

Panasonic®

Operating & Installation Instructions

Washing Machine (Household Use)

Model No. **NA-V105FR1** **NA-V10FR1** **NA-V90FR1**
NA-V10FC1 **NA-V95FC1** **NA-V90FC1**



It is essential to read these instructions.

EN

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

Contents This washing machine has
“Dry Assist” function (P. 28).

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AWW9901CB3C1-0C0

Safety Precautions

WARNING

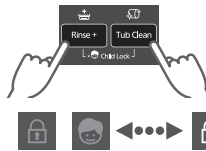
May cause serious injury or death

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.

Setting the Child Lock. (P. 30)



**Hold
5 sec.**

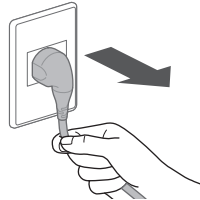


May cause fire or electric shock

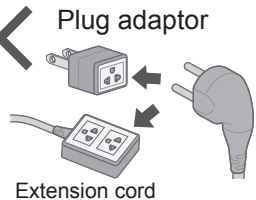
Do not touch it with wet hands.



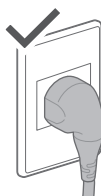
Do not hold or pull on the cord.



Do not use.



Fully insert it.

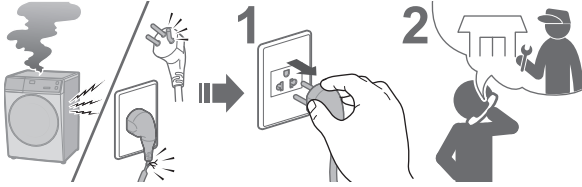


Do not use.

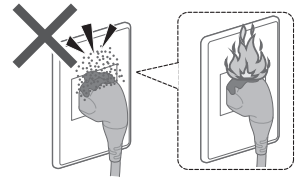


- If the power cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

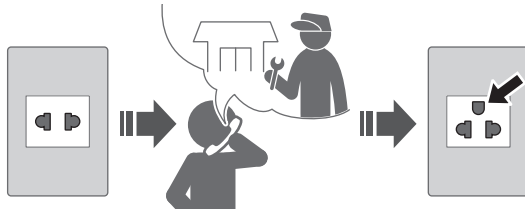
In case of failure or damaged power cord, stop use and ask the electrical technician.



Accumulated dust may cause fire.



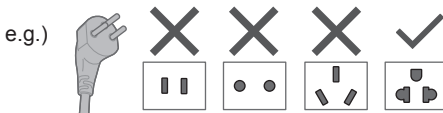
Securely insert the ground prong. Ask the electrical technician for a new socket.



Wipe the power plug periodically.



Use a socket appropriate for this appliance.



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

Keep away from flammable materials.



May cause failure

Do not disassemble, repair or modify it by yourself.



When using the “Panasonic SmartApp+” app
(Cause of malfunction due to radio waves from the appliance) V105FR1 V10FR1 V10FC1 V90FR1

- 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)



WARNING

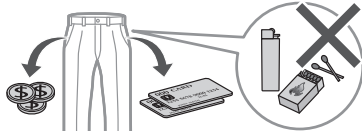
May cause fire (For safety use of the drying feature)

Do not dry items soiled with flammable materials.



- Items that have been soiled with substances such as cooking oil, acetone, alcohol, petrol, kerosene, spot removers, turpentine, waxes, wax removers and cosmetic oils must not be dried in the appliance even after having been washed.

Empty all pockets.



- Make sure that no objects are left in any of the pockets. Pay particular attention to cigarette lighters and matches. They may cause fire.

Do not dry items made of rubber, etc.



- Items such as foam rubber (latex foam), shower caps, waterproof textiles, airtight fabrics, rubber backed articles and clothes or pillows fitted with foam rubber pads should not be dried in the appliance. Such materials may be destroyed and thereby damage the appliance.
- Do not dry unwashed items in the appliance.

The lint must not be allowed to accumulate around the appliance.



Observe the following.

- Never stop the appliance before the end of the drying cycle unless all items are quickly removed and spread out so that the heat is dissipated.
- The appliance is not to be used if industrial chemicals have been used for cleaning.
- The appliance must not be supplied through an external switching device, such as a timer, or connected to a circuit that is regularly switched on and off by a utility.



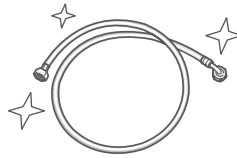
CAUTION

May cause water leakage

Turn off the water faucet.



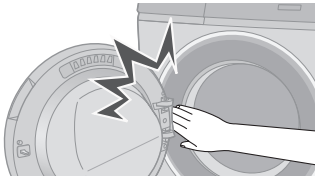
Use new hose-sets.



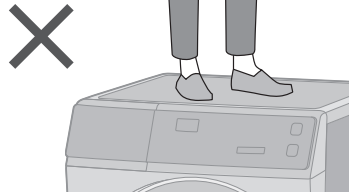
- New hose-sets supplied with the appliance are to be used and old hose-sets should not be reused.

May cause injury

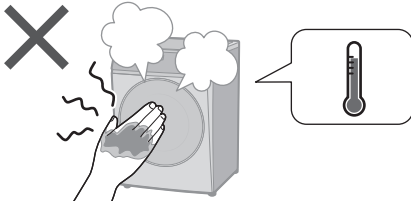
Be careful not to get your fingers caught.



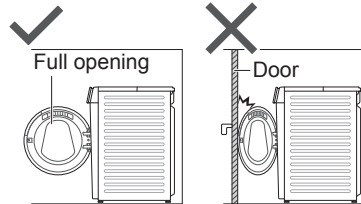
Do not climb on the appliance.



Do not touch when it is hot.



Install the appliance correctly.



- The appliance must not be installed behind a lockable door, a sliding door or a door with a hinge on the opposite side to that of the appliance, in such a way that a full opening of the appliance door is restricted.

■ For maximum mass of dry cloth and pressure of tap water, see P. 68.

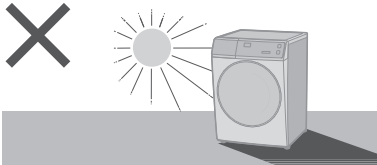
Safety Precautions (continued)



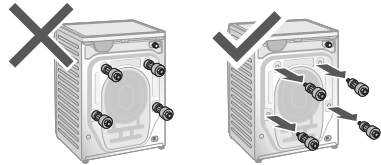
CAUTION

May cause failure

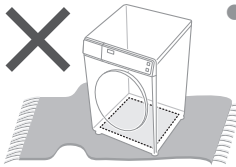
Keep away from heat and direct sunlight.



Remove anchor bolts before operation.

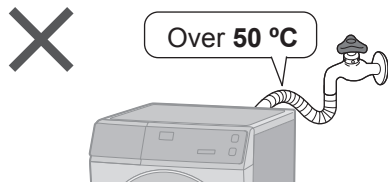


Do not obstruct.

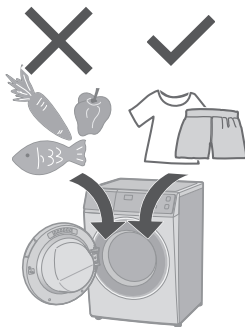


- Do not obstruct the openings of the bottom face with carpet, etc.

Do not use hot water.



For machine-washable items only.

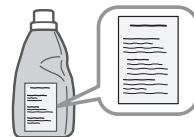


- This appliance is intended to be used in household.
This appliance is not intended to be used in applications such as:
 - staff kitchen areas in shops, offices and other working environments;
 - farm houses;
 - by clients in hotels, motels and other residential type environments;
 - bed and breakfast type environments;
 - areas for communal use in blocks of flats or in launderettes.

Do not wash excessively oily clothes.



Follow the instructions.

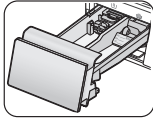


- Fabric softeners, or similar products, should be used as specified by the fabric softener instructions.

Checking Your Washing Machine

Part names

Detergent drawer (P. 12)



Control panel (P. 10)

Do not block the exhaust port.

Door

Drum

Hinge

Door seal

Adjustable feet (P. 45)

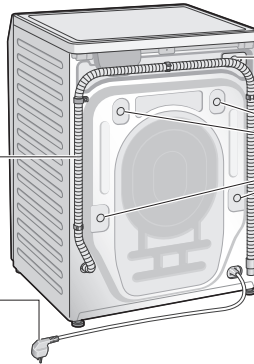
Drain filter cover (P. 34)

Drain hose (P. 46, 47)

Water inlet (P. 47)

Anchor bolts (P. 45)

Power cord and plug*
*The plug shape varies with the region.



Accessories

Elbow (1) (P. 47)



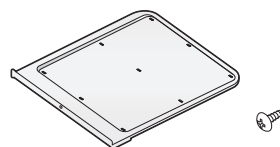
Cover caps (4) (P. 45)



Water supply hose (1) (P. 46, 47)



Bottom cover (1) / Screw (1) (P. 44)

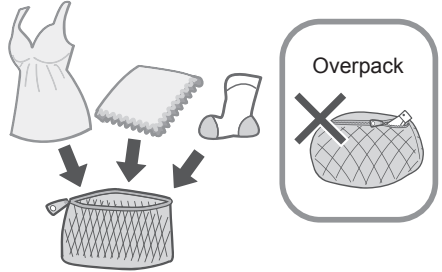
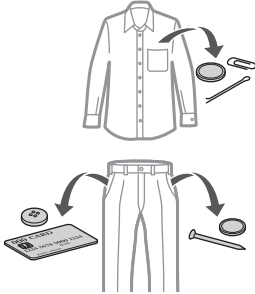


Before Washing

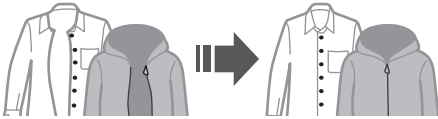
Preparing laundry

Before put clothes in drum

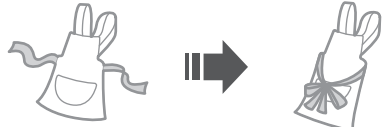
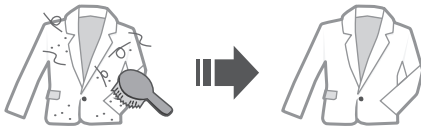
- Remove foreign objects.
- Use laundry nets for delicates and small items.



Pre-laundry check



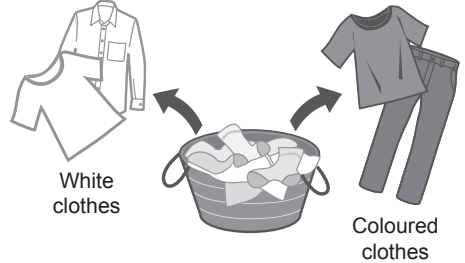
Clothes likely to pill



- Observe care labels.



- Wash separately.



- Pretreat for heavily stains.



NOTE

- "Stain Master+" programs (P. 17) are recommended for removing stains.

Cannot wash or dry

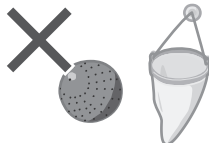
Cannot wash or dry



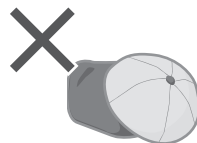
Leather / fur



Silk, rayon and cupro
(Blended fabric)



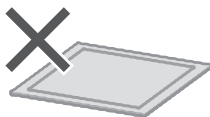
Commercially
available washing aids



Cap with hard
core materials



Cushion, Pillow, etc.



Urethane / rubber
backed or thick mats



Paper diapers

Others ...

- Wrinkled and embossed articles
- Crepe fabric
- Deformable clothing (blazers, ties, dresses, etc.)
- Velvet

Cannot dry



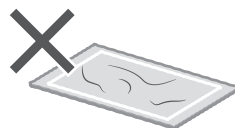
Any of the above
marks



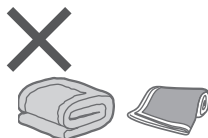
Woollen clothing



Tights or pantyhose



Mats and other
items with hair of
pets attached



Quilts



Starched clothing



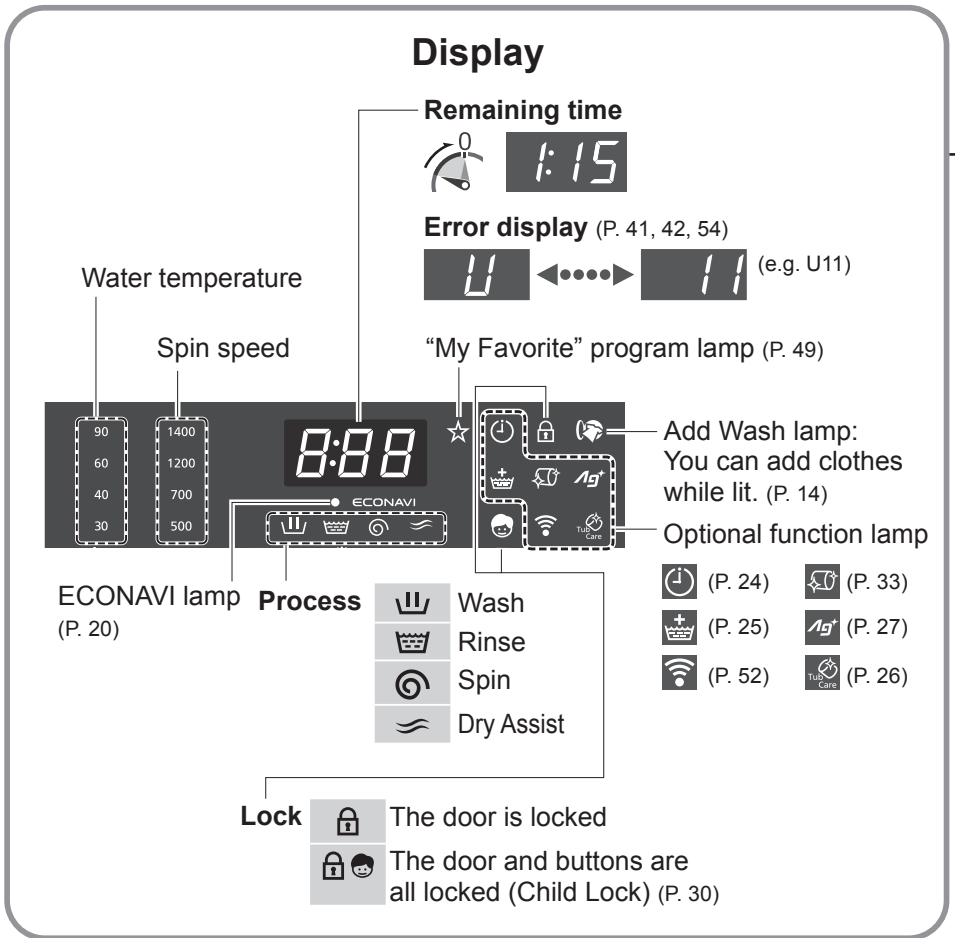
Clothing with laces
or embroidery, new
synthetic fibres, etc.

NOTE

- May cause clothing deformation, damage and harm or malfunction to the appliance.

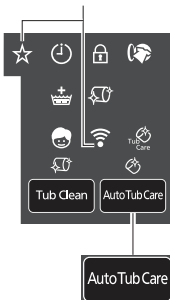
Control Panel

- Images in these instructions are of the NA-V105FR1, unless otherwise indicated.



■ NA-V10FC1 / NA-V95FC1 / NA-V90FC1

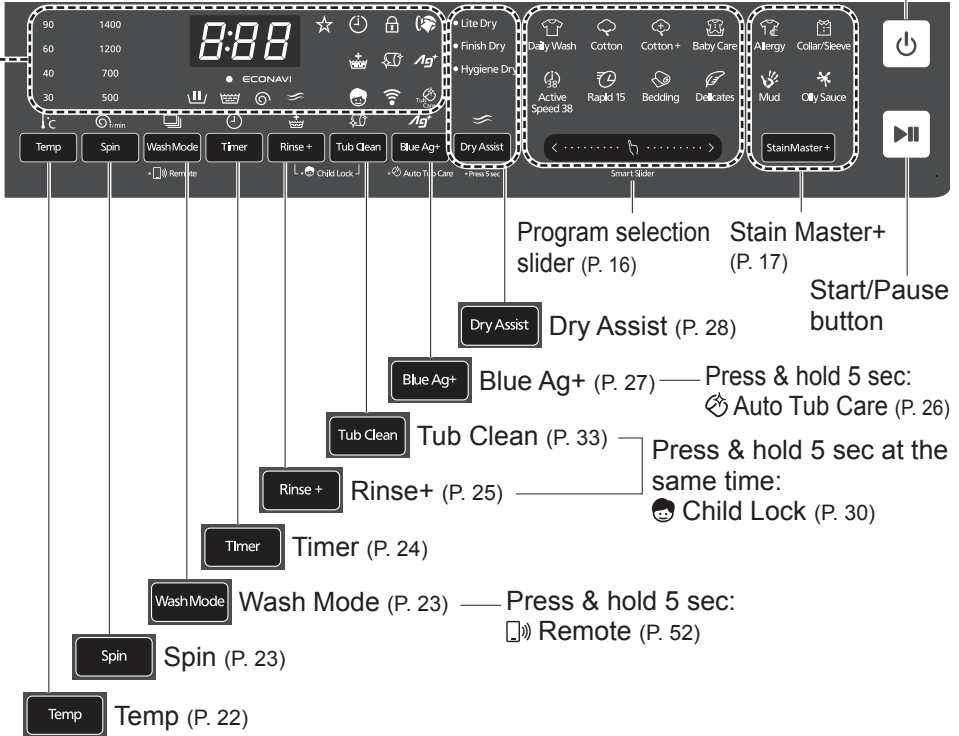
NA-V10FC1 only



Control buttons

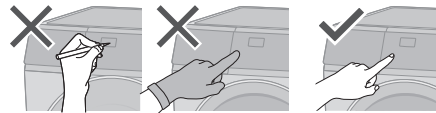
■ NA-V105FR1 / NA-V10FR1 / NA-V90FR1

Power button



Touch operation

- If water, detergent or softener gets on, turn off and wipe off with a towel etc. immediately. (Cause of malfunction)



NOTE

- Turn off back on (00)
 Turn off 3 sec. On
- No operation auto power off (Not pressed) Auto Power off
 On 10 min.
- In case of a power failure
 When the power recovers, operation resumes from where it stopped. (Auto Restart)

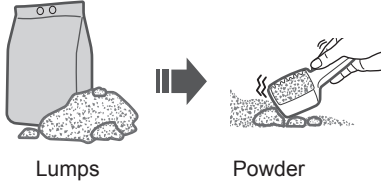
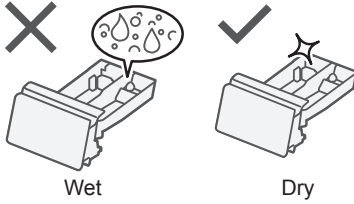
Detergent

- Follow the instructions on each package.

Detergent

Use a low foam detergent.

- To prevent powder detergent from remaining in the detergent drawer:



Detergent

Powder detergent

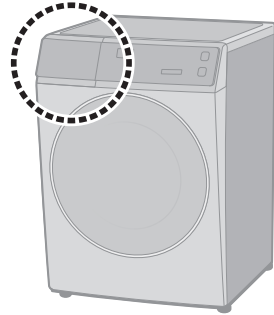
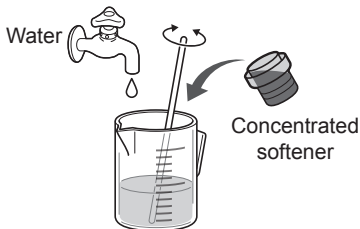
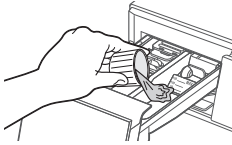
Liquid detergent



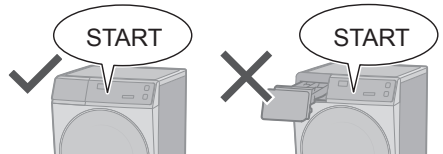
Bleach



Fabric softener

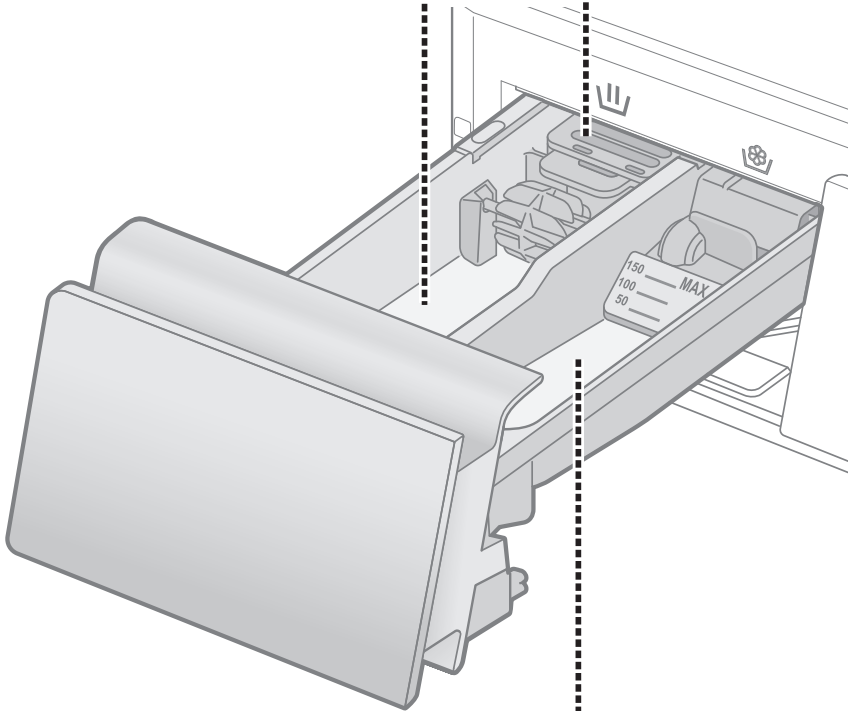


NOTE



Ag+ case (P. 27, 33)

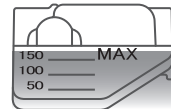
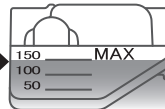
V105FR1 V10FR1 V90FR1



 **Fabric softener**

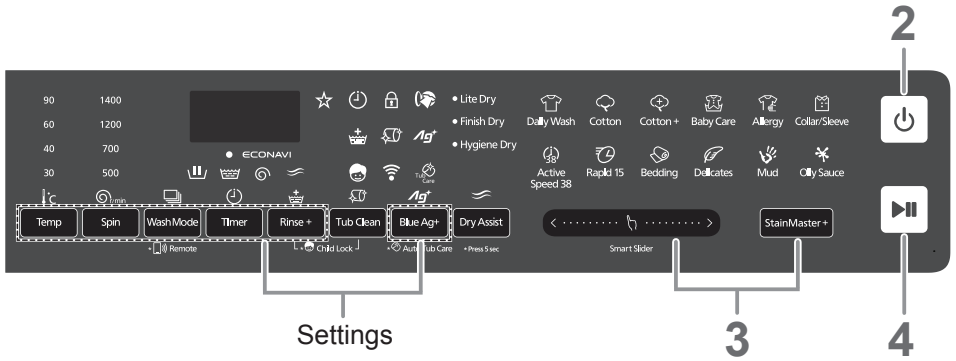


Max. 150 ml



Washing

Basic Method

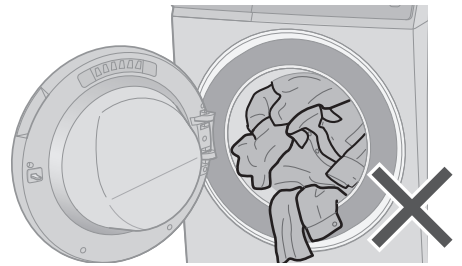


NOTE

■ Do not let laundry get caught in the door.



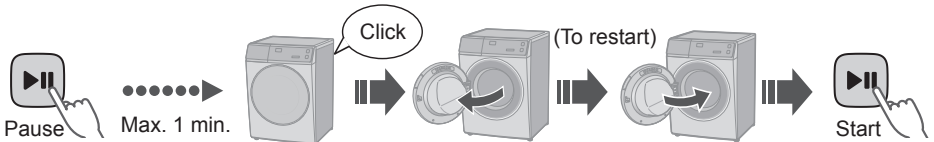
■ Do not overfill the drum with laundry.



■ To open the door during operation

● During washing

(You can add clothes when lit.)

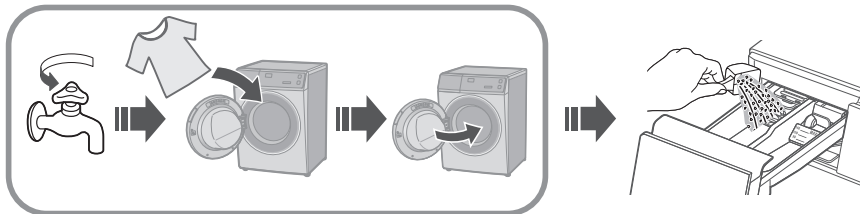


NOTE

● Door does not open (P. 36)



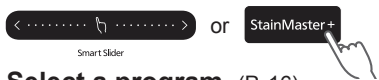
1



2



3



Select a program. (P. 16)

■ Changing the settings.

Settings

Temp	Spin	Wash Mode	Timer
Temp (P. 22)	Spin (P. 23)	Wash Mode (P. 23)	Timer (P. 24)
Rinse +	Auto Tub Care	Blue Ag+	
Rinse+ (P. 25)	Auto Tub Care V10FC1 V95FC1 V90FC1 (P. 26)	Blue Ag+; Auto Tub Care V105FR1 V10FR1 V90FR1 (P. 26, 27)	

4



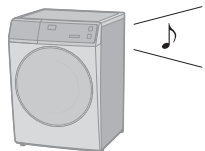
Measures the amount of laundry

(30 sec.)

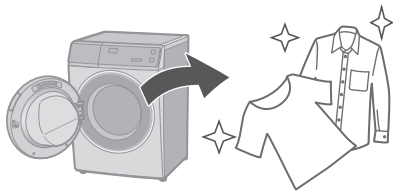


Displays the time required (recalculated)













(e.g.)

















5
















Program List

Program	Description	Max load (kg)				Total time
		V105FR1	V10FR1/ V10FC1	V95FC1	V90FR1/ V90FC1	
 Daily Wash	<ul style="list-style-type: none"> ● Everyday clothes (Quicker than “Cotton” program) 	10.5	10.0	9.5	9.0	1:30
 Cotton	<ul style="list-style-type: none"> ● Everyday clothes 	10.5	10.0	9.5	9.0	2:54
 Cotton +	<ul style="list-style-type: none"> ● Gentle wash with extra time 	10.5	10.0	9.5	9.0	3:00
 Baby Care	<ul style="list-style-type: none"> ● Clothes for babies & sensitive skin Rinsing thoroughly 	5.0				2:20
 Active Speed 38	<ul style="list-style-type: none"> ● Small loads 	5.0				0:38
 Rapid 15	<ul style="list-style-type: none"> ● Small loads of lightly soiled 	2.0				0:15

- **Total time is approximate** (When the standard water supply rate is 15 L / min). For each program's default water temperature.










Program	Description	Max load (kg)				Total time
		V105FR1	V10FR1/ V10FC1	V95FC1	V90FR1/ V90FC1	
 Bedding	<ul style="list-style-type: none"> Large items 	3.0				1:30
 Delicates	<ul style="list-style-type: none"> Washing gently 	2.0				0:50
StainMaster +	For the following stains					
 Allergy	<ul style="list-style-type: none"> For ticks and pollen 	10.5	10.0	9.5	9.0	3:15
 Collar/ Sleeve		10.5	10.0	9.5	9.0	3:10
 Mud		10.5	10.0	9.5	9.0	3:30
 Oily Sauce		10.5	10.0	9.5	9.0	3:00
 Tub Clean	<ul style="list-style-type: none"> Cleaning the drum. 	None				3:45


Details of Programs

Program	Settings	Auto setting	
		Temp (°C)	Spin (r/min)
 Daily Wash		40	1200
 Cotton		40	1200
 Cotton +		60	1400
 Baby Care		40	1400
 Active Speed 38		40	1200
 Rapid 15		Cold	1200
 Bedding		Cold	700
 Delicates		30	500
 Allergy		90	1200
 Collar/Sleeve		40	1200
 Mud		40	1200
 Oily Sauce		40	1200
 Tub Clean		40	1200

NOTE

- For normally soiled laundry at the rated capacity, we recommend using the “Cotton +, 60 °C, 1400 r/min” which is tested in accordance with IEC 60456 for the energy and water efficiency aspects.
- Actual water temperature may differ from the declared cycle temperature.
- These results depend on water pressure, water hardness, water inlet temperature, room temperature, type and amount of load, degree of soiling, utilized detergent, fluctuations in the main electricity supply and chosen additional options.

Setting range		Optional functions				
Temp (°C)	Spin (r/min)	Wash Mode	Timer	Rinse+	Blue Ag+	Auto Tub Care
Cold, 30, 40, 60	 500, 700, 1200, 1400	✓	✓	✓	✓	✓
Cold, 30, 40, 60	 500, 700, 1200, 1400	✓	✓	✓	✓	✓
Cold, 30, 40, 60	 500, 700, 1200, 1400	✓	✓	✓	✓	✓
Cold, 30, 40, 60	 500, 700, 1200, 1400	✓	✓	✓	✓	✓
Cold, 30, 40	 500, 700, 1200, 1400	✓	✓	–	✓	✓
Cold	 500, 700, 1200	–	✓	–	–	–
Cold, 30	 500, 700	✓	✓	✓	✓	–
Cold, 30, 40	 500	✓	–	✓	✓	–
60, 90	 500, 700, 1200	–	✓	✓	–	✓
40	 500, 700, 1200, 1400	✓	✓	✓	✓	✓
40	 500, 700, 1200, 1400	✓	✓	✓	✓	✓
40	 500, 700, 1200, 1400	✓	✓	✓	✓	✓
40	1200	–	–	–	–	–

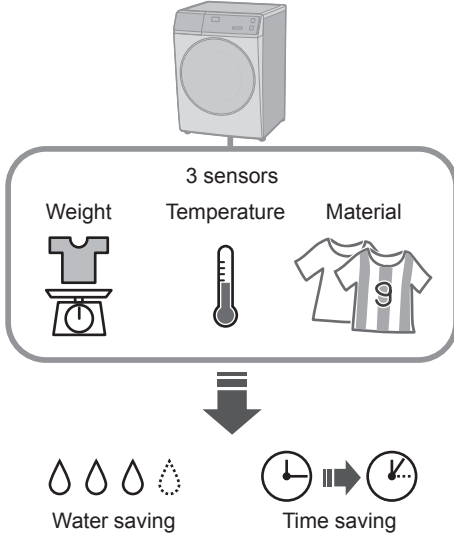
 : Drain only (No spin)

Blue Ag+:
V105FR1 / V10FR1 / V90FR1

Washing Tips

ECONAVI

- “Cotton” and “Daily Wash” programs



■ Lamp indications



Detecting



ECONAVI enabled



ECONAVI disabled

Delicates

■ When washing

- To rinse fully, use the “Rinse+” function. (P. 25)

NOTE

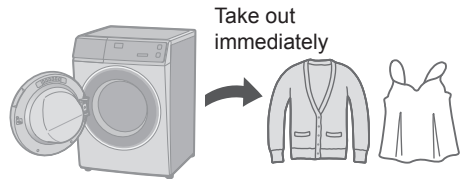


Bleach



Liquid detergent for delicates

■ After operation ends

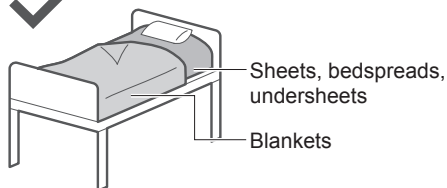


Take out immediately

Bedding

Washable items

- (Wash) ● (Handwash)
- 100 % cotton or 100 % synthetic



Not washable items



Electric blankets



Wool



Silk

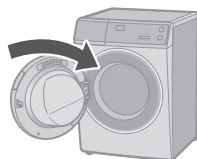


Long pile

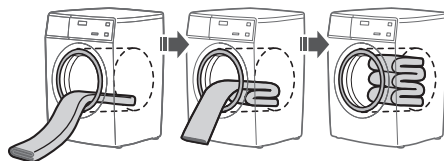
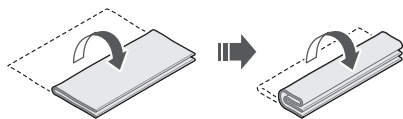


Fake fur

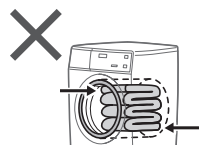
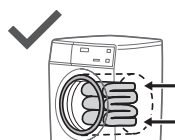
NOTE



Putting blankets into the drum



NOTE



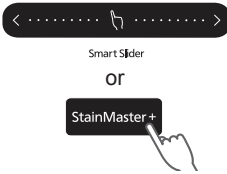
Changing Program Settings

■ Preparing

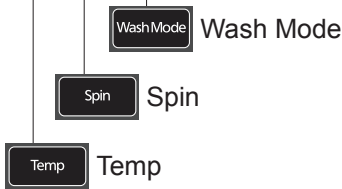
- Sort the laundry and put it into the drum. (P. 8)
- Add the detergent. (P. 12)



2 Select a program. (P. 16)



3 Change the program's settings.



- Available options and setting ranges are different depending on the program. (P. 18)
- An alarm sounds if you select an option that is unavailable.







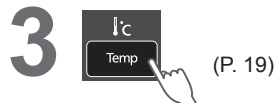
Temp

Change the washing temperature.



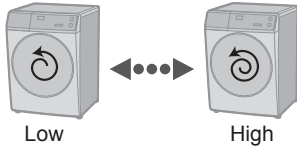
■ Setting guide

Low	High
<ul style="list-style-type: none"> ● Colours 	<ul style="list-style-type: none"> ● White 
<ul style="list-style-type: none"> ● Lightly Soiled 	<ul style="list-style-type: none"> ● Heavily Soiled 
<ul style="list-style-type: none"> ● Easily shrinks 	<ul style="list-style-type: none"> ● Cotton







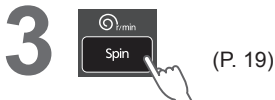
r/min Spin

Change the spin speed.



■ Setting guide

 <p>Low</p>	 <p>High</p>
<ul style="list-style-type: none"> ● To reduce wrinkling 	<ul style="list-style-type: none"> ● To dry more thoroughly 









■ To change the setting while washing



Wash Mode

Select a combination of wash, rinse and spin.



 *1	Wash
 *2	Rinse
 *2	Spin
	Wash and rinse
	Wash and spin
	Rinse and spin

*1 Water is drained after wash process.

*2 Drains first if there is water in the drum.

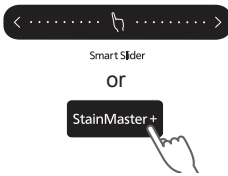
Changing Program Settings (continued)

■ Preparing

- Sort the laundry and put it into the drum. (P. 8)
- Add the detergent. (P. 12)



2 Select a program. (P. 16)



3 Change the program's settings.

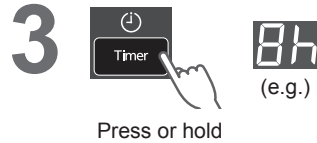
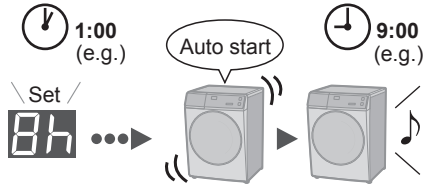


- Available options and setting ranges are different depending on the program. (P. 18)
- An alarm sounds if you select an option that is unavailable.



Timer

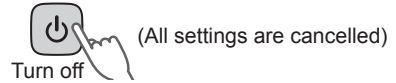
Set how many hours later to finish operation. (Up to 24 hours)



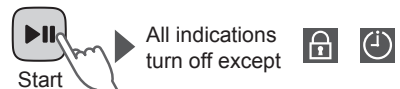
■ To check a preset time



■ To cancel settings



NOTE



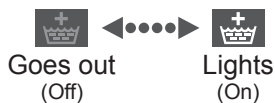
- Not available: P. 19

Rinse+

Add an extra rinse.



3



■ To change the setting while washing



Changing Program Settings (continued)

■ Preparing

- Sort the laundry and put it into the drum. (P. 8)
- Add the detergent. (P. 12)



2 Select a program. (P. 16)



Smart Slider

OR



3 Change the program's settings.



Blue Ag+
Auto Tub Care



- Available options and setting ranges are different depending on the program. (P. 18)
- An alarm sounds if you select an option that is unavailable.



Auto Tub Care

Add tub cleaning process.






3 V105FR1 V10FR1 V90FR1



V10FC1 V95FC1 V90FC1



  
Goes out (Off) Lights (On)

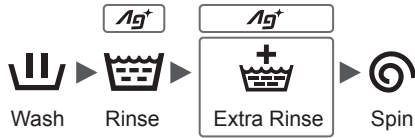
NOTE

- The setting is memorized.

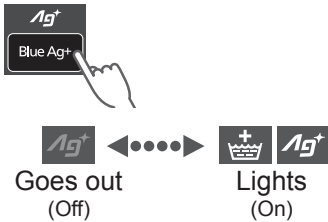
Ag+ Blue Ag+

V105FR1 | V10FR1 | V90FR1

Bacteria elimination function (Max. 3.0 kg).



3



■ Service life for Ag+ case

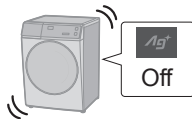
- “Blue Ag+” works for about 300 to 350 times (for about 7 years if used once a week).
- Replace the case when the contents are decreased.



- Replace
⇒ (P. 33)



- Wash without “Ag+”



NOTE

- Do not use the water for other purposes.

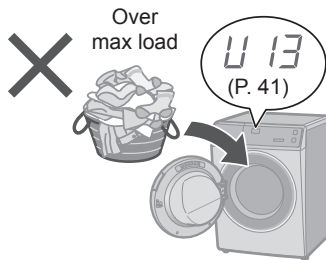







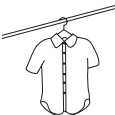




- The kind of clothes, detergent, softener, and water hardness may affect the result.
- Stop use if itchy, etc.



Dry Assist (Dry only)

This function cannot be set with other washing programs at the same time.



Dry Assist	Indicator (min)	Description	Max load (kg)
• Lite Dry		After spin at 1400 r/min	1.0
		 e.g.) 5 shirts	
• Finish Dry		Additional drying of clothes that are not dry enough	2.0
		After hang-dry  ↓ 	
• Hygiene Dry		After spin at 1400 r/min	0.5
		Bacteria Elimination  e.g.) 1 shirt, 2 children's trousers, 1 pair of socks	

NOTE

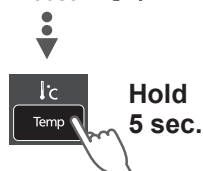
- The door is locked during drying.



- To open the door



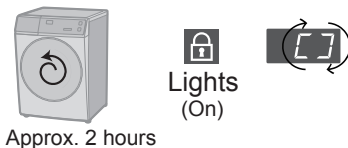
Pause



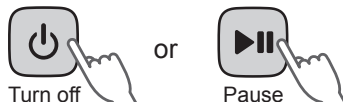
Start cooling
9 to 24 min.





- After drying, the drum will rotate every 5 minutes for 40 seconds to prevent wrinkles caused by leaving the clothes unattended.



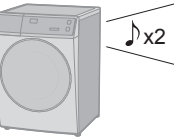
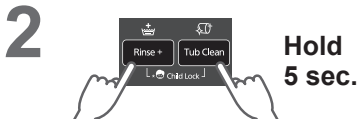
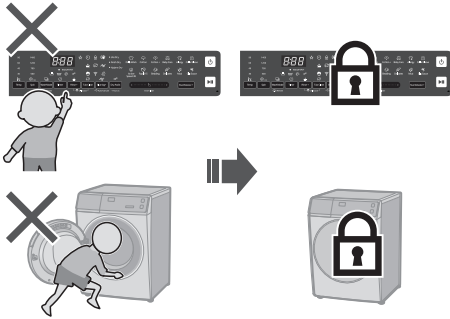
- To open the door:



Symptoms	Tips for nice finish
<ul style="list-style-type: none"> ● Drying is insufficient ● Drying is uneven 	<ul style="list-style-type: none"> ● Reduce clothing amount.  <ul style="list-style-type: none"> ● Classify clothing. (P. 28) ● Adjust drying time to get your expected drying performance. ● Use "Finish Dry" 30 min for additional drying.

Changing Appliance Settings

Setting the Child Lock



Lights
(On)

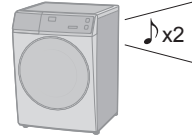
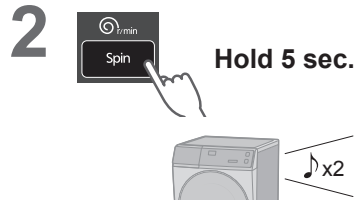
■ **To cancel:**

Same procedure x4



Goes out
(Off)

Cancelling the buzzer



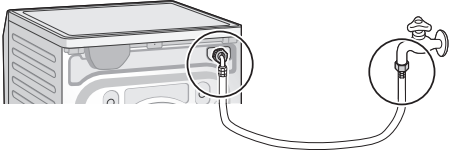
■ **To reset:**



Same procedure x4

Maintenance

Water supply filter

If water does not flow smoothly



1  



Empty

2  

On

3  **Select** 

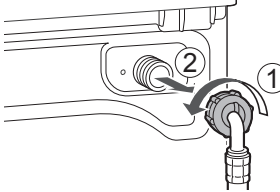
Smart Slider Daily Wash

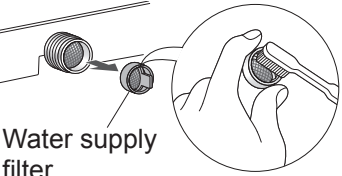
4    

Start 1 min. Turn off

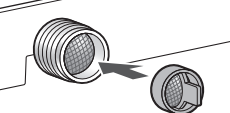
5 Remove and clean the filter

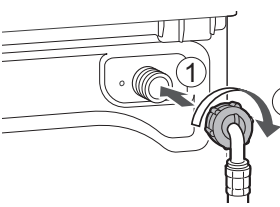


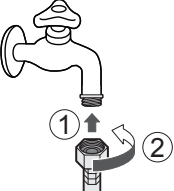
6 

7 

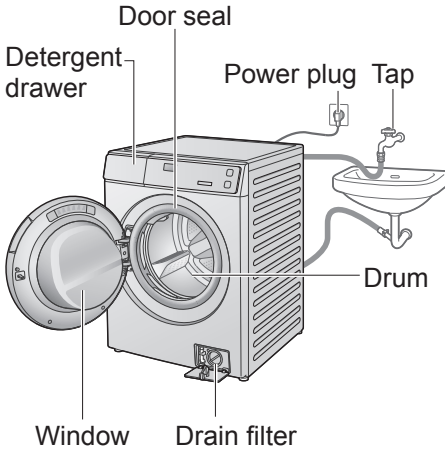
Water supply filter

8 

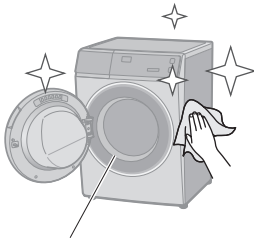
9 

10 

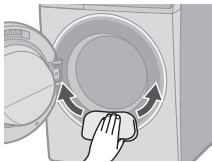
Maintenance (continued)



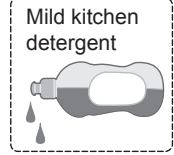
Appliance



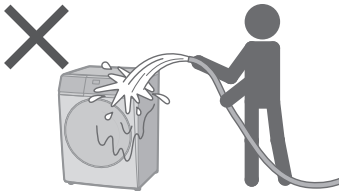
Door seal



For heavy soil

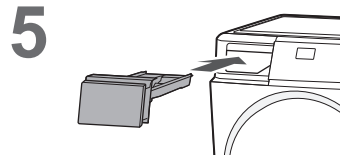
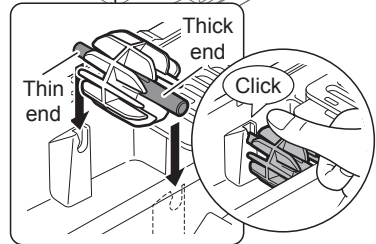
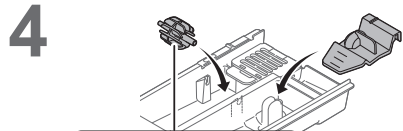
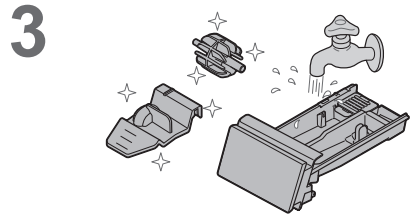
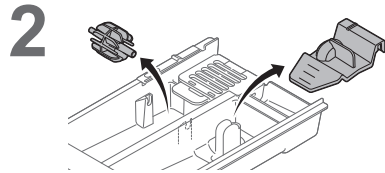
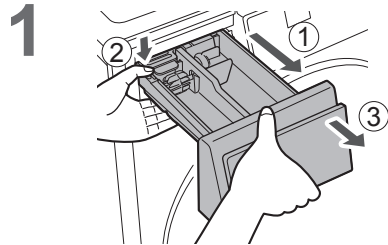


NOTE



- Do not use gritty cleaners or thinners, or products containing alcohol or paraffin oil.

Detergent drawer

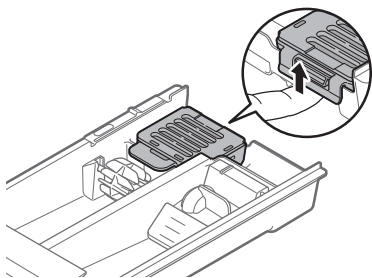


If the contents are decreased

■ Change Ag+ case

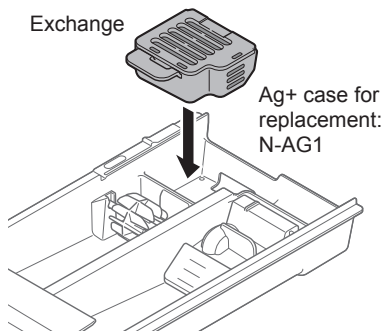
V105FR1 | V10FR1 | V90FR1

1



2


Exchange



NOTE

- You cannot open Ag+ case.

Drum

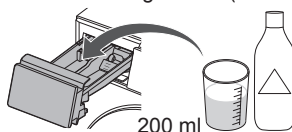
Once a month or if  flashes
<Tub Clean>

1



2

Whitening bleach (chlorine bleach)

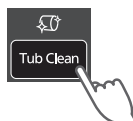


3



No clothing

4




5



Approx.
3:45



NOTE

- If the “Tub Clean” program is not run, the indicator  goes off when other program is run 3 times.

Maintenance (continued)

Drain filter

Once a month

Be sure to drain water in the drum before this procedure.



CAUTION



Hot water
(possibly scalding water)

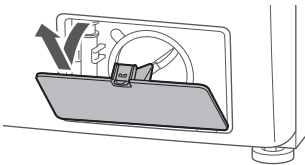


1

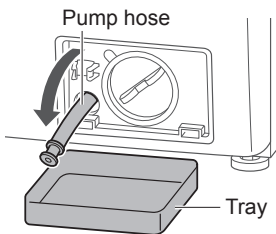


Turn off

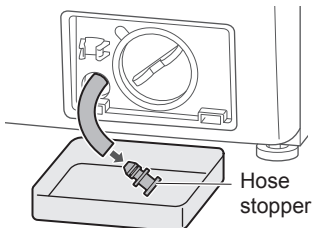
2



3



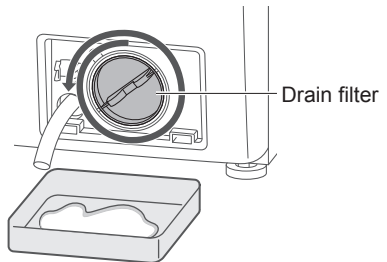
4



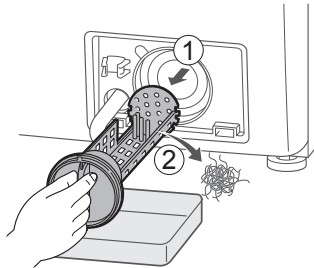
5



6



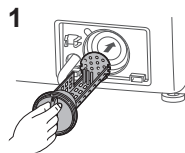
7



8

Replace

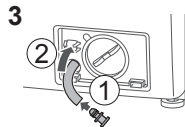
1



2 Until it is in place





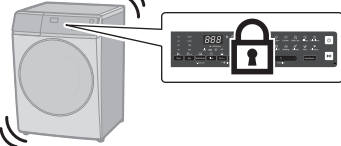

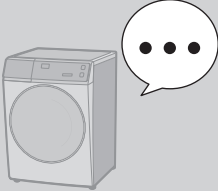

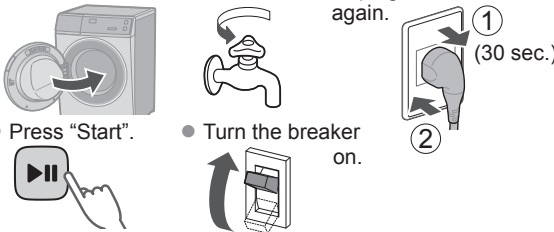

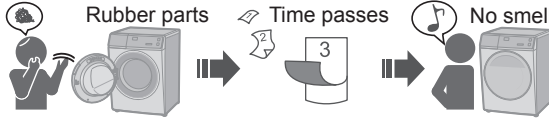

3





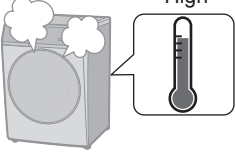







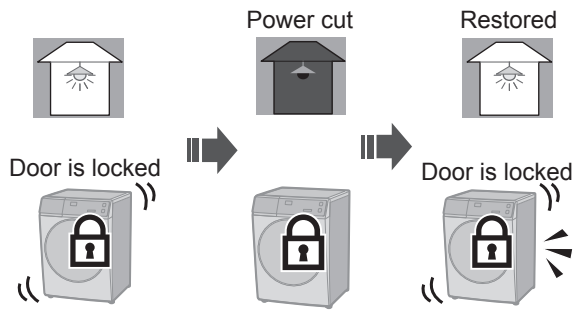
4


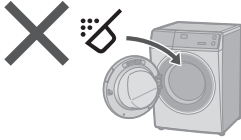
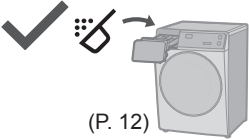
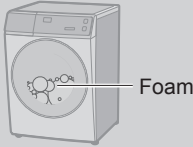




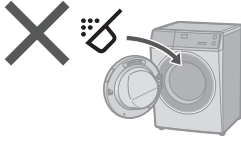
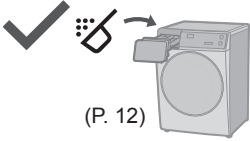
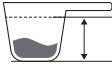




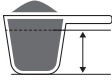

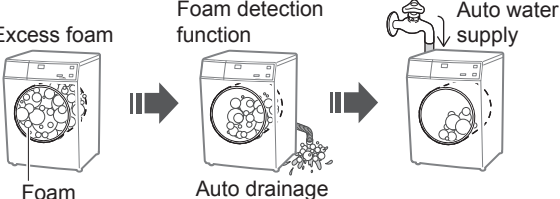


Troubleshooting

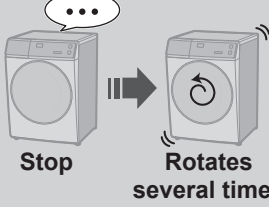
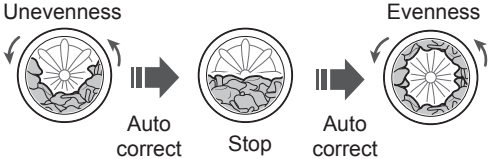
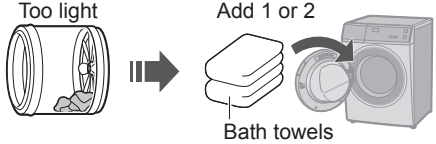
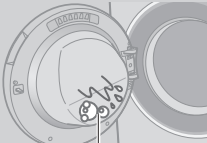
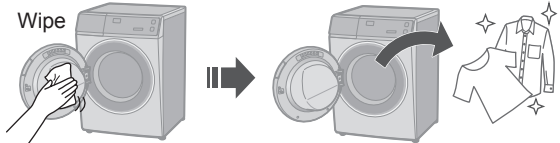

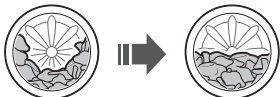

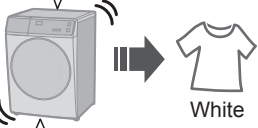
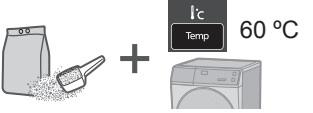
	Symptoms	Points to be checked
Main unit	<p>Touch the buttons</p>  <p>↓</p>  <p>No reaction</p>	<p><input type="checkbox"/> Possible cause</p> <ul style="list-style-type: none"> ● During an operation  <p><input type="checkbox"/> Try</p> <ul style="list-style-type: none"> ● Child Lock (P. 30)  <p>(Off)</p>
	<p>No operation</p> 	<p><input type="checkbox"/> Check</p> <ul style="list-style-type: none"> ● Power cut ● Timer  <p><input type="checkbox"/> Try</p> <ul style="list-style-type: none"> ● Close the door. ● Turn on. ● Unplug and insert again. ● Press "Start". ● Turn the breaker on.  <p>(30 sec.)</p>
	<p>Odour of rubber</p> 	<p><input type="checkbox"/> Possible cause</p>  <p><input type="checkbox"/> Try</p> <p> Tub Clean (P. 33)</p>








Troubleshooting (continued)

	Symptoms	Points to be checked
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Main unit</p> <p>Door does not open</p> 	<p>□ Possible cause</p> <ul style="list-style-type: none"> • During an operation (washing or drying)  <p>Door is locked. To open the door:</p> <ul style="list-style-type: none"> • washing (P. 14) • drying (P. 29) <p>□ Check</p> <ul style="list-style-type: none"> • Temperature • Water level  <p>High</p>  <p>High</p>	<p>□ Try</p> <ul style="list-style-type: none"> • Child Lock (P. 30)  <ul style="list-style-type: none"> • During an operation <ol style="list-style-type: none"> 1  Turn off 2  On 3  Wash Mode (P. 23) 4  Spin  <p>Open</p>
	<p>NOTE</p>  <p>Door is locked</p> <p>Power cut</p> <p>Restored</p> <p>Door is locked</p>	


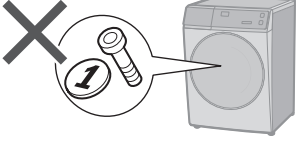
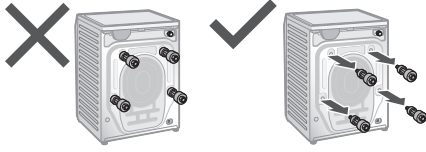
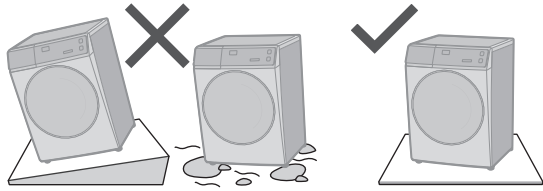
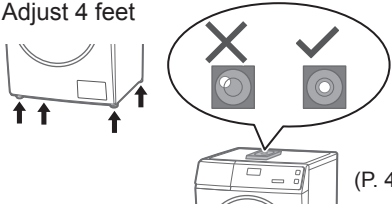

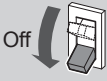
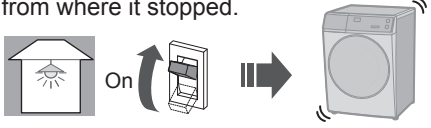
	Symptoms	Points to be checked
Detergent and foam	After washing 	<input type="checkbox"/> Check   (P. 12)
		<input type="checkbox"/> Possible cause <ul style="list-style-type: none"> ● The amount of foam varies. <ul style="list-style-type: none"> ● Temperature ● Water level ● Water softness   
	Not enough 	<input type="checkbox"/> Check <ul style="list-style-type: none"> ● Powder detergent   (P. 12) <ul style="list-style-type: none"> ● Too little detergent ● Low foam detergent ● Heavily soiled ● Load too large    
	Too much 	<input type="checkbox"/> Check <ul style="list-style-type: none"> ● Too much detergent 
Wash	During a wash 	<input type="checkbox"/> Possible cause <ul style="list-style-type: none"> Excess foam Foam detection function Auto water supply 

Troubleshooting (continued)


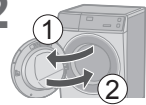

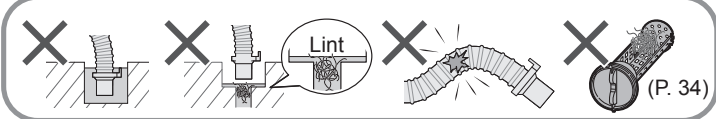




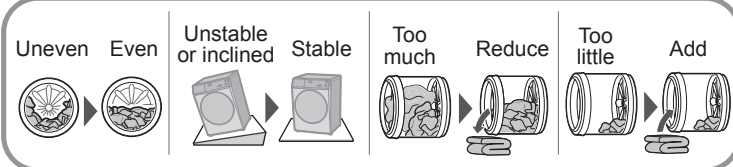

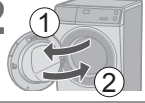

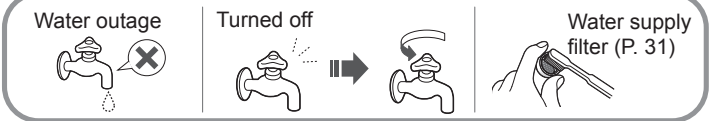
	Symptoms	Points to be checked
Rinse/Spin	<p>During the spin process</p>  <p>Stop → Rotates several times</p>	<p><input type="checkbox"/> Possible cause</p> <p>Unevenness</p>  <p>Auto correct → Stop → Auto correct</p> <p>Evenness</p> <p><input type="checkbox"/> Try</p> <p>Too light</p>  <p>Add 1 or 2 Bath towels</p>
	<p>After washing</p>  <p>Foam or water</p>	<p><input type="checkbox"/> Try</p>  <p>Wipe</p>
Laundry	<p>Spin changes to rinse</p>  <p>Spin → Rinse</p>	<p><input type="checkbox"/> Possible cause</p> <ul style="list-style-type: none"> If clothes are uneven, this appliances automatically corrects unevenness using the rinse process. 
	<p>If the laundry yellows</p>  <p>Yellow</p>	<p><input type="checkbox"/> Try</p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p>V105FR1 V10FR1 V90FR1</p> <p> Off</p> </div>  <p>White</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">  <p>Temp 60 °C</p> </div>

	Symptoms	Points to be checked	
Time	<p>During a wash</p> <p>Displayed time</p> <p>0:57 ... → 0:59</p> <p>Changes</p>	<p><input type="checkbox"/> Possible cause</p> <ul style="list-style-type: none"> ● Remaining time is corrected during operation.  <p>Approximate → Corrected</p> <ul style="list-style-type: none"> ● If the settings changed ● If clothes are uneven   <p>➡ The remaining time may increase.</p>	
	<p>During water drainage</p> 	<p><input type="checkbox"/> Possible cause</p> <ul style="list-style-type: none"> ● This is normal. The drain pump is working. 	
	<p>During spin process</p> 	<p><input type="checkbox"/> Possible cause</p> <ul style="list-style-type: none"> ● This is normal. Anti-foam leak part is working at the exhaust port. 	
	Noise	<p>Sound of fan rotating</p> 	<p><input type="checkbox"/> Possible cause</p> <ul style="list-style-type: none"> ● This is normal. The drain pump is working.
		<p>Motor emits a sound</p> 	<p><input type="checkbox"/> Possible cause</p> <ul style="list-style-type: none"> ● This is normal. The motor will make a short sound when the drum engages.











Troubleshooting (continued)

	Symptoms	Points to be checked
Noise	<p>Unusual noise (or vibration)</p> 	<p><input type="checkbox"/> Check</p> <ul style="list-style-type: none"> ● Metal items  ● Anchor bolts (P. 45)  ● Slope or an unstable surface  ● Adjust 4 feet  <p>(P. 45)</p>
Others	<p>Power cut</p>  <p>Breaker</p> <p>Off </p>	<p><input type="checkbox"/> Check</p> <ul style="list-style-type: none"> ● When the power recovers, operation resumes from where it stopped. 


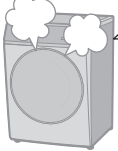



Error Display

Error Display	Points to be checked		
<p>U 11</p> <p>Unable to drain</p>	<p>1 Check</p> 	<p>2</p> 	<p>3</p>  <p>Start</p>  <p>(P. 34)</p>
<p>U 12</p> <p>Door is open</p>	<p>1</p> 	<p>2</p>  <p>Start</p>	
<p>U 13</p> <p>Unable to spin / dry</p>	<p>1 Check</p>	<p>2</p> 	<p>3</p>  <p>Start</p>  <p><Dry Assist> Spin Too wet (1400 r/min)</p> 
<p>U 14</p> <p>Unable to supply water</p>	<p>1 Check</p>	<p>2</p> 	<p>3</p>  <p>Start</p>  <p>Water supply filter (P. 31)</p>

Error Display (continued)

Error Display	Points to be checked
 <p>Unable to spin</p>	<p>1 Restart</p>  Turn off  On <p>2 Run "Rapid 15"</p> 
	<p>• Next time:</p>   <p>Low foam detergent</p>
	<p>1</p>  <p>2</p>  <p>3</p> 

Information

 <p>Unable to open</p>	<p>Hot</p>  <p>During drying (P. 29)</p>  <p>Hold 5 sec.</p> <p>Start cooling</p>  <p>9 to 24 min.</p> 
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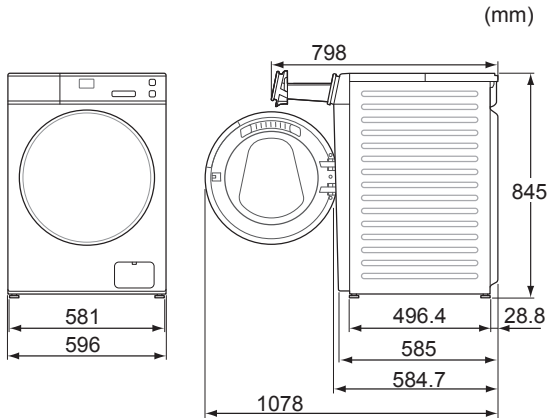
Choosing the Right Location



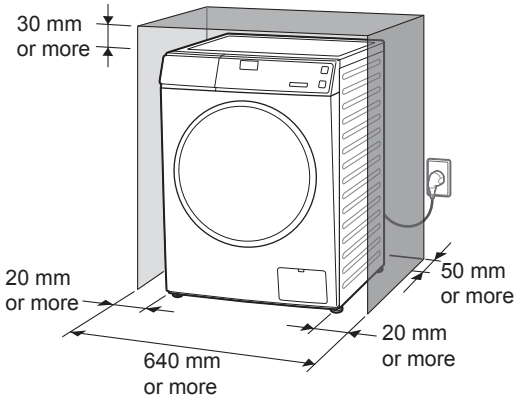
Make sure to ask a service person for installation.

- Do not install the appliance by yourself.
- Follow this installation method. If you do not, Panasonic will not be liable for any accidents or damages.

Appliance dimensions

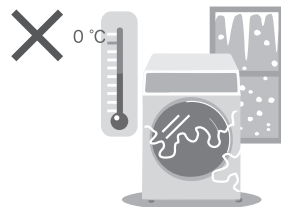
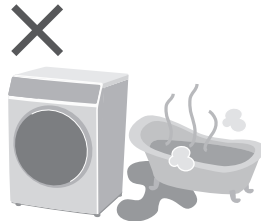
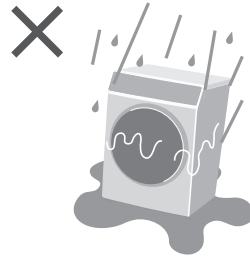


Set-in installation



- Do not let the metallic portions of the appliance come into contact with metal sinks or other appliances.

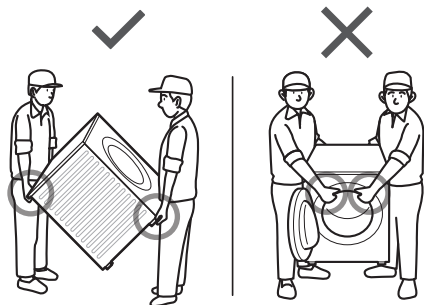
Check the location.



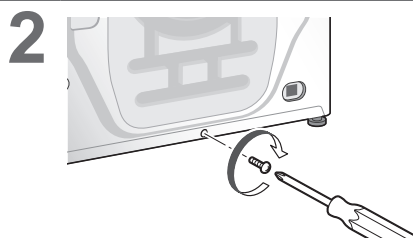
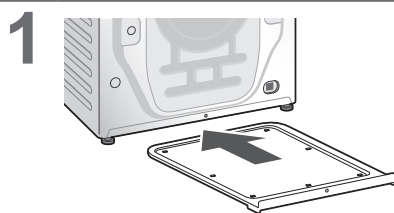
Installation **Moving and Installing**

Carrying the appliance

Do not do it alone.

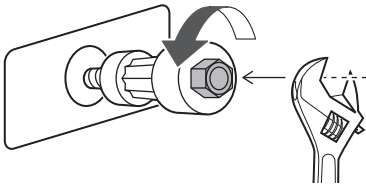
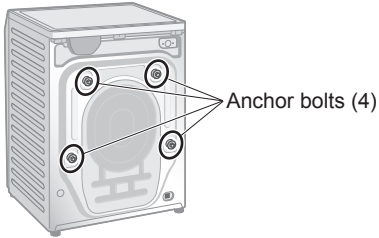


Installation of bottom cover

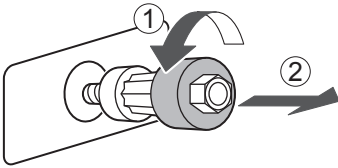


Removing the anchor bolts

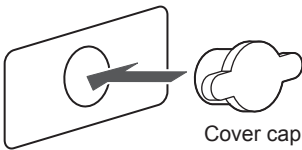
1



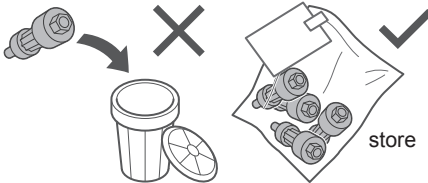
2



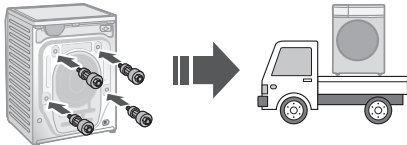
3



NOTE

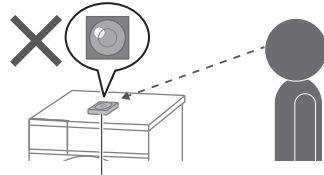


■ Moving the appliance again



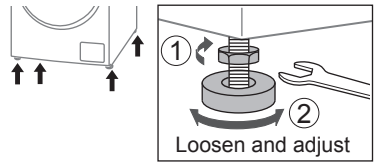
Levelling the appliance

1

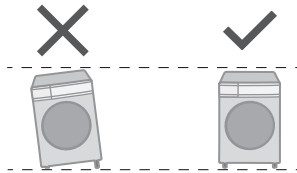
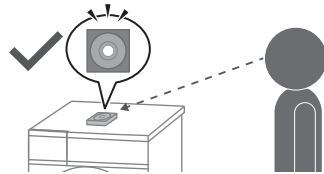


Spirit level (not supplied)

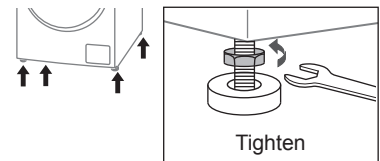
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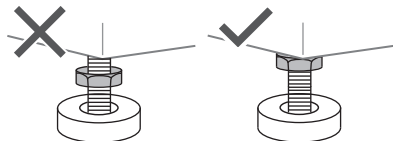
3



4



NOTE



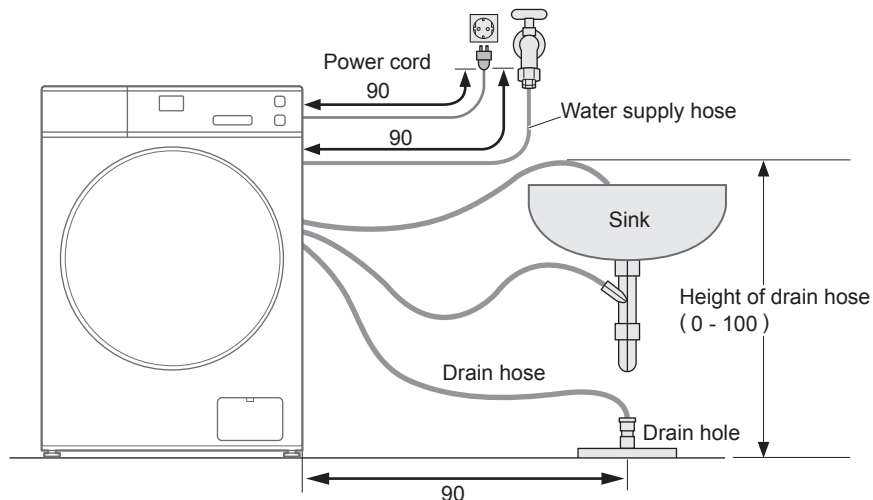
Installation **Connecting the Hoses**

Connect the hoses properly to prevent water leaks.

Maximum connection distances for hoses and the power cord

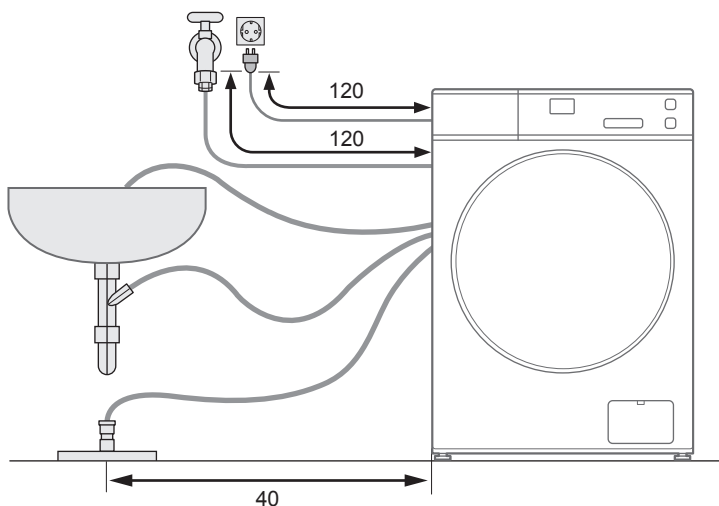
Right side connection

(cm)



Left side connection

(cm)

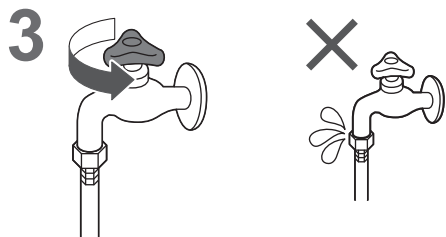
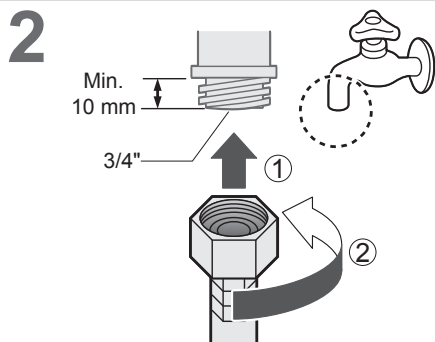
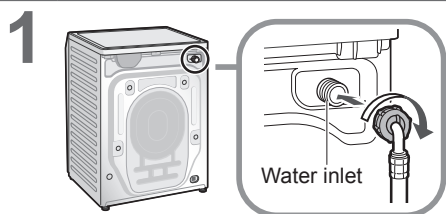


Water supply hose

■ Connecting the water supply hose

⚠ CAUTION

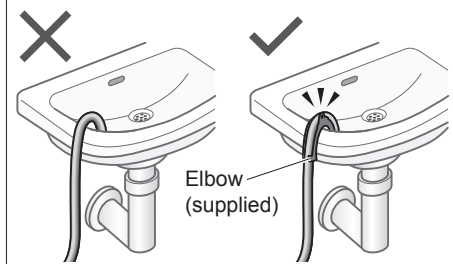
- Tighten the nut firmly.
- Do not twist, squash, modify or cut the hose.



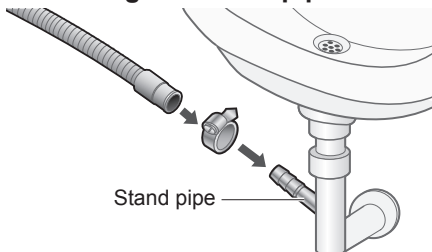
Drain hose

■ Draining to a sink or wash basin

NOTICE



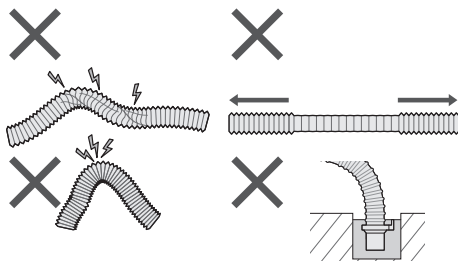
■ Draining to a stand pipe



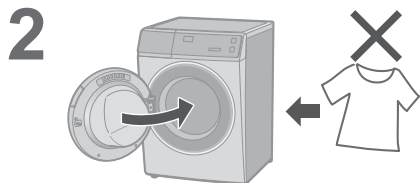
■ Draining to a drain hole




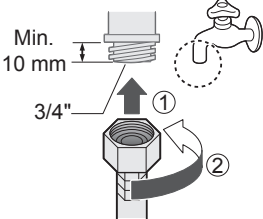

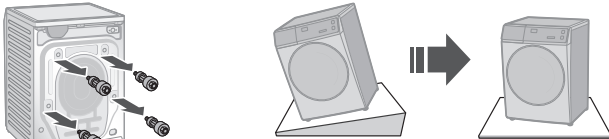
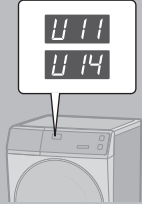
NOTE



Installation Test Run



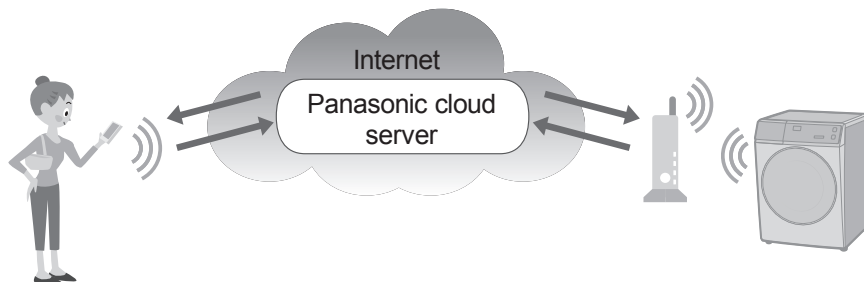
Checking after test run

Problem	Causes and Measures
<p>Water leaks</p> 	<p>Connect the water supply hose properly</p> 
<p>Abnormal sounds</p> 	<ul style="list-style-type: none"> ● Remove the anchor bolts (P. 45) ● Install stably 
<p>Error display</p> 	<p>See P. 41.</p>

Panasonic SmartApp+ V105FR1 V10FR1 V10FC1 V90FR1

More convenient with your smartphone

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

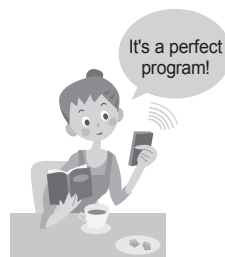


You can operate the washing machine or set the timer with application.

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.

Panasonic SmartApp+ (continued)

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.)

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. 52)

Panasonic SmartApp+ (continued)

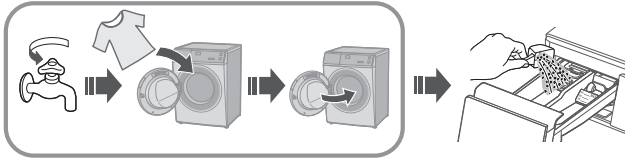
Using the “Panasonic SmartApp+”

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 door completely.

2




Lights
(On)

3





Approx. 2 sec.

After 10 min.
●●●●▶

All other indications
turn off, except:






NOTE

- To cancel the remote control mode and unlock the door → 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.

■ Lamp position

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



Initializing

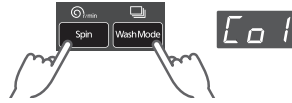
- When you stop using the “Panasonic SmartApp+”
- Suspected use due to unauthorized access
- If the appliance is a pre-owned machine
- When you dispose of or transfer the washing machine

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

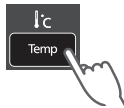


2

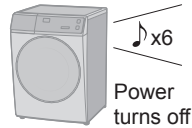


Hold 5 sec.

3



4



Panasonic SmartApp+ (continued)

Error Display

Error display	Causes & Measures
<p>U81</p>	<ul style="list-style-type: none"> Failed to connect the washing machine and the wireless LAN router. Check the following. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> →Keep a distance. →Stop using the device or wait a while and try again. Multiple devices are connected to the router. <ul style="list-style-type: none"> →Turn off the power of the device you are not using.
<p>U82</p>	<ul style="list-style-type: none"> Communication error with the server. There may be a problem with your internet connection. <ul style="list-style-type: none"> → If you do not know the cause, contact your provider, carrier, or router manufacturer.
<p>U83</p>	<ul style="list-style-type: none"> In “Backup connection”, SSID or password of the router is incorrect. <ul style="list-style-type: none"> → Check the description of the router. Failed to connect the washing machine and the router. <ul style="list-style-type: none"> → Check the above “U81”.
<p>U84</p>	<ul style="list-style-type: none"> “Scan connection” failed. Check the following. <ul style="list-style-type: none"> The Bluetooth® setting on your smartphone is turned off. The QR code cannot be read correctly. <ul style="list-style-type: none"> → Make sure that the Bluetooth® setting is ON, and then connect again. If you still cannot connect, please try “Backup connection”.
<p>The app displayed the word like “Cannot communicate with the washing machine.”</p>	<ul style="list-style-type: none"> Communicate again after a while, or check the connection status by the following method. <div style="text-align: center;"> <p>Hold 5 sec.</p> </div> <ul style="list-style-type: none"> → If “U81”, “U82”, etc. are displayed, it is a connection error. Check the above.

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. 50) 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.

Panasonic SmartApp+ (continued)

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*This file is part of the lwIP TCP/IP stack.

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easy-ec

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Specifications

■ For Singapore

	NA-V10FR1 NA-V10FC1	NA-V90FR1 NA-V90FC1
Rated voltage (V)	220 - 240	
Rated frequency (Hz)	50	
Maximum energy rated power input (W)	1600 - 1900	
Heating energy rates power input (W)	For washing	1445 - 1710
	For drying	300 - 350
Maximum spin speed (r/min)	1400	
Product dimensions (W x D x H) (mm)	596 × 585 × 845	
Product weight (kg)	69	
Maximum mass of dry cloth (Wash) (kg)	10.0	9.0
Maximum mass of dry cloth (Dry) (kg)	2.0	
Pressure of tap water (MPa)	0.01 - 1	

■ For Philippines

	NA-V105FR1	NA-V10FR1	NA-V95FC1	NA-V90FC1
Rated voltage (V)	230			
Rated frequency (Hz)	60			
Maximum energy rated power input (W)	1700			
Heating energy rates power input (W)	For washing		1570	
	For drying		325	
Maximum spin speed (r/min)	1400			
Product dimensions (W x D x H) (mm)	596 × 585 × 845			
Product weight (kg)	69			
Maximum mass of dry cloth (Wash) (kg)	10.5	10.0	9.5	9.0
Maximum mass of dry cloth (Dry) (kg)	2.0			
Pressure of tap water (MPa)	0.01 - 1			

Complies with
IMDA Standards
DB01017