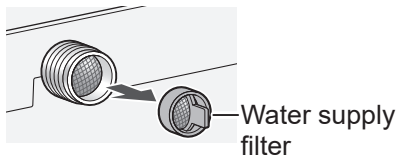
If water does not flow smoothly



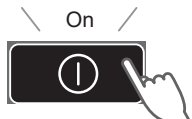
1



5



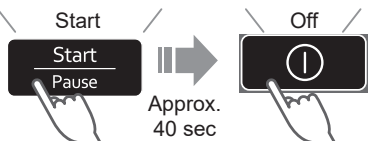
2



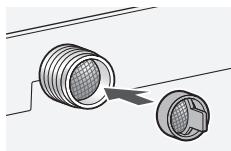
6



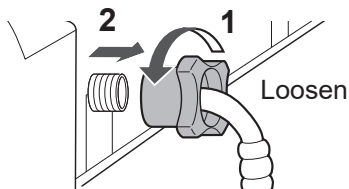
3



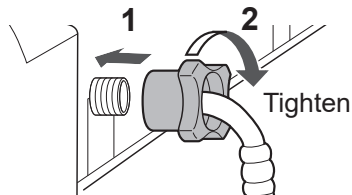
7



4

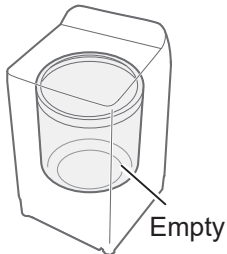


8



Tub

Once a week <Air Dry>

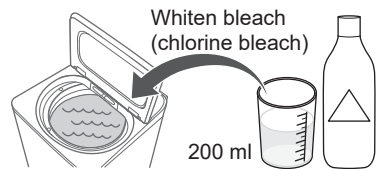


Once a month <Tub Hygiene>

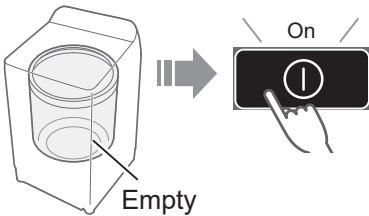
1



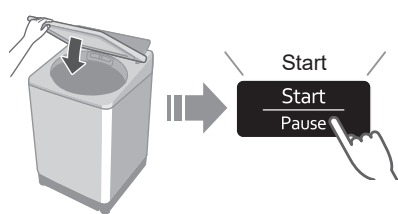
5



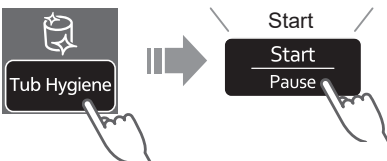
2



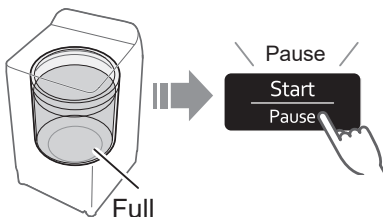
6



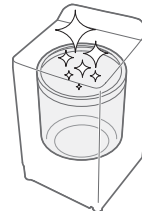
3



4

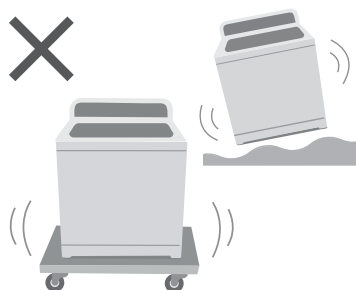
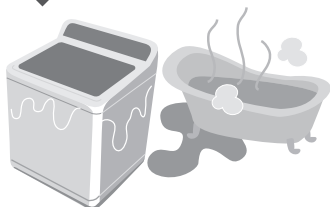


Approx. 2.5 hours



Installation

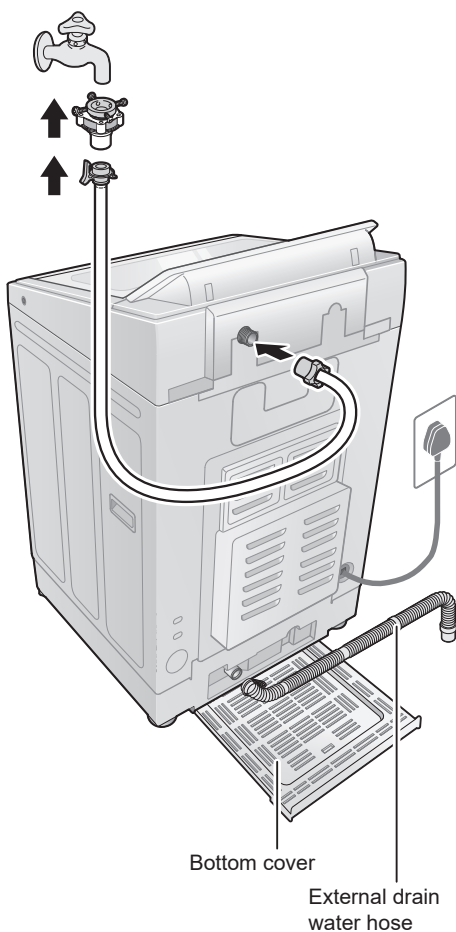
Check the location.



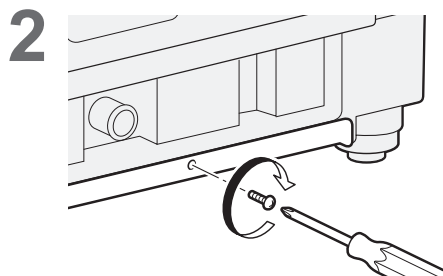
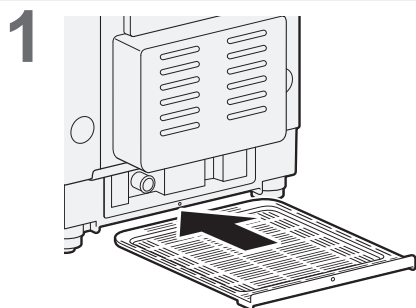
Make sure to ask a service person for installation.



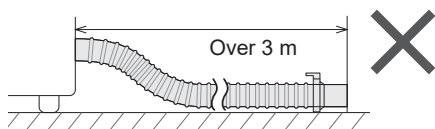
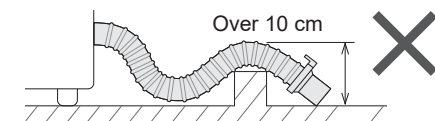
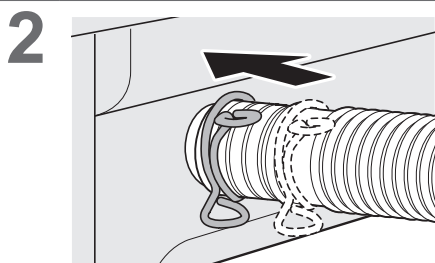
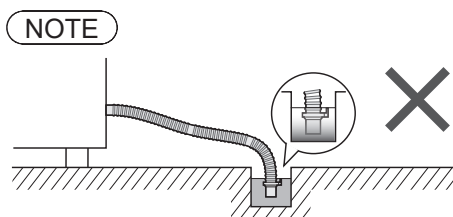
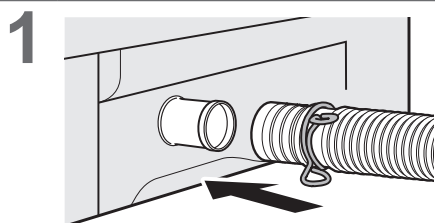
- Do not install by yourself.
- Follow this installation method.
If you do not, Panasonic will not be liable for any accident or damage.



Attach the bottom cover

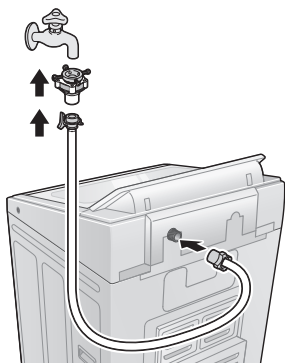


Attach the external drain water hose

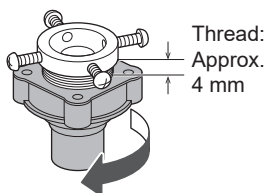


Installation (continued)

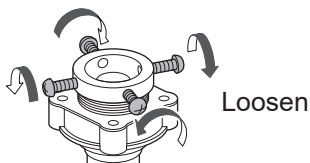
Connect the water supply hose



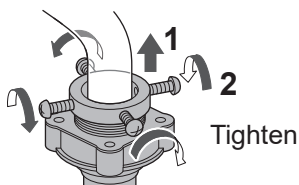
1



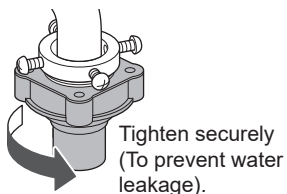
2



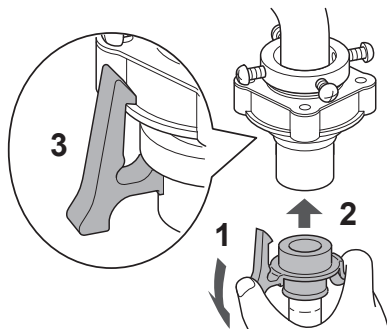
3



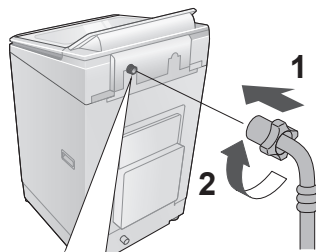
4



5



6



3

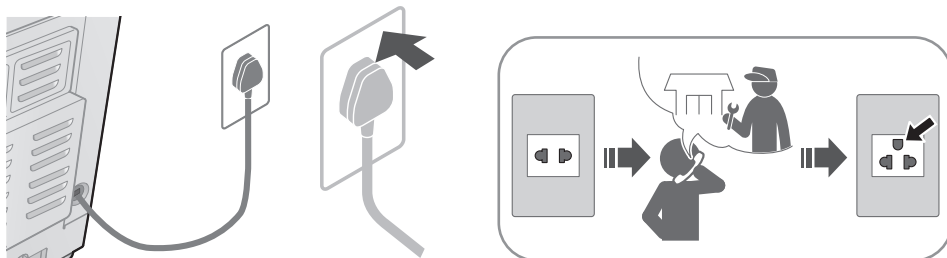
Check that the elbow is not loose.



CAUTION

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

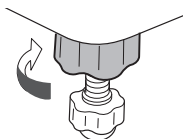
Connect the power plug and grounding



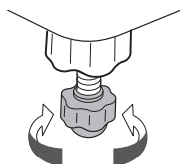
Check that the washing machine is level

■ If the washing machine wobbles

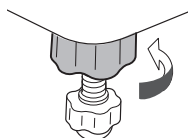
Loosen



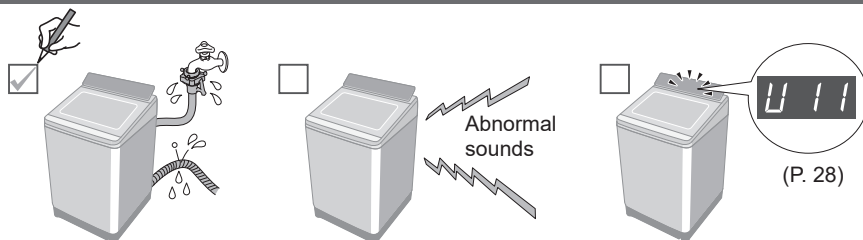
Adjust



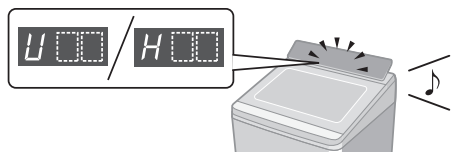
Tighten



Trial operation



Error Display







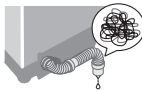



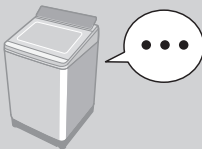













■ Preparation

















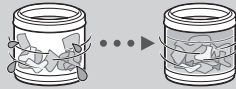

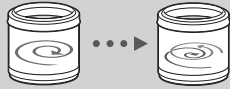
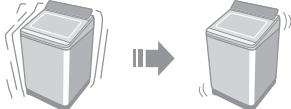
Cancel Child Lock (P. 18)
if it is set.

Error Display	Points to be checked
<p>Water cannot drain.</p>	<p>1 Check</p> <p>2</p> <div style="display: flex; justify-content: space-around;"> <div> </div> <div> <p>Lint</p> </div> <div> <p>Over 10 cm</p> </div> </div> <div style="display: flex; justify-content: space-around;"> <div> <p>Over 3 m</p> </div> </div>
<p>The lid is open.</p>	<p>1</p>
<p>Spin or "Air Dry" is not possible.</p>	<div style="display: flex; justify-content: space-around;"> <div> <p>Uneven</p> </div> <div> <p>1 Even</p> </div> <div> <p>2</p> </div> </div> <div style="display: flex; justify-content: space-around;"> <div> <p>Unstable or incline</p> </div> <div> <p>1 Stable</p> </div> <div> <p>2</p> </div> </div>










Error Display	Points to be checked
<div data-bbox="104 531 258 598" data-label="Text"> <p>U 14</p> </div> <div data-bbox="97 611 266 675" data-label="Text"> <p>Water cannot be supplied.</p> </div>	<div data-bbox="308 400 924 587" data-label="Image"> </div> <div data-bbox="303 635 840 798" data-label="Image"> </div>
<div data-bbox="104 970 258 1037" data-label="Text"> <p>U 99</p> </div> <div data-bbox="97 1050 266 1137" data-label="Text"> <p>Water has been forcibly drained.</p> </div>	<div data-bbox="303 842 1021 1054" data-label="Image"> </div> <div data-bbox="303 1077 714 1278" data-label="Image"> </div>
<div data-bbox="104 1345 258 1412" data-label="Text"> <p>H</p> </div> <div data-bbox="97 1425 266 1489" data-label="Text"> <p>Inspection is required.</p> </div>	<div data-bbox="303 1316 1008 1517" data-label="Image"> </div>

Troubleshooting

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

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

Troubleshooting (continued)

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