Panasonic®

Operating & Installation Instructions

Fully Automatic Washing Machine
(Household Use)

Model No. NA-FD180X3
NA-FD160X3
NA-FD145X3

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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.

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A0724-0(P)
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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.

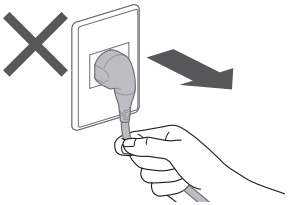
Do not touch the tub until it stops.

- If the tub does not stop within 15 sec:

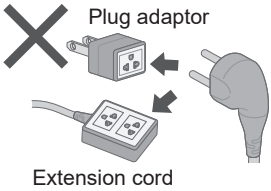
May cause fire or electric shock.

Do not touch it with wet hands.

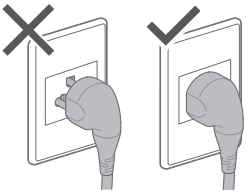
Do not hold or pull on the cord.



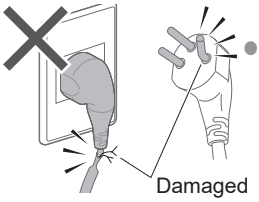
Do not use.



Fully insert it.

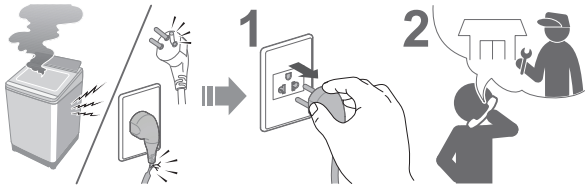


Do not use.

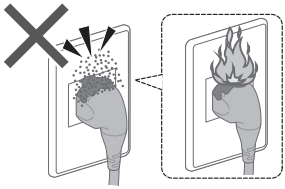


- **If the power cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.**

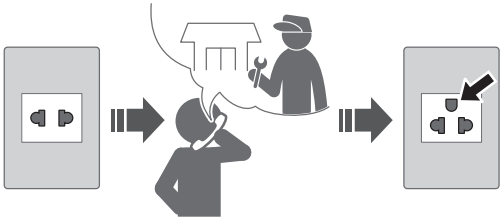
In case of failure or damaged power cord, stop use and ask the service centre.



Accumulated dust may cause fire.



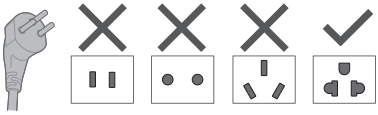
Securely insert the ground prong. Call your local dealer for a new socket.



Wipe the power plug periodically.

Use a socket appropriate for this appliance.

e.g.)



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

Keep away from flammable materials.

May cause failure.

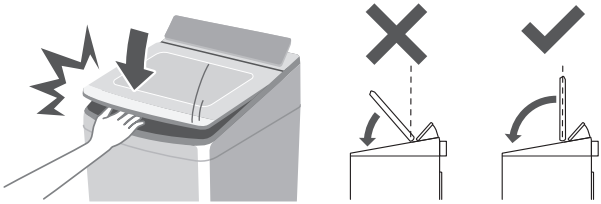
Never disassemble, repair or modify it by yourself.

Safety Precautions (continued)

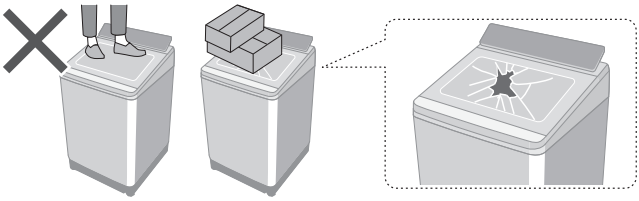
⚠ CAUTION

May cause injury.

Be careful not to get your fingers caught.

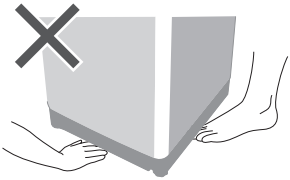


Do not climb or put objects on the appliance.



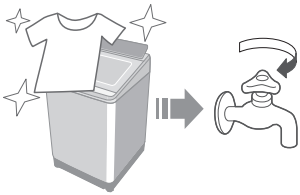
- If the lid is broken, immediately stop using.

Be careful of your hands and feet.

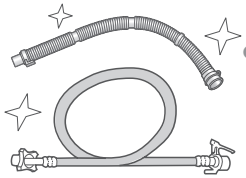


May cause water leakage.

Turn off the water faucet.



Use new hose-sets.

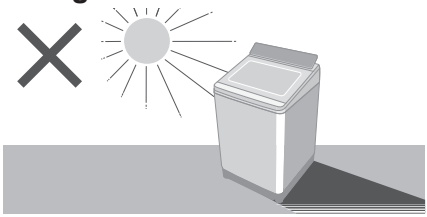


- New hose-sets supplied with the appliance are to be used and old hose-sets should not be reused.

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

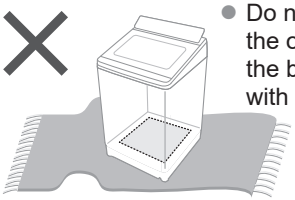
May cause failure.

Keep away from heat and direct sunlight.



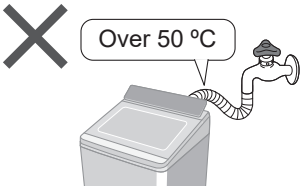
Do not wash waterproof items.

Do not obstruct.



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

Do not use hot water.



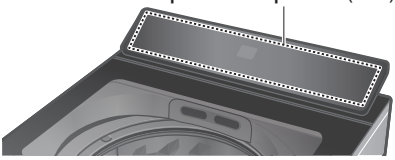
For Machine-washable items only.

- 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 launderettes.

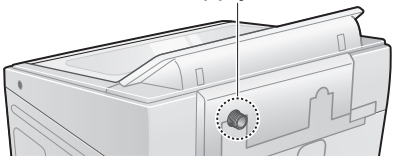
Part Names / Accessories

Part names

Operation panel (P. 8)



Water supply valve (P. 26)



Lid

Detergent and softener drawer (P. 12)

Lint filter (P. 20)

Power cord and plug* (P. 3)

* The plug shape varies with the region.

Tub

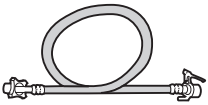
Pulsator

External drain water hose

Adjustable leg (P. 27)

Accessories

☐ Water supply hose (1) (P. 26)

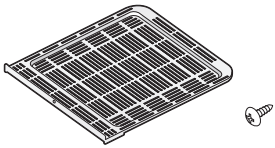


Length: 1.0 m

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

☐ Water tap adaptor (1) (P. 26)

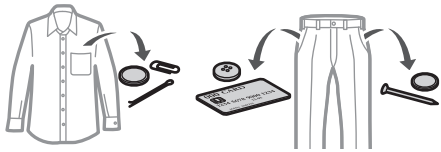
☐ Bottom cover (1) / Screw (1) (P. 25)

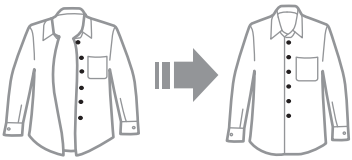


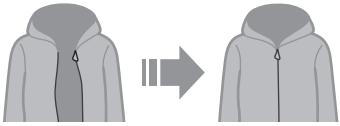
Before Washing

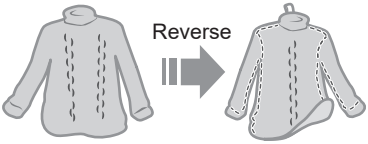
Laundry preparation and check

Pre-laundry check

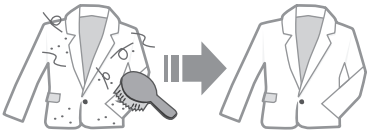






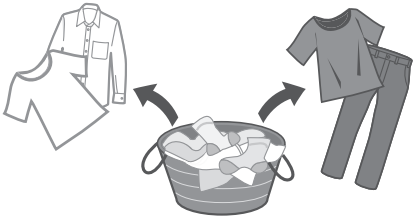


Clothes likely to pill

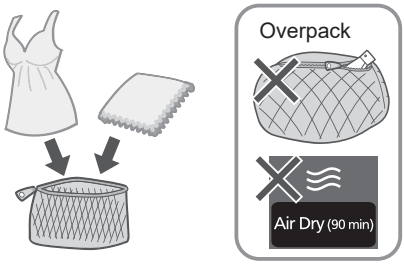


Paper diapers

To prevent colour staining



Use laundry nets for delicates



For "Stain Master" (P. 16)

- Pretreatments for heavily stains

- Observe the clothes' care labels

Operation Panel

Change process settings (P. 14)

Flashing (in progress)

Water amount

Approx. 5 sec

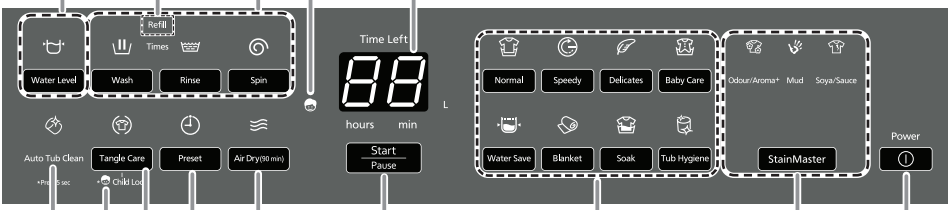
Remaining time

Detergent volume

Water level (L)			Detergent *2
105 *1	88	81	
74	66	59	
52	46	38	
33			

*1 NA-FD180X3: 105 L
NA-FD160X3: 99 L
NA-FD145X3: 93 L
For water amount: 105L display will show A5

*2 : 1 scoop of detergent



Refill (P. 19)

Child Lock lamp (P. 18)

Auto Tub Clean (P. 18)

Tangle Care (P. 10)

Child Lock (P. 18)

Preset (P. 14)

Air Dry (90 min) (P. 17)

Start/Pause

Program selection (P. 10)

Stain Master (P. 16)

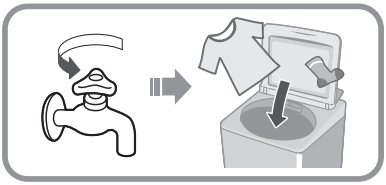
Power On/Off

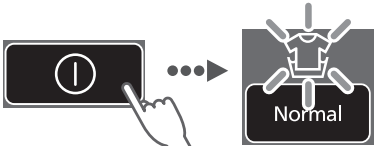
NOTE

- 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





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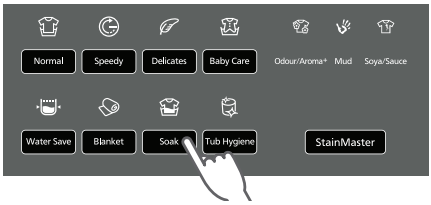


(P. 10)

■ Preset timer

(P. 14)

3

Measures the amount of laundry.

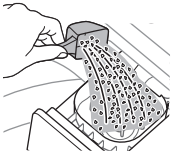
10 sec

5 sec

20 sec

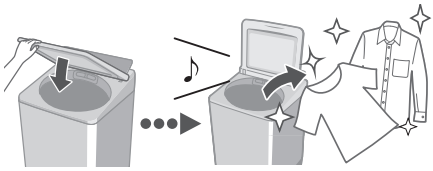
4

(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)	● Everyday clothes	18.0 16.0 14.5
	Tangle Care (P. 9)	● Anti-tangling • Washing more gently than "Normal" to reduce tangle. • Disentangling clothes after spin: 8 kg or less.	
	Speedy (P. 9)	● For light soil	18.0 16.0 14.5
	Delicates (P. 15)	● Washing gently	5.0
	Baby Care (P. 9)	● Clothes for babies & sensitive skin Rinsing thoroughly	18.0 16.0 14.5
	Water Save (P. 9)	● Saving water	18.0 16.0 14.5
	Blanket (P. 15)	● Comforters and blankets With a machine-washable tag	4.2

* Top: NA-FD180X3 / Middle: NA-FD160X3 / Bottom: NA-FD145X3

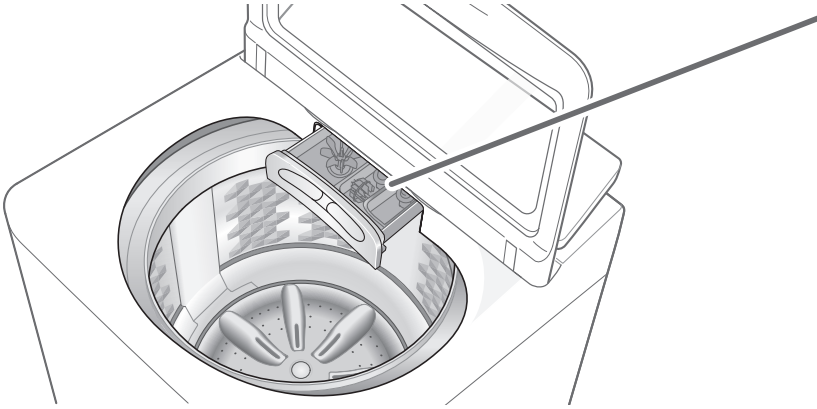
	Program	Purpose	Max. capacity * (kg)
Wash	**Soak** (P. 9)	● For heavy soil Presoaking to wash	18.0 16.0 14.5
Wash	StainMaster (P. 16)	● For the following stains	
Wash	Light **Odour/ Aroma+**	● Use more softener to keep the scent longer	6.0
Wash	**Mud**		5.0
Wash	**Soya/Sauce** Heavy		
Dry	**Air Dry (90 min)** (P. 17, 23)	● Drying synthetic fibre clothes	3.0
Maintenance		● Tub drying	—
Maintenance	**Tub Hygiene** (P. 23)	● Tub cleaning Removing black mould and smell	—

NOTE

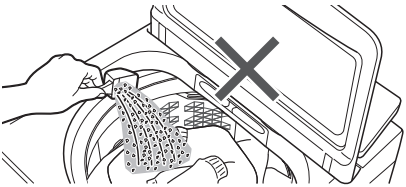
- “Normal” program and “Water Save” program are recommended for a normally soiled load at the rated capacity of this washing machine.

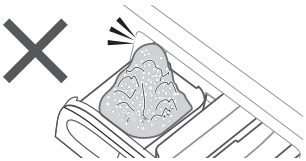
Detergent / Softener / Bleach

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



Detergent



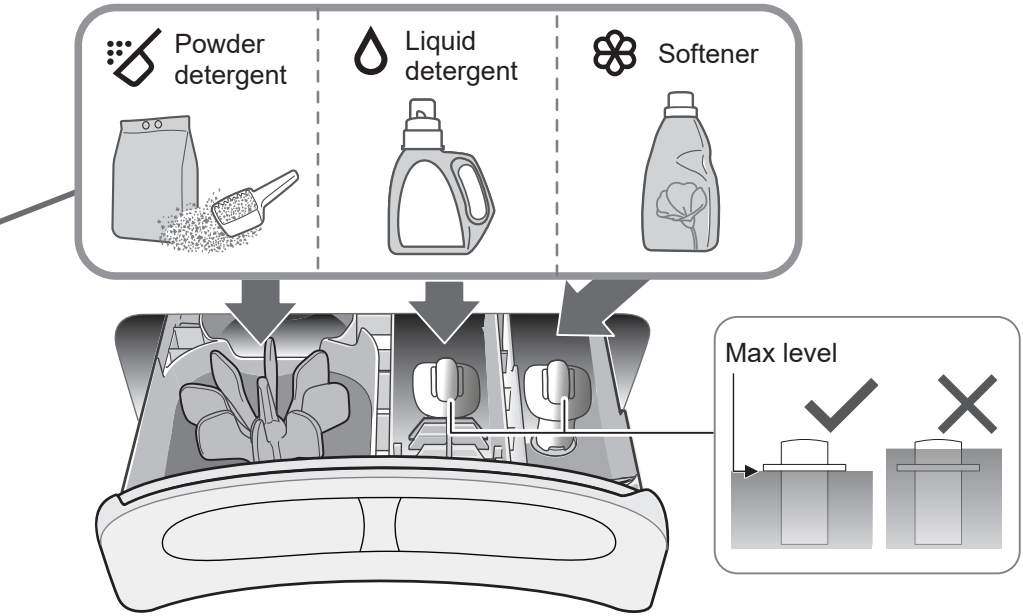


- **Do not pour detergent directly into the tub.**
- The level of foaming depends on the load size, soil, detergent, and water hardness.

Bleach

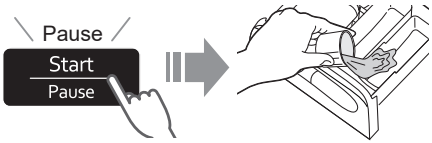
Whiten bleach
(chlorine bleach)

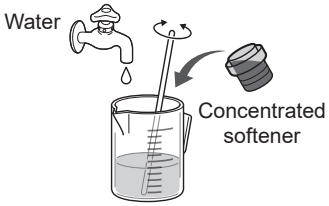
- To use bleach, put bleach in the powder detergent case (if bleach is in powder form) or liquid detergent case (if it is liquid bleach).

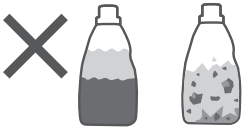


Softener

- 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

2 min

All other indications turn off.

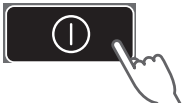
Normal	2 - 24
Speedy	1 - 24
Delicate	-
Baby Care	2 - 24
Water Save	2 - 24
Blanket	-
Soak	3 - 24
StainMaster	2 - 24
Air Dry(90 min)	-
Tub Hygiene	-

■ To confirm

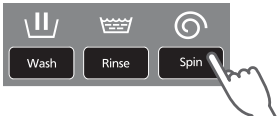
■ To cancel or change

Wash / Rinse / Spin

1



2



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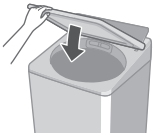


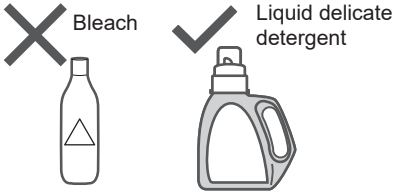
NOTE

- Not available for “Tangle Care”.

Delicates

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

NOTE

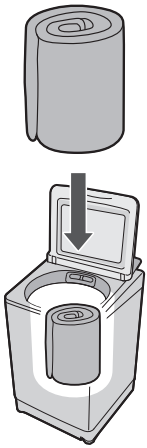


■ After operation ends

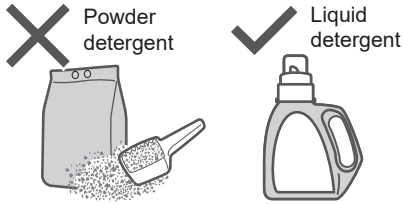
Blanket

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

* NA-FD180X3: 105 L / NA-FD160X3: 99 L / NA-FD145X3: 93 L



NOTE



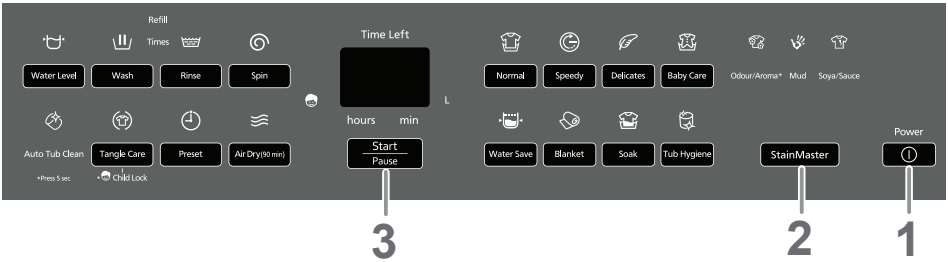
NOTE

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

Washing Options (continued)

Stain Master

Preparation: (P. 7)



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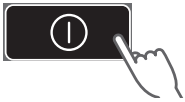

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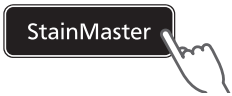
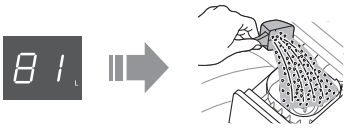


■ Timer preset (hours) (P. 14)

3

4



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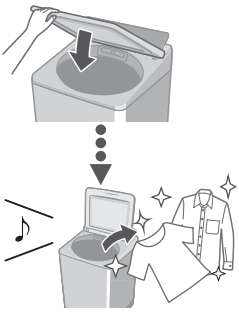
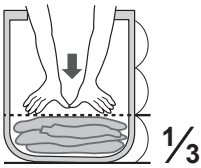


NOTE

- Max. capacity (P. 11)



- Max. water amount: 81 L
- You cannot change the wash process setting of this program.

Air Dry (90 min)

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

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

1

2

3

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.

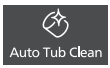
Convenient Functions

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

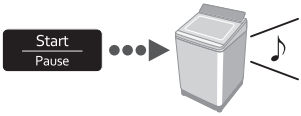
3

Hold 3 sec

4

to select

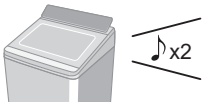
off on

5 

Cancelling end buzzer

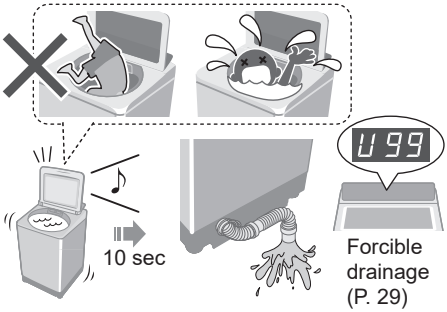
1

Hold 3 sec



■ **To reset:**
same procedure

Setting Child Lock

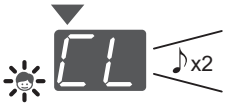


* This function does not lock the lid and button operations.

1

2

Hold 5 sec



■ **To cancel:** same procedure

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
	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 ºC).**

*2 Remaining time of 99 minutes or less will be displayed. [- -] → [99]

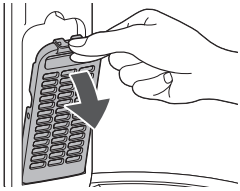
● “Refill”: to fill the tub with water and rinse while supplying water.

Maintenance

Lint filter

After each operation

1



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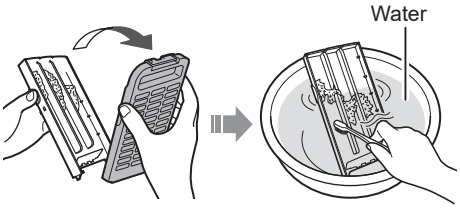

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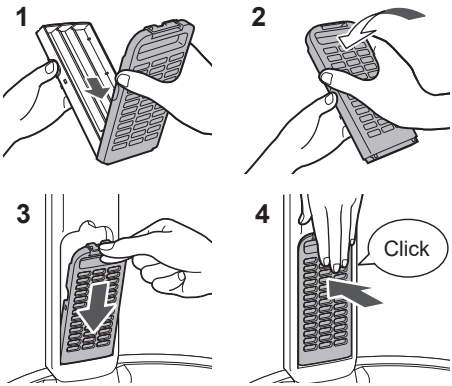
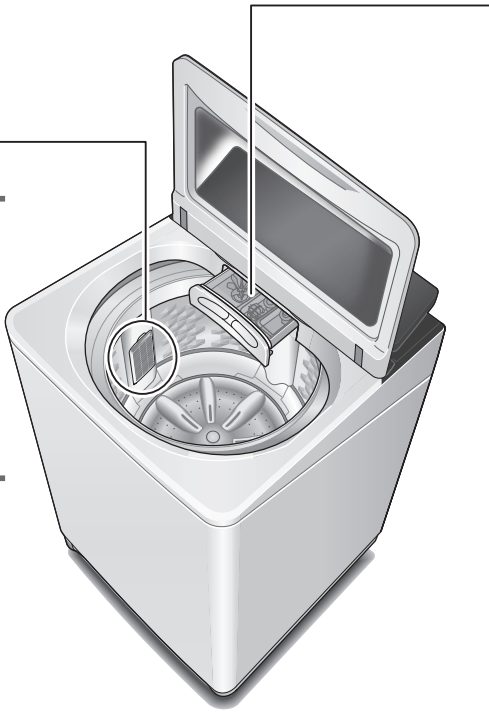
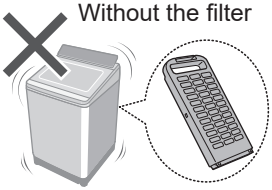


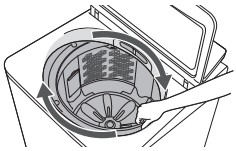


NOTE

Without the filter



If it is difficult to remove the filter

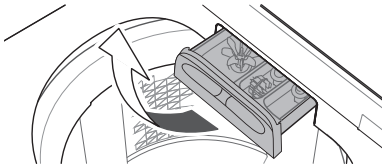


If the filter is broken

Detergent and softener drawer

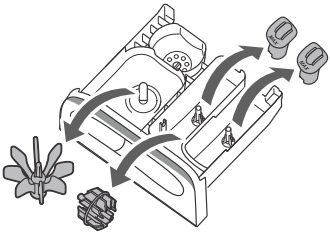
If stained with detergent or softener

1



Remove

2



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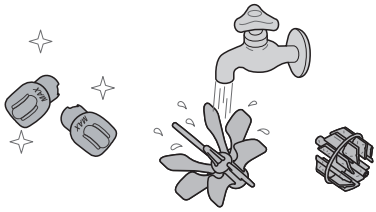

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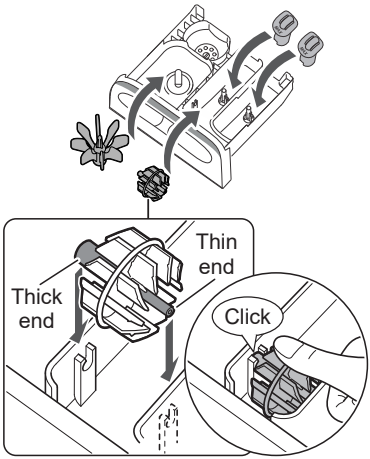

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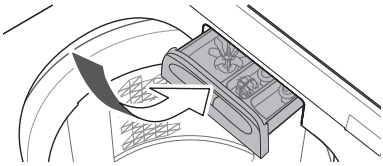
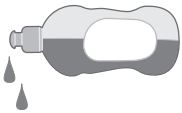


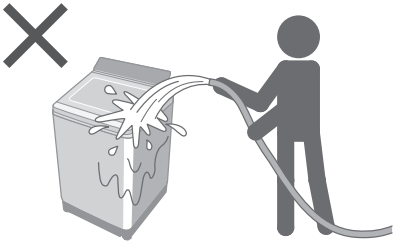
Attach

Main unit, lid

For heavy soil

Neutral kitchen detergent

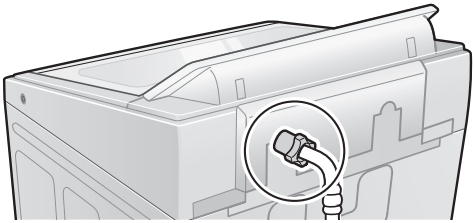




Maintenance (continued)

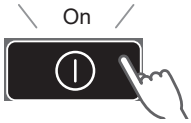
Water supply filter

If water does not flow smoothly



1

2



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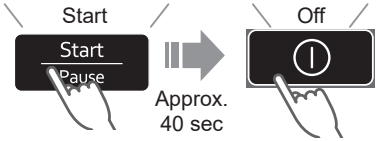

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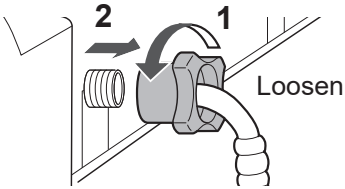

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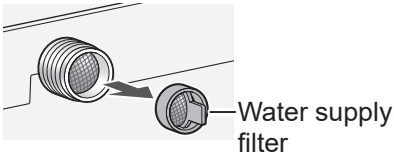

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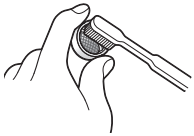

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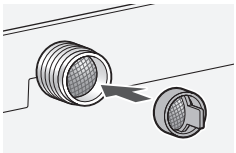

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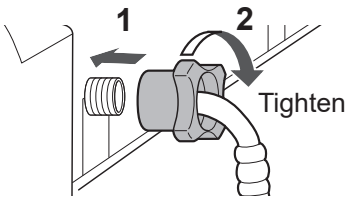
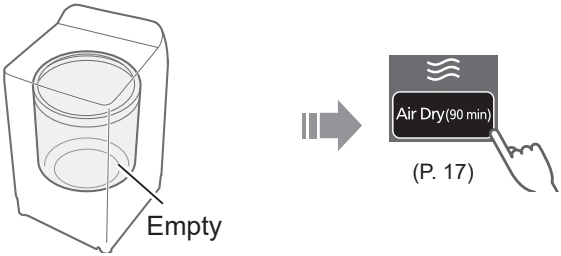


Tub

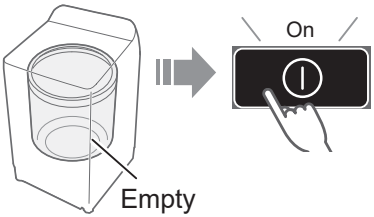
Once a week <Air Dry>



Once a month <Tub Hygiene>

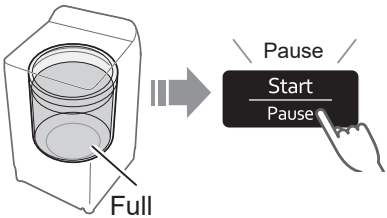
1

2



3

4



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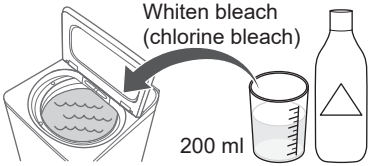

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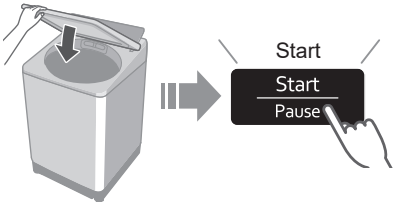


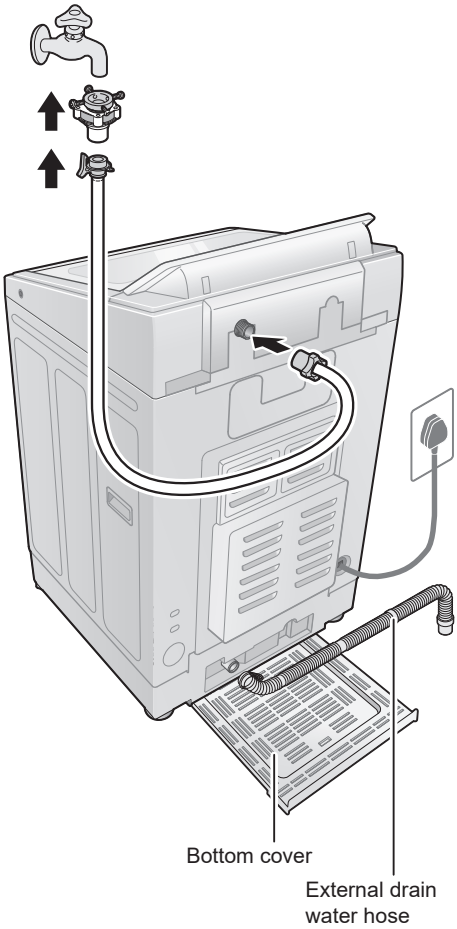
Approx. 2.5 hours

Installation

Check the location.

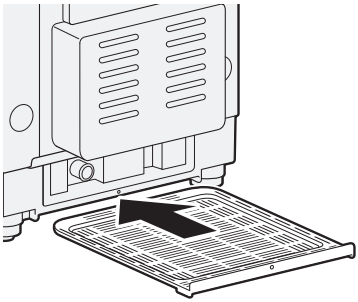
Make sure to ask a service person for installation.

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

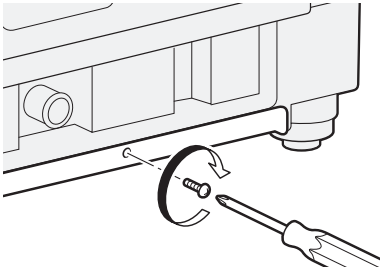


Attach the bottom cover

1

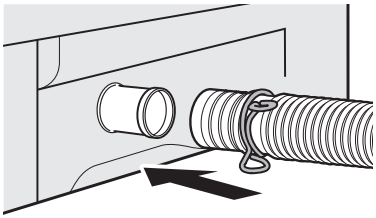


2



Attach the external drain water hose

1



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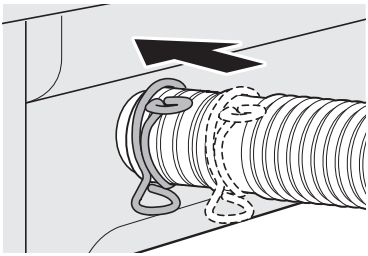
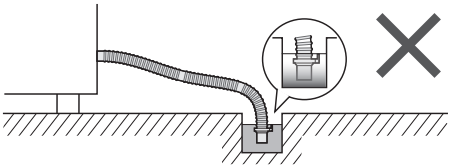
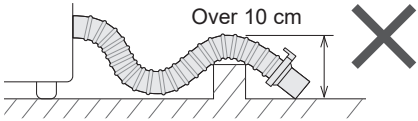
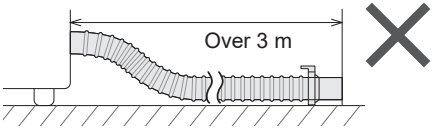


NOTE

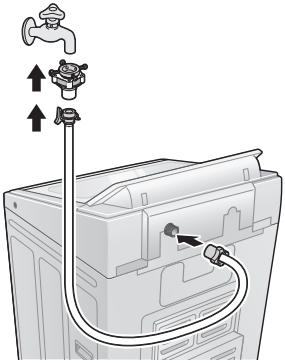






Installation (continued)

Connect the water supply hose



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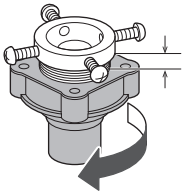

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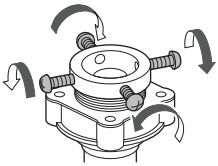

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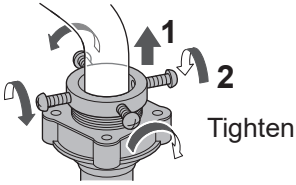

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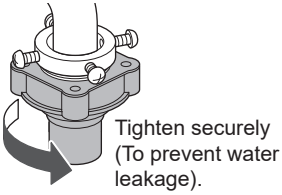

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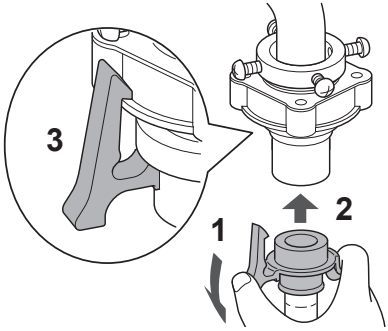

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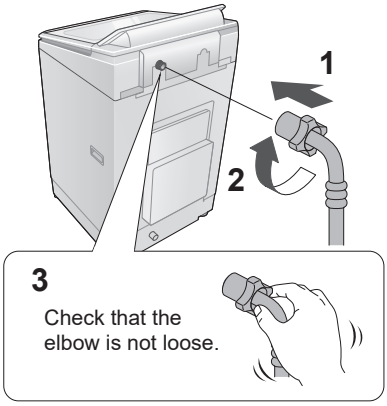
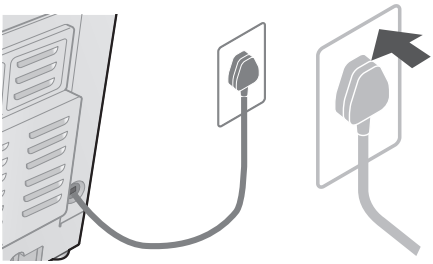
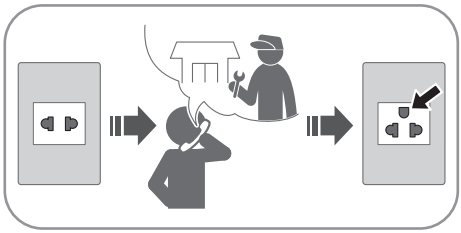


⚠ CAUTION

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

Connect the power plug and grounding

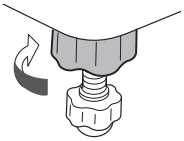




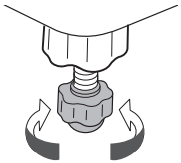
Check that the washing machine is level

■ If the washing machine wobbles

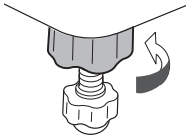
Loosen



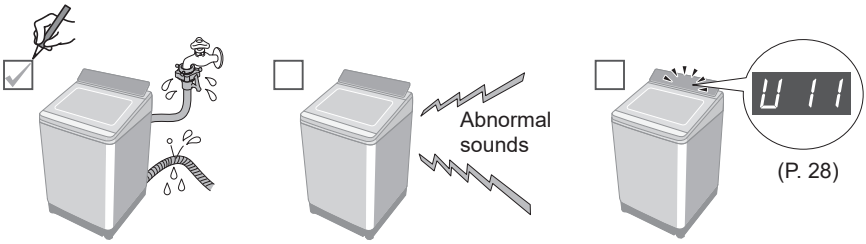
Adjust



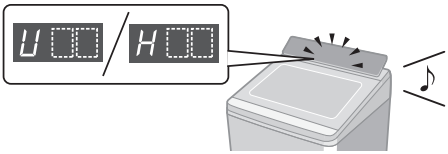
Tighten



Trial operation

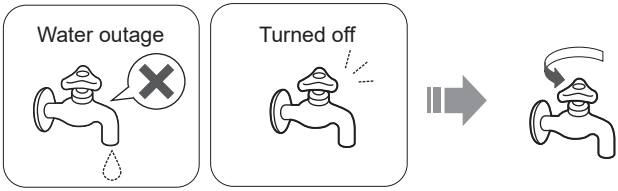
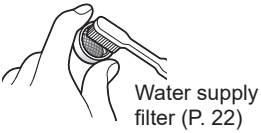
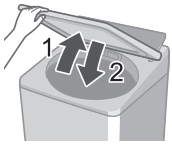
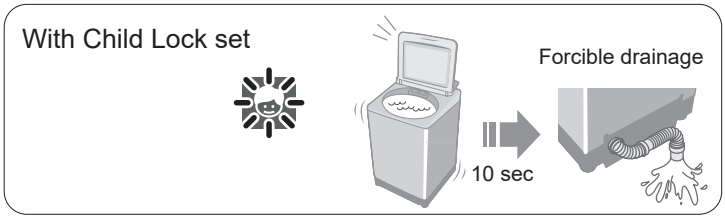
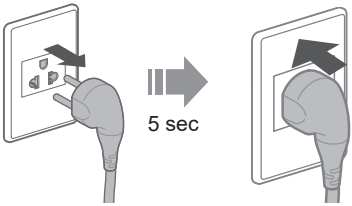
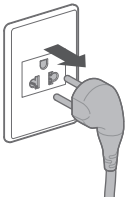
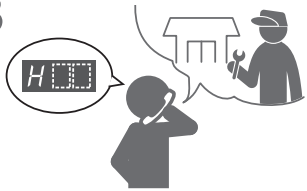


Error Display

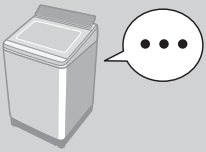
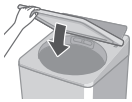


■ **Preparation**
Cancel Child Lock (P. 18) if it is set.

Error Display	Points to be checked
U 11 **Water cannot drain.**	1 Check 2 Lint Over 10 cm Over 3 m
U 12 **The lid is open.**	1
U 13 **Spin or "Air Dry" is not possible.**	Uneven 1 Even 2 Unstable or incline 1 Stable 2

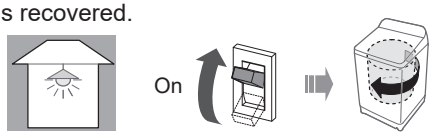
Error Display	Points to be checked
U 14 **Water cannot be supplied.**	 1  2 
U 99 **Water has been forcibly drained.**	 1 
H **Inspection is required.**	1 2  3 

Troubleshooting

	Symptoms	Points to be checked
Time	**Indication increases or does not decrease.**	Time indication is approximate. Remaining time is corrected during operation.
Time	**Longer than the indication.**	When clothes are uneven. When the water drainage is not good. When the water supply is not good. ➡ The operation time may be longer.
Time	**Operation passes the preset time.**	
Main unit	**No operation** 	☐ Check ● Power failure ● Timer preset ☐ Try ● Close the lid.  ● Turn on. ● Insert the power plug completely. ● Press “Start”. ● Turn breaker on.
Main unit	**Cannot change process settings (after start).**	☐ Try ● During wash process ● After wash process

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

Troubleshooting (continued)

	Symptoms	Points to be checked
Others	**Power failure/Breaker off.**	Operation will resume from where it stopped when the power is recovered. 
	StainMaster **has no effect.**	☐ Check ● Max. capacity (P. 11) ☐ Try ● Pretreatments (P. 7) ● Select according to the stain type. (P. 11)

Specifications

Model No.	NA-FD180X3	NA-FD160X3	NA-FD145X3
Rated voltage	220 - 240 V		
Rated frequency	50 Hz		
Rated power consumption	480 W		
Standard water amount	105 L	99 L	93 L
Maximum mass of dry cloth	18.0 kg	16.0 kg	14.5 kg
Product dimensions	681 mm (W) x 747 mm (D) x 1112 mm (H)		
Product weight	48 kg		
Pressure of tap water	0.01 - 1 MPa		

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