Panasonic

Operating & Installation Instructions

Fully Automatic Washing Machine
(Household Use)

Model No. NA-FD180W3



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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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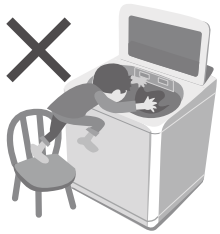
A0724-0(T)
Printed in Vietnam
07-2024

Safety Precautions

⚠ WARNING

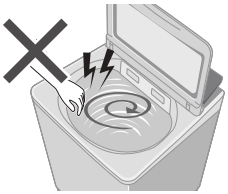
May cause serious injury or death.

Children must not use it alone.

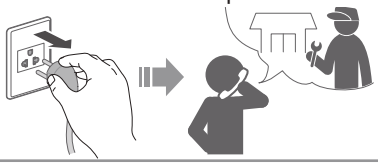


- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children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

Do not touch the tub until it stops.



- If the tub does not stop within 15 sec:

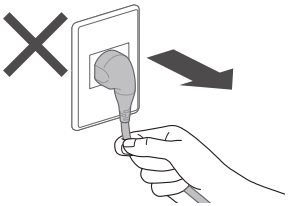


May cause fire or electric shock.

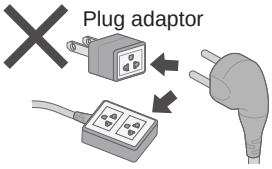
Do not touch it with wet hands.



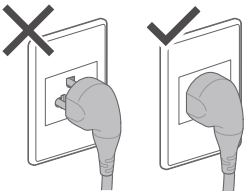
Do not hold or pull on the cord.



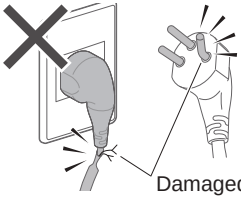
Do not use.



Fully insert it.

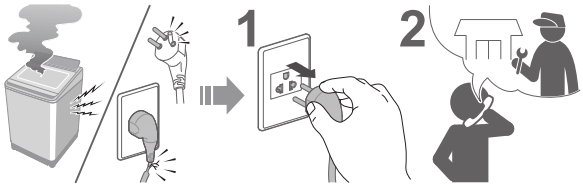


Do not use.

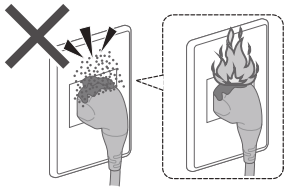


- **If the power cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.**

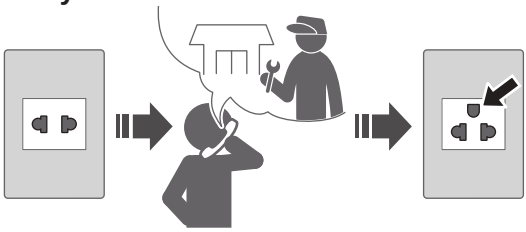
In case of failure or damaged power cord, stop use and ask the electrical technician.



Accumulated dust may cause fire.



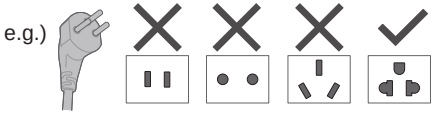
Securely insert the ground prong. Call your local dealer for a new socket.



Wipe the power plug periodically.

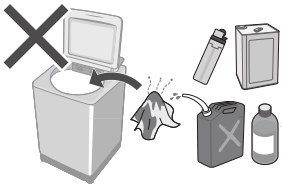


Use a socket appropriate for this appliance.



- 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.



When using the “Panasonic SmartApp+” app

(Cause of malfunction due to radio waves from the appliance)

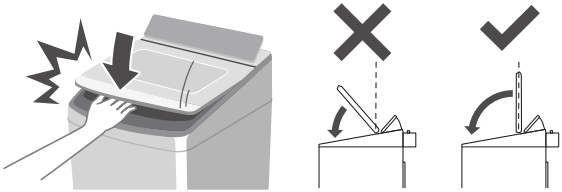
- Keep at least 15 cm away from the mounting part of the cardiac pacemaker.
- Keep away from medical equipment and automatic control equipment (automatic doors, fire alarms, etc.).

Safety Precautions (continued)

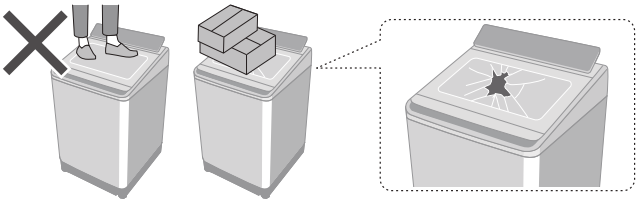
⚠ CAUTION

May cause injury.

Be careful not to get your fingers caught.

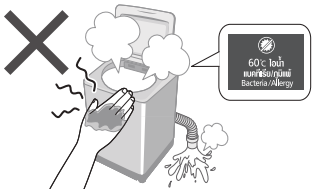


Do not climb or put objects on the appliance.

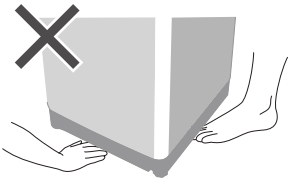


- If the lid is broken, immediately stop using.

Do not touch when it is hot.

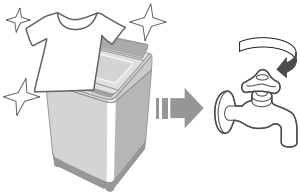


Be careful of your hands and feet.

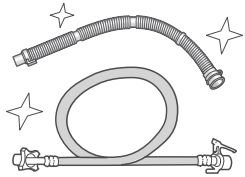


May cause water leakage.

Turn off the water faucet.



Use new hose-sets.

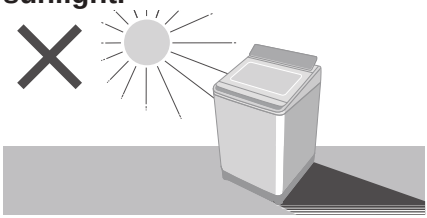


- New hose-sets supplied with the appliance are to be used and old hose-sets should not be reused.

■ For maximum mass of dry cloth and pressure of tap water, see Page 55.

May cause failure.

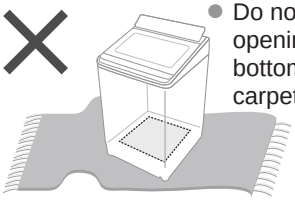
Keep away from heat and direct sunlight.



Do not wash waterproof items.

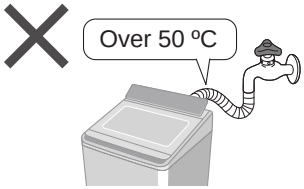


Do not obstruct.



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

Do not use hot water.



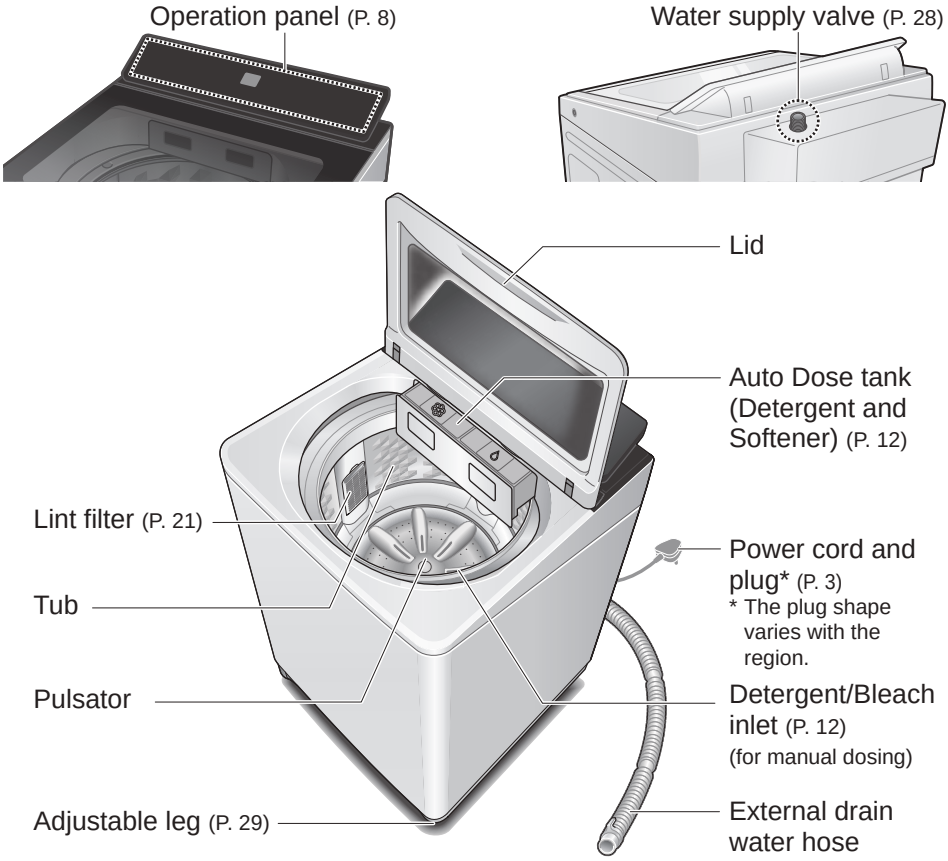
For machine-washable items only.



- 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.

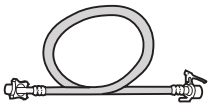
Part Names / Accessories

Part names



Accessories

☐ Water supply hose (1) (P. 28)



Length: 1.0 m

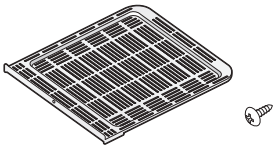
☐ External drain water hose (1) (P. 27)



☐ Water tap adaptor (1) (P. 28)



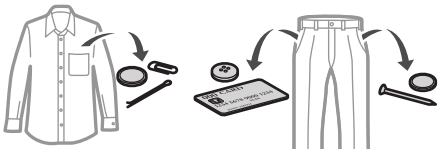
☐ Bottom cover (1) /Screw (1) (P. 27)

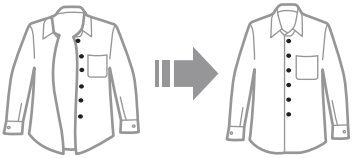


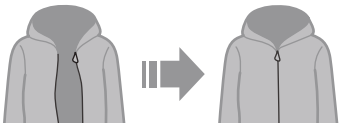
Before Washing

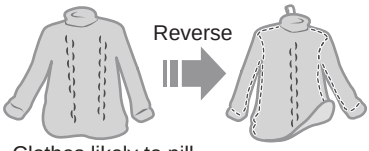
Laundry preparation and check

Pre-laundry check

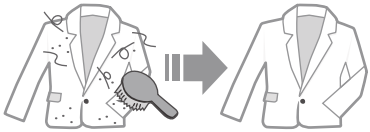








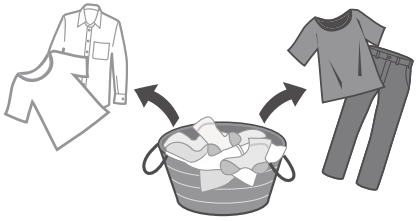
Clothes likely to pill



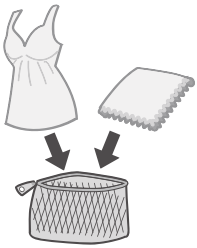


Paper diapers

To prevent colour staining



Use laundry nets for delicates





For "Stain Master +" (P. 18)

- Pretreatments for heavily stains



- Observe the clothes' care labels



- For



• Coloured clothes



• Shirts with stiff fabric



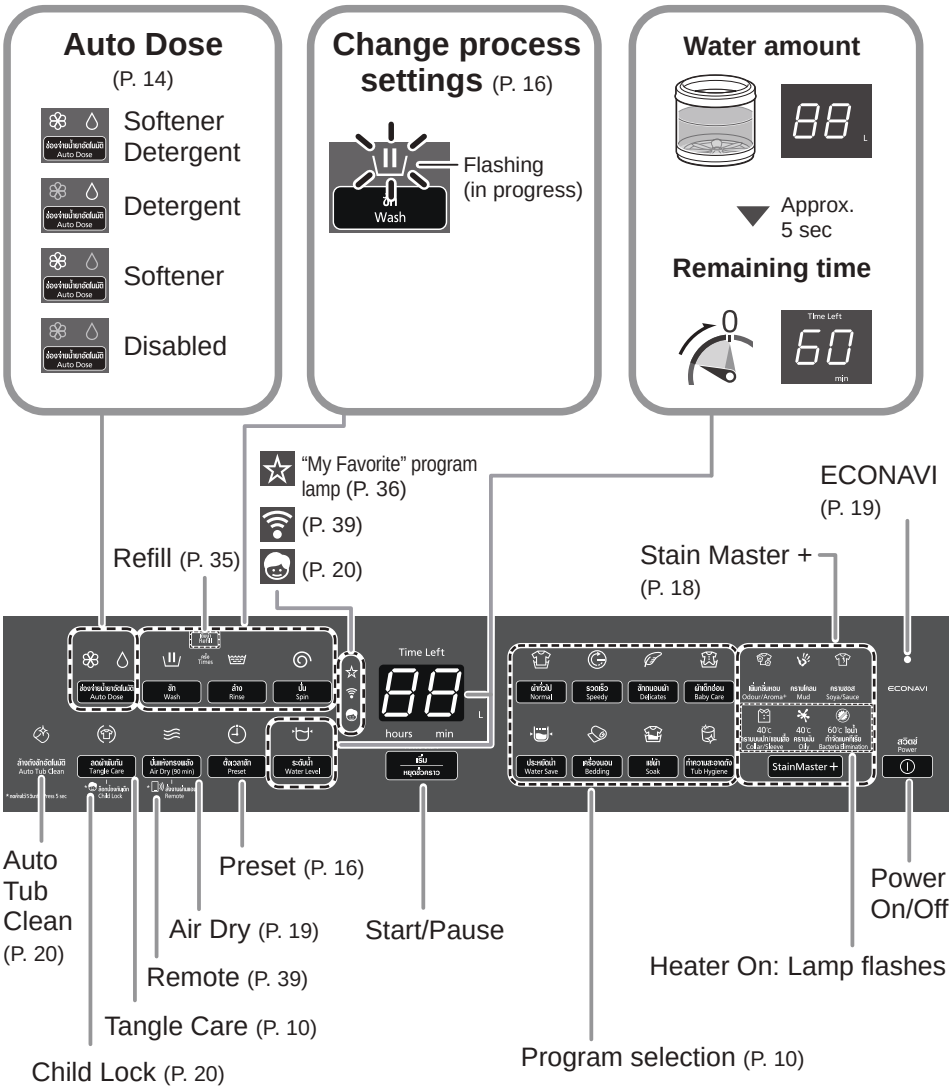
• Rubber clothes



• Graphic shirts



Operation Panel

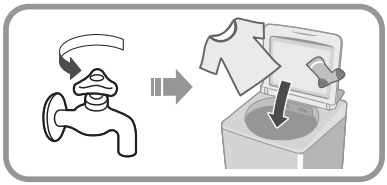


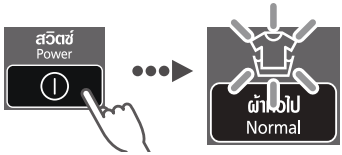
NOTE

- For water amount: 105L, display will show A5
- In case of a power failure.
  ➠ Operation will resume from where it stopped when the power recovers.
- If you do not press Pause/Start 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





(P. 10)

Checking "Auto Dose" setting
(P. 8, 14)

■ Preset timer



(P. 16)

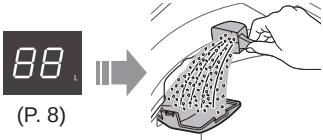
3

Measures the amount of laundry.



4

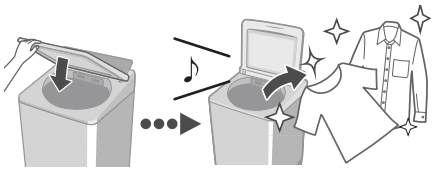
(for manual dosing)



(P. 8)

(P. 13)

5



■After pressing "Start"

- To change each operation (while washing).

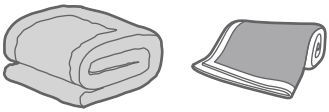


- To check or change the water level (while washing).



- You cannot change the program.

Variety of Programs

	Program	Purpose	Max. capacity (kg)
Wash	**Normal** (P. 9)	● Everyday clothes 	18.0
	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
	Delicates (P. 17)	● Washing gently 	5.0
	Baby Care (P. 9)	● Clothes for babies & sensitive skin Rinsing thoroughly 	18.0
	Water Save (P. 9)	● Saving water 	18.0
	Bedding (P. 17)	● Comforters and blankets  With a machine-washable tag	4.2

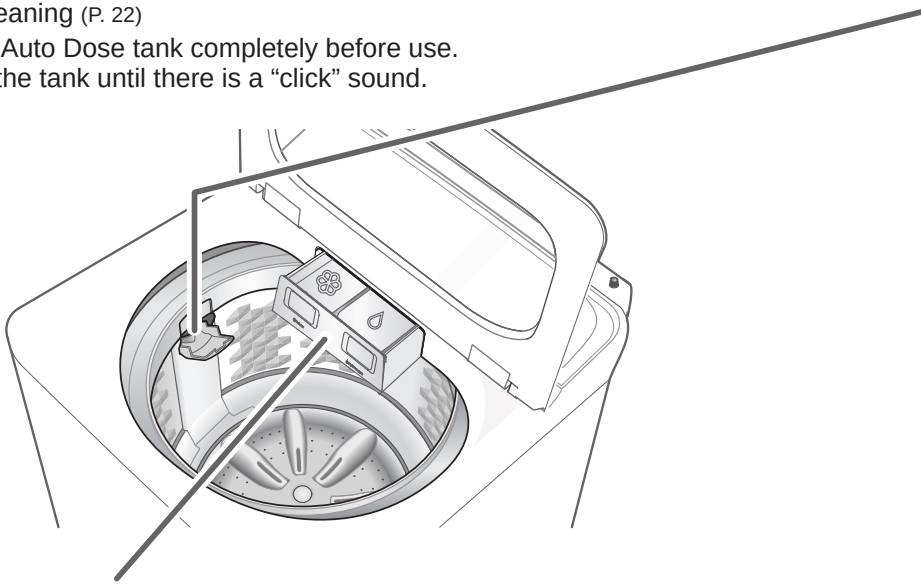
	Program	Purpose	Max. capacity (kg)
Wash	**Soak** (P. 9)	● For heavy soil Presoaking to wash 	18.0
Wash	StainMaster + (P. 18)	● For the following stains	6.0 / 5.0
Wash	Light **Odour/ Aroma+**	● Use more softener to keep the scent longer	6.0
Wash	**Mud**		5.0
Wash	**Soya/Sauce**		5.0
Wash	**Collar/Sleeve (40 ºC)**		5.0
Wash	Heavy **Oily (40 ºC)**		5.0
Wash	**Bacteria/Allergy (60 ºC Steam)**		5.0
Dry	**Air Dry (90 min)** (P. 19, 25)	● Drying synthetic fibre clothes 	3.0
Maintenance		● Tub drying 	—
Maintenance	**Tub Hygiene** (P. 25)	● Tub cleaning Removing black mould and smell 	—

NOTE

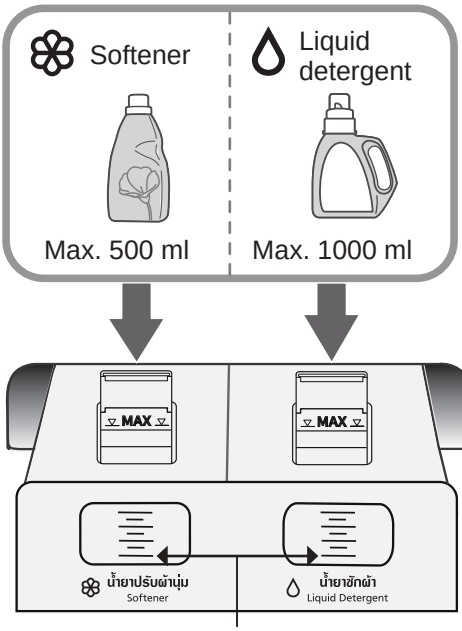
- “Normal” program and “Water Save” program are recommended for a normally soiled load at the rated capacity of this washing machine.

Detergent / Softener / Bleach

- Follow the instructions on each package.
- For cleaning (P. 22)
- Close Auto Dose tank completely before use.
  Push the tank until there is a “click” sound.



Auto Dose tank



Add detergent/softener before it drops below the line.

NOTE

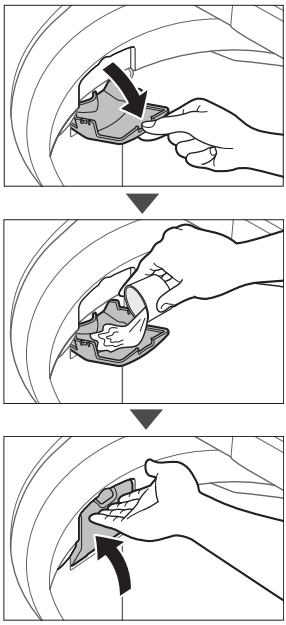
- Liquid detergent/softener left for a long time may clump or solidify. In that case, clean Auto Dose tank. (P. 22)



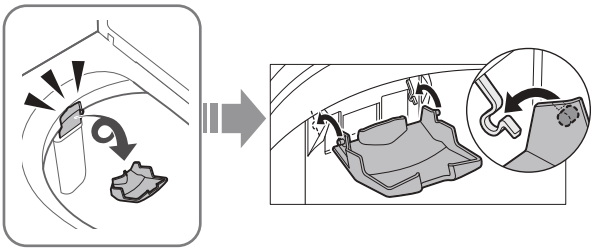
Do not use separated or solidified detergent/softener

For manual dosing

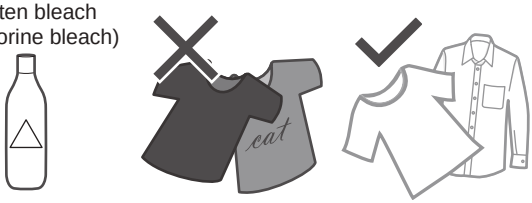
Detergent, Bleach

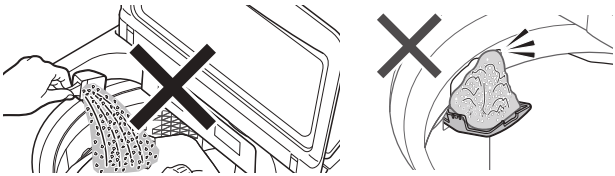


e.g.) Liquid bleach



Whiten bleach
(chlorine bleach)





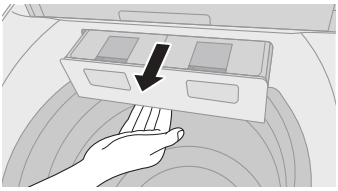
- **Do not pour detergent directly into the tub.**
- The level of foaming depends on the load size, soil, detergent, and water hardness.
- Dilute bleach with water before putting it in the detergent/bleach inlet.
- Pour detergent according to water level, follow the instructions on the package.

Auto Dose

Detergent and softener will be automatically added depending on the amount of laundry and dose amount setting, available with all programs except “Tub Hygiene”, “Air Dry (90 min)” and “Water Save” (Softener only). (P. 35)

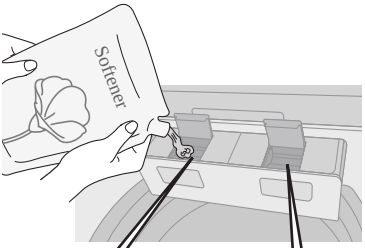
■ To supply detergent / softener

1



- Press the lock at the bottom of the tank and pull it out.

2



Softener
Max. 500 ml

Liquid detergent
Max. 1000 ml

3 Close Auto Dose tank completely.

■ To set “Auto Dose” function

1



2



(P. 8)



(Default setting)

3



(The setting is memorized.)

■ Standard amount

- Water: 50 L
- Liquid detergent: 25 ml
- Softener: 25 ml

■ To change the dose amount

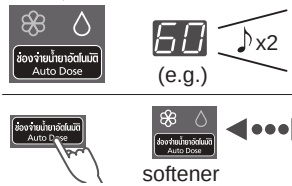
1



2



Hold 3 sec



3

- To increase



- To decrease



- Range value
  - Detergent: 10 ml - 95 ml
  - Softener: 10 ml - 95 ml

  Step change: 5 ml

(The setting is memorized.)

4



NOTE

- If there is water in the tub before, detergent and softener will not be automatically supplied when washing.

■ **Q&A**

	Questions	Answers
Detergent/Softener	**What cannot be used with “Auto Dose” function?**	The following cannot be used: ● Powder detergent ● Liquid soap ● Items that do not have a “Estimated amount to use” label on the package ● Bleach ● Powder soap Baking soda cannot be used for manual or auto dosing.
	Changing brand?	Follow the steps below: ① Empty the Auto Dose tank and clean it. (P. 22) (Mixing different brands can cause clogging) ② Add new detergent/softener. (P. 14)
	Can I add more before it runs out?	The same brand can be added as it is.
	What is the standard amount for detergent/ softener?	● The standard amount is the amount of detergent/softener used per 50 L of water. Check information on the package. ● If there is no information on the package or if you are unsure, contact the manufacturer.
How to use “Auto Dose” function	**How many times can the laundry be washed with Auto Dose tank full?**	● Detergent and softener: about 30 times The number of times varies depending on the amount of laundry and dose amount setting.
	If you do not set the dose amount?	● The standard amount is • 25 ml detergent per 50 L water • 25 ml softener per 50 L water ● If the settings are not appropriate for detergent/softener you are using, stains may not come off or the laundry may darken.
	What happens if put detergent in detergent/bleach inlet while setting “Auto Dose” function?	Because it is put in twice, it will be too much.

Washing Options

Preset

Set how many hours later to finish operation.

1



2



▼ 2 min

All other indications turn off.



ผ้าทั่วไป Normal	2 - 24
รวดเร็ว Speedy	1 - 24
ซักถนอมผ้า Delicates	-
ผ้าเด็กอ่อน Baby Care	2 - 24
ประหยัดน้ำ Water Save	2 - 24
เครื่องนอน Bedding	-
แช่ผ้า Soak	3 - 24
StainMaster +	(P. 18)
ปั่นแห้งทรงพลัง Air Dry (90 min)	-
ทำความสะอาดถัง Tub Hygiene	-

■ To confirm



■ To cancel or change



Wash / Rinse / Spin

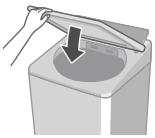
1



2



3



▼



NOTE

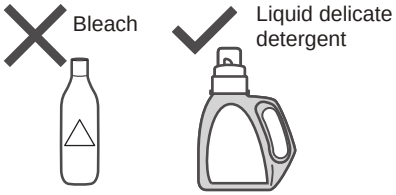
- Not available for “Tangle Care”.



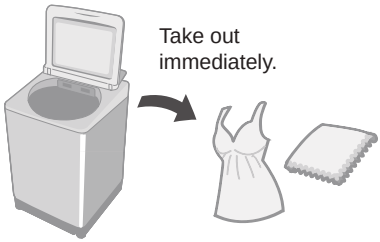
Delicates

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

NOTE

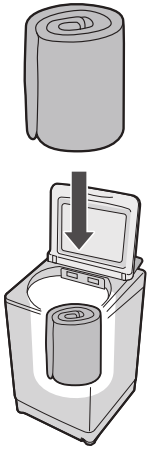


■ After operation ends

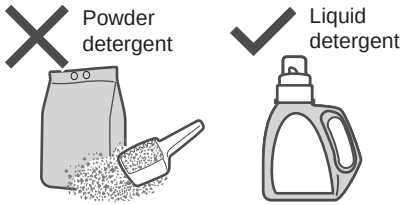


Bedding

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



NOTE



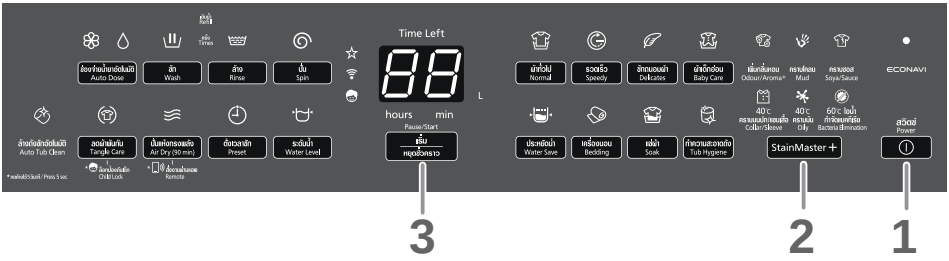
NOTE

- 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. 16)

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

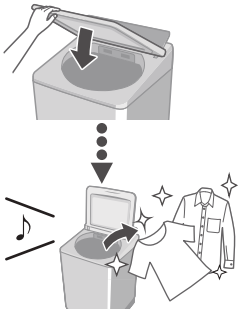
3



4

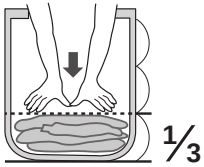


5



NOTE

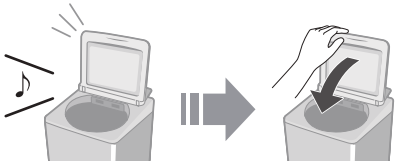
- Max. capacity (P. 11)



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

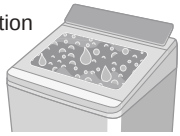


  - Make sure to close the lid.



  - Dew condensation may occur on the lid, etc.

Condensation



Air Dry (90 min)

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

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

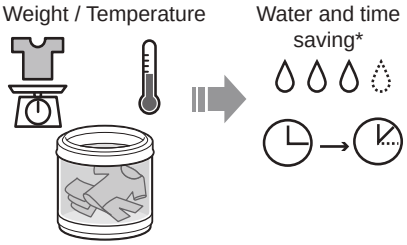


NOTE

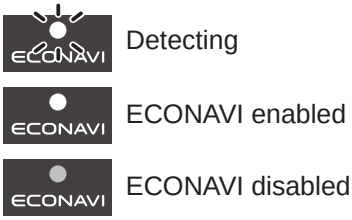
- Clothes may not be sufficiently dried (depends on amount and type of clothes, and the temperature).
- This function does not use a heater. Clothes may be cold and half dry.

ECONAVI

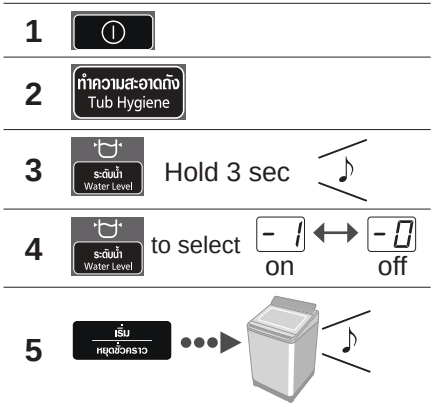
- "Normal" program only



■ Lamp indications



■ To turn on/off



* Test conditions:
- "Normal" program
- Comparison between ECONAVI-enabled operation (amount of laundry: 2.0 kg, water temperature: above 35 ºC) and ECONAVI-disabled operation (amount of laundry: 18.0 kg (rated capacity), water temperature: below 15 ºC)
- 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 

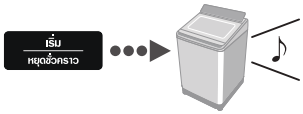
3 

Hold 3 sec 

4 

to select 

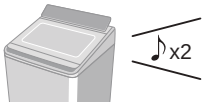
off on

5 

Cancelling end buzzer

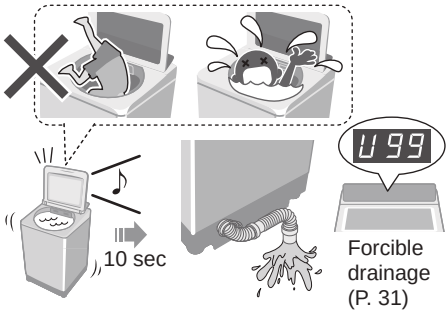
1 

Hold 3 sec



■ **To reset:**
same procedure 

Setting Child Lock



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

1 

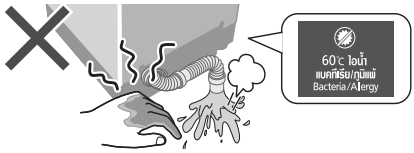
2 

Hold 5 sec



■ **To cancel:** same procedure 

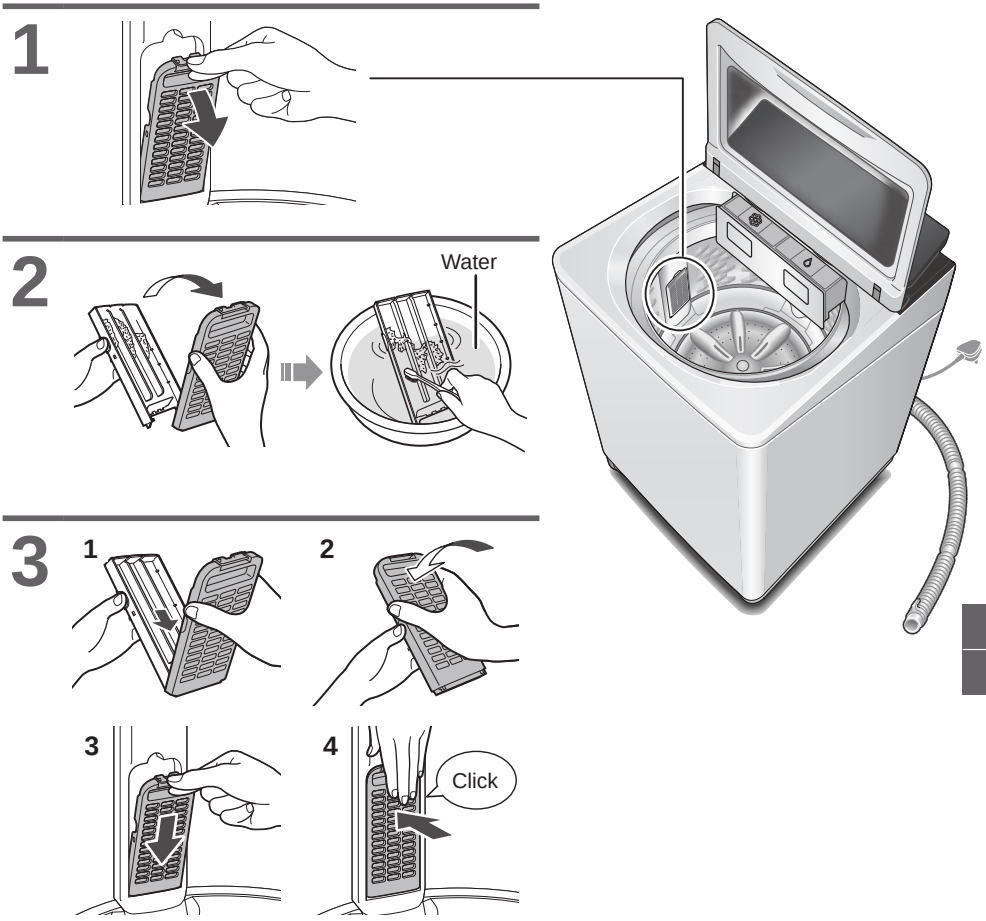
NOTE



Maintenance

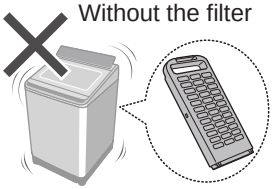
Lint filter

After each operation

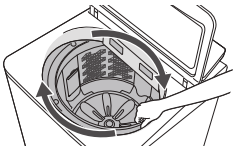


NOTE

Without the filter



If it is difficult to remove the filter



If the filter is broken



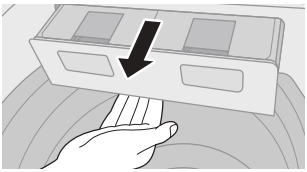
Maintenance (continued)

Auto Dose tank

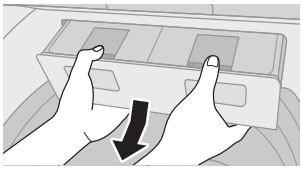
Once every 3 months	When changing detergent or softener brand	When not used for more than 1 month

1 Take out the tank.

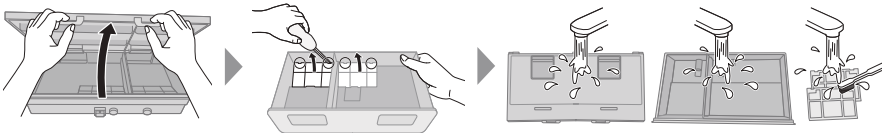
Press the lock at the bottom of the tank and pull.



Pull it out diagonally downward.



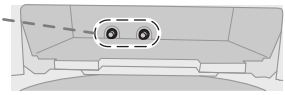
2 Open the tank lid, remove 2 filters, then wash with water.



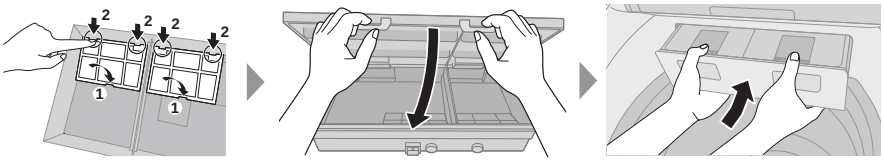
Backside

NOTE

- Do not reuse leftover liquid detergent and softener.
- Do not wipe the joint. (cause of clogging)



3 Attach filters, close the lid and attach the tank.



4

- Fill the tank about halfway with water, then close completely.
- Close the lid of washing machine and run “Auto Dose Tank Clean” function to clean (6-minute maintenance for detergent and softener each).

① 

② Select the tank to be cleaned

③

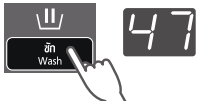


- If the joint is clogged, run “Auto Dose Tank Deep Clean” function to deep clean (47-minute maintenance for detergent and softener each).

① 

② Select the tank to be cleaned



③ 

④ 

5

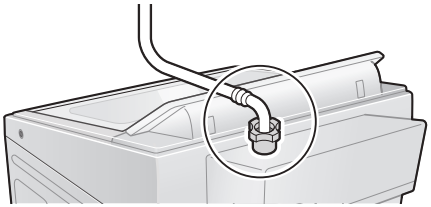
Take out the tank, discard the remaining water and wipe off the water, then attach the tank.



Maintenance (continued)

Water supply filter

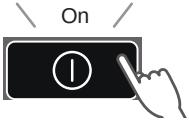
If water does not flow smoothly



1



2



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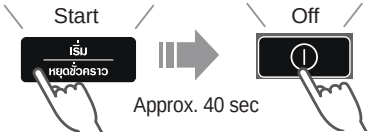

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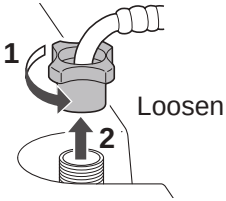

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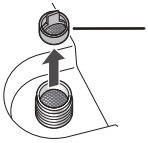
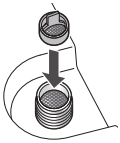


6



7



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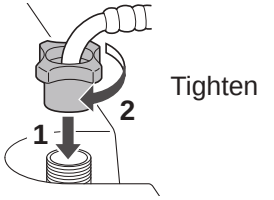
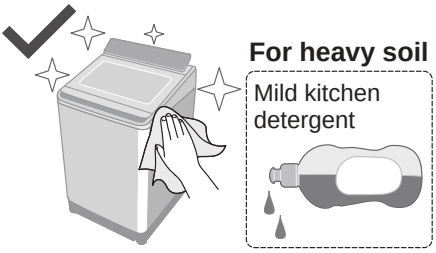
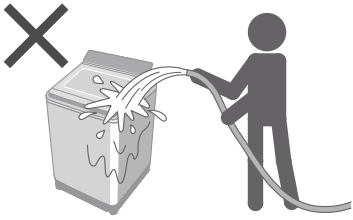


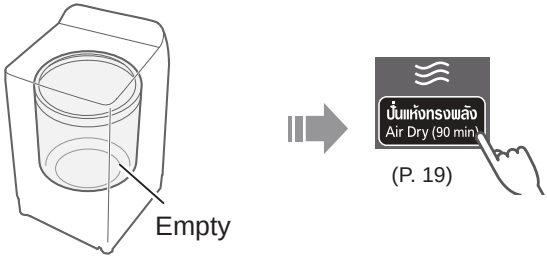
Main unit, lid





Tub

Once a week <Air Dry>



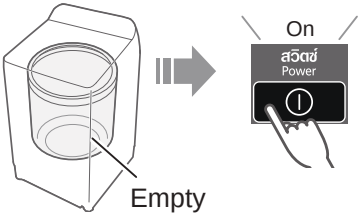
(P. 19)

Once a month <Tub Hygiene>

1



2



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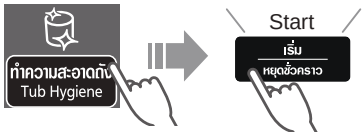

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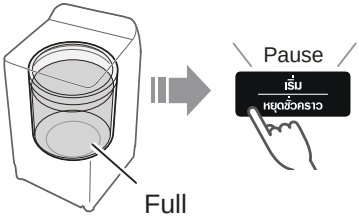

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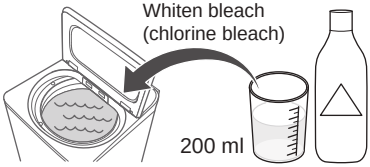

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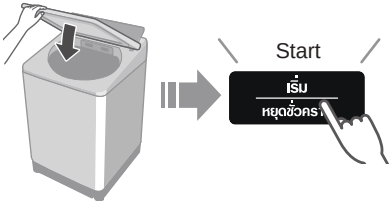
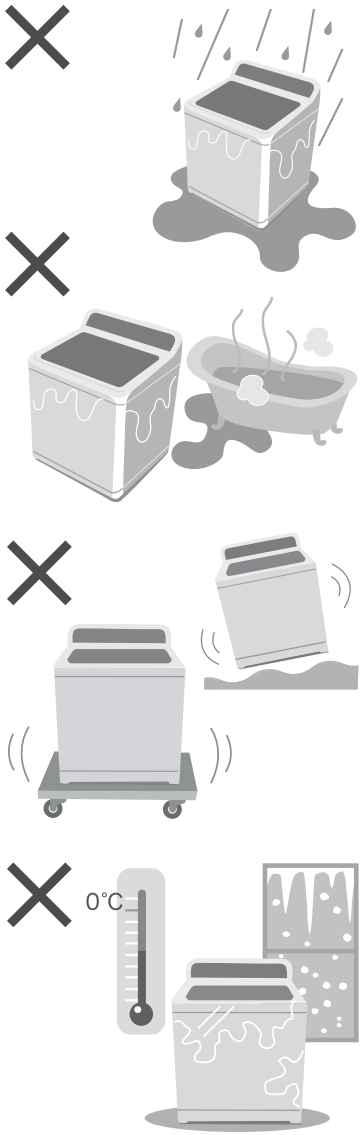


Approx. 2.5 hours



Installation

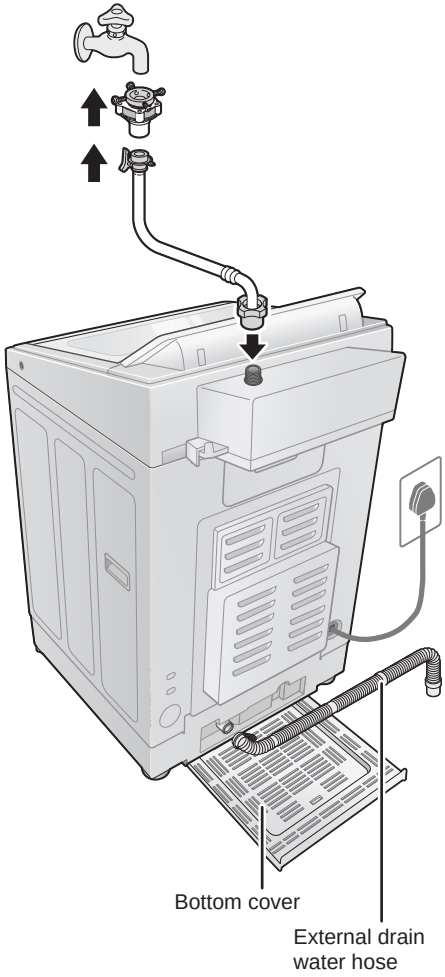
Check the location.



Make sure to ask a service person for installation.

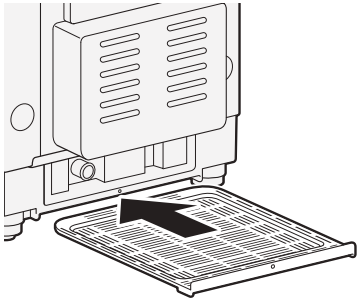


- Do not install by yourself.
- Follow this installation method.
  If you do not, Panasonic will not be liable for any accident or damage.



Attach the bottom cover

1



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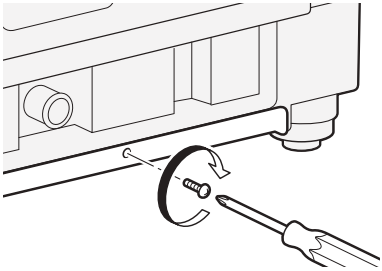
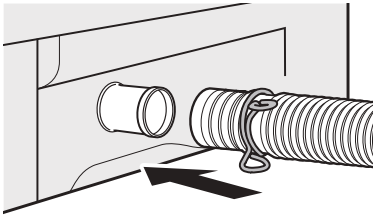


Attach the external drain water hose

1



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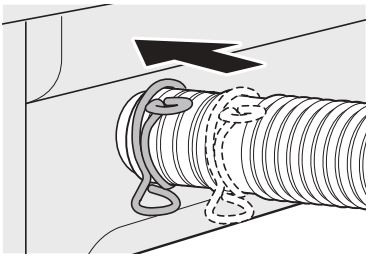
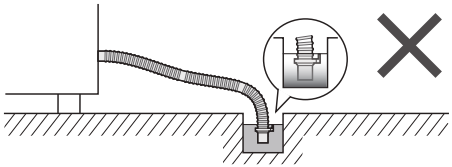
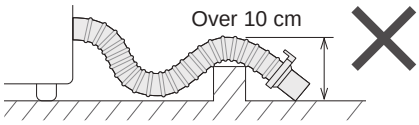
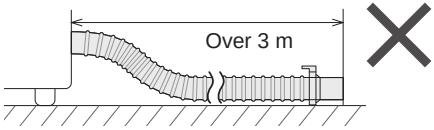


NOTE

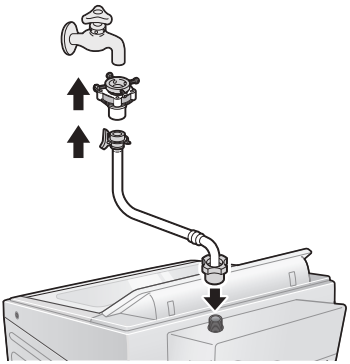






Installation (continued)

Connect the water supply hose



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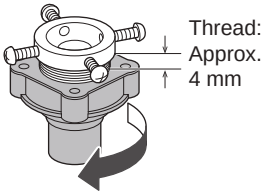

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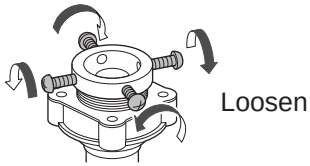

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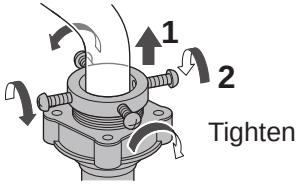

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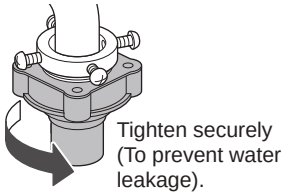

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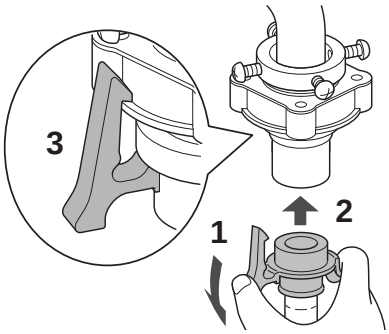

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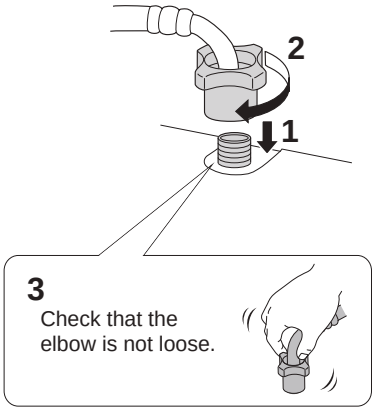
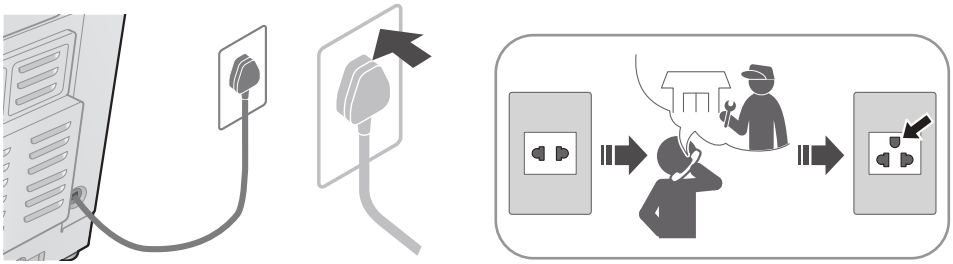


⚠ CAUTION

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

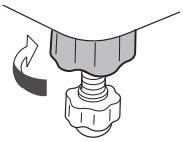
Connect the power plug and grounding



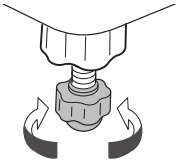
Check that the washing machine is level

■ **If the washing machine wobbles**

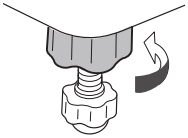
Loosen



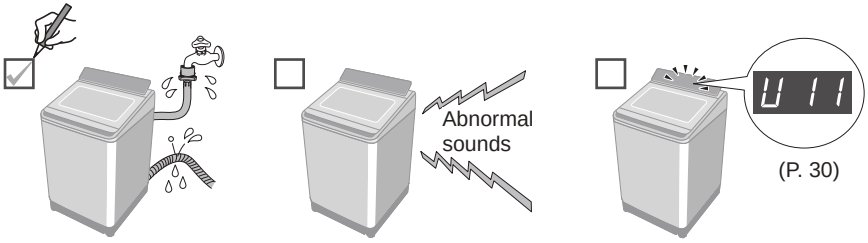
Adjust



Tighten

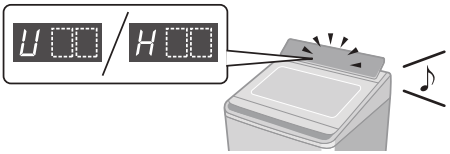


Trial operation

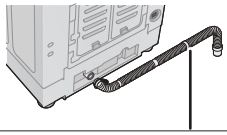
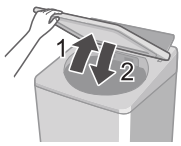
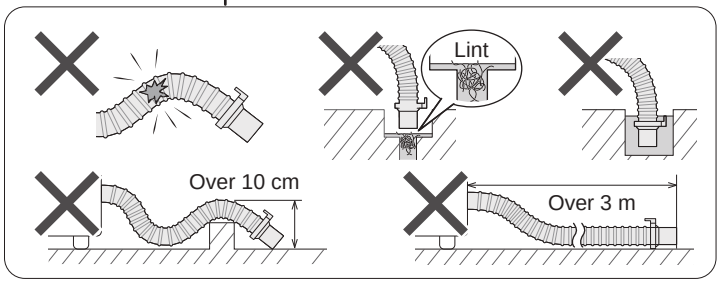
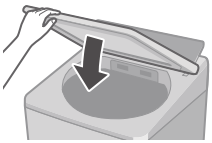
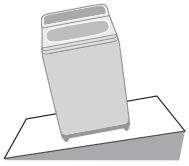
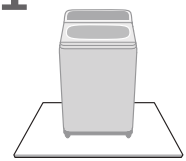


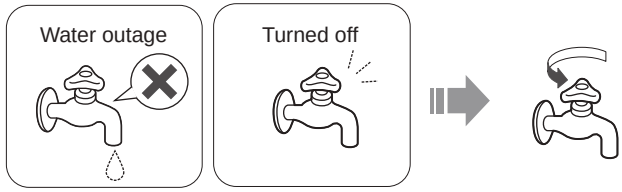
(P. 30)

Error Display

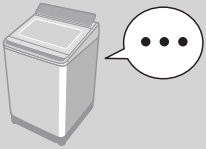
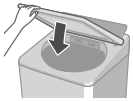
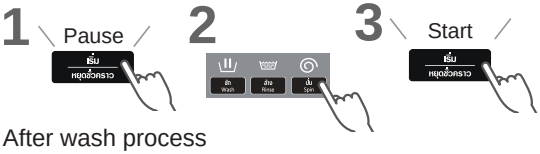


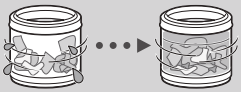
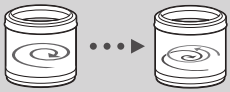
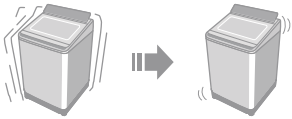
■ **Preparation**
Cancel Child Lock (P. 20)
if it is set.

Error Display	Points to be checked
U 11 **Water cannot drain.**	**1** Check  **2**  
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** 

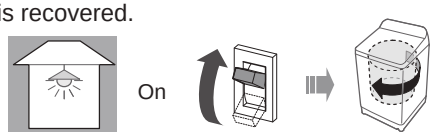
Error Display	Points to be checked
U 14 **Water cannot be supplied.**	 1 Water supply filter (P. 24) 2
U 99 **Water has been forcibly drained.**	With Child Lock set Forcible drainage 10 sec 1 5 sec
H□□ **Inspection is required.**	1 2 3

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 ☐Try ● Max. capacity (P. 11)  ● Pretreatment (P. 7)  ● Select according to the stain type. (P. 11) 

Contents of Programs

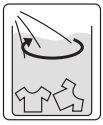
Program		Total time*1 (min)	Wash (min)	Rinse (times)	Spin (min)	Auto Dose	
						Detergent	Softener
	Normal	65	9	2	7	✓	✓
	Tangle Care	75	13	2	7	✓	✓
	Speedy	50	3	2	5	✓	✓
	Delicates	50	9	2	1	✓	✓
	Baby Care	80	9	2	7	✓	✓
	Water Save	80	12	3	7	✓	–
	Bedding	80	12	2	7	✓	✓
	Soak	130 *2	71 (Soak 59)	2	7	✓	✓
Stain 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 ºC).**

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

*3 Excluding water heating time. Symbol [- -] will be displayed during the water heating process.

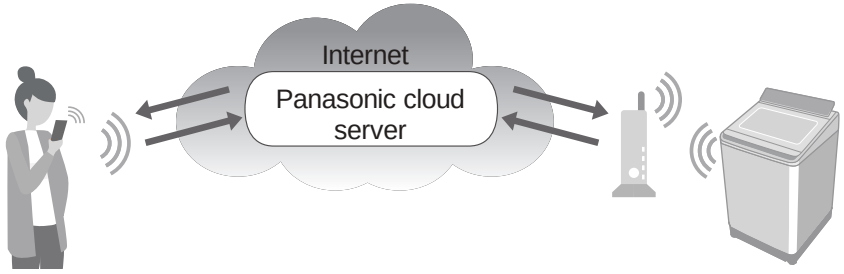
- "Refill": to fill the tub with water and rinse while supplying water.



Panasonic SmartApp+

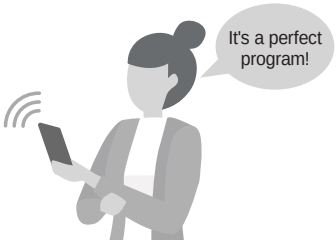
More convenient with your smartphone

You can use the service using the “Panasonic SmartApp+”.



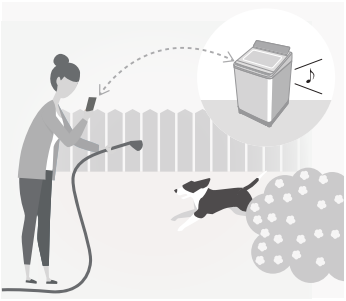
You can operate the washing machine or set the timer with application.

Support program selection from program history.



We have “My Favorite” program. You can create original programs with your favorite settings.

- Up to 10 programs.



Notification of washing status and end of operation.

Clothes can be taken out immediately after washing.

- The contents, functions and designs of this service are subject to change or termination without prior notice.

Required Equipment and Environment

Let's check the equipment required to use the app.

■ Android or iOS (iPhone) smartphone

- About supported OS

https://www.panasonic.com/fiot/wash/

Panasonic Website



■ Internet environment

Please confirm that it is a broadband line.

Example) FTTH (optical fiber), ADSL, CATV (cable television), etc.

Internet communication charges will be borne by the customer.





■ Wireless LAN router

Use a wireless LAN router to connect to the internet.



NOTE

- Make sure that the wireless LAN router has a communication standard of 2.4 GHz band. (Communication standards: IEEE802.11b, IEEE802.11g, IEEE802.11n) Other than the above cannot be used.
- Models that only support WEP cannot be used.
- As a security measure, be sure to use a wireless LAN router that can set the encryption method WPA3, WPA2, or WPA.
- We recommend WPA3 and WPA2 (AES) as the encryption method.
- We do not guarantee the operation of all wireless LAN routers. (Mobile router is not guaranteed to work.)

Panasonic SmartApp+ (continued)

Initial Settings



Follow the settings on the screen of the app.

1 Install the “Panasonic SmartApp+” (free)

- You can find the link to download the application from “Panasonic Website”.

  https://www.panasonic.com/fiot/wash/

  Panasonic Website

- Alternatively, you can search for the “Panasonic SmartApp+” app on Google Play (Android) or App Store (iOS) and install the app.
- You can also scan the link to install the app from the QR code pasted on the washing machine.

2 Follow instructions displayed on the screen of the app and register the washing machine.

- Operate in a position where you can check the display on the washing machine.
- It cannot be operated while the washing machine is running.

Use the app (P. 39)

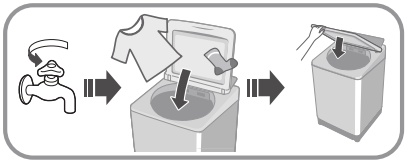
Using the “Panasonic SmartApp+”

After initial setting is completed, you can use the app.

Preparing to use the “Remote” function

You need to prepare the washing machine before going out.

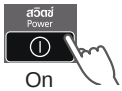
1



NOTE

- Close the lid completely.
- Make sure there is still detergent/ softener in Auto Dose tank.

2



On

Lights
(On)

3



Hold 5 sec.

Approx. 2 sec.

After 10 min.

All other indications turn off, except:

NOTE

- To cancel the remote control mode → turn the power off.
- When there is no remote control from the app, the remote control mode is released after 23 hours. During remote control mode, all buttons on the appliance (except ⏻) are disabled. You can only control the washing machine from the app. After 23 hours, the normal screen is displayed and the remote control is disable.

To check the communication status with the lamp on control panel.

Light up	Communicatable (Connected)
Blinking	Trying to communicate (Connecting to server)
Off	Not connected

■ Lamp position



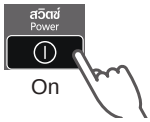
Panasonic SmartApp+ (continued)

Initializing

- When you stop using the “Panasonic SmartApp+”
- Suspected use due to unauthorized access
- If the appliance is a pre-owned machine

Reset the wireless LAN settings to the default settings.
(Operate on the washing machine)
You should also stop using the service of the app.

1



2

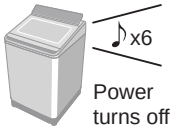


Hold 5 sec.

3



4



Power turns off

When you dispose of or transfer the washing machine

Reset all the contents such as the wireless LAN settings, washing machine settings, operation history, etc. to the state at the time of purchase.
(Full initialization)
(Operate on the washing machine)

1



Hold

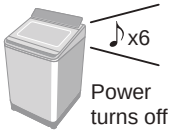
2



3



4



Power turns off

Error Display

Error display	Causes & Measures
U81	● Failed to connect the washing machine and the wireless LAN router. Check the following. • The router is not turned on. → Turn on the power. • The distance between the router and the washing machine is too long.→ Bring the router closer. • There is a device that uses radio waves, such as a microwave oven, nearby. →Keep a distance. →Stop using the device or wait a while and try again. • Multiple devices are connected to the router. →Turn off the power of the device you are not using.
U82	● Communication error with the server. ● There may be a problem with your internet connection. →If you do not know the cause, contact your provider, carrier, or router manufacturer.
U83	● In “Backup connection”, SSID or password of the router is incorrect. →Check the description of the router. ● Failed to connect the washing machine and the router. →Check the above “U81”.
U84	● “Scan connection” failed. Check the following. • The Bluetooth® setting on your smartphone is turned off. • The QR code cannot be read correctly. →Make sure that the Bluetooth® setting is ON, and then connect again. If you still cannot connect, please try “Backup connection”.
The app displayed the word like “Cannot communicate with the washing machine.”	● Communicate again after a while, or check the connection status by the following method.  →If “U81”, “U82”, etc. are displayed, it is a connection error. Check the above.

Panasonic SmartApp+ (continued)

Usage for wireless LAN/Bluetooth®

■ Usage restrictions

Please note that there are the following restrictions on use. Panasonic is not liable for any incidental damages resulting from the failure to comply with the restrictions and the use or inability to use the machine.

- Do not connect to a wireless network that you do not have permission to use. A wireless network (SSID*) that you do not have permission to use during automatic search of the wireless network environment may be displayed, but if you connect, it may be considered as unauthorized access.
- Do not use in a place where magnetic field, static electricity, or radio interference is generated.
  If you use it near the following devices, communication may be interrupted or the speed may slow down.
  - Microwave oven
  - Other wireless LAN / Bluetooth® devices
  - Other devices that use radio waves in the 2.4 GHz band (digital cordless phones, wireless audio devices, game consoles, PC peripherals, etc.)
  - Metal objects that easily reflect radio waves

* A name used to identify a specific network on a wireless LAN. If this SSID matches on both devices, communication is possible.

■ Security measures

- Since the wireless LAN uses radio waves to send and receive data, there is a risk of unauthorized access. Take security measures to ensure the safety of your data. (P. 37) Please note that we are not responsible for any problems that occur without taking security measures.
- For the password (encryption key) of the wireless LAN router, refer to the instruction manual of the wireless LAN router and set it in consideration of security.

■ About firmware

- This machine has a function to connect to our firmware update server via the Internet and automatically update its own firmware to the latest version. Since wireless communication is temporarily interrupted during the update, communication may be interrupted or the speed may slow down.
- Do not analyze or modify the firmware.

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Panasonic SmartApp+ (continued)

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easy-ecc

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Specifications

Model No.	NA-FD180W3
Rated voltage	220 V
Rated frequency	50 Hz
Rated power consumption	1475 W
Standard water amount	105 L
Maximum mass of dry cloth	18.0 kg
Product dimensions	681 mm (W) x 733 mm (D) x 1153 mm (H)
Product weight	50 kg
Pressure of tap water	0.01 - 1 MPa

This telecommunication equipment conforms to NBTC technical requirement.
เครื่องโทรคมนาคมและอุปกรณ์นี้มีความสอดคล้องตามมาตรฐานหรือข้อกำหนดทางเทคนิคของ กสทช.

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