

LG Electronics Inc.

P/No.: MFL41480141

Washing Machine
OWNER'S MANUAL

WD-1457(0~9)RD
WD-1457ARD
WD-1457ERD

Thank you for buying a
LG Fully Automatic Washing machine.
Please read your owner's manual carefully, it provides instructions on safe installation, use and maintenance.
Retain it for future reference.
Record the model and serial numbers of your washing machine.

Product Feature



- **Direct Drive System**
  The advanced Brushless DC motor directly drives the drum without belt and pulley.



- **Water Circulation**
  Spray detergent solution and water onto the load continuously.
  Clothes are soaked more quickly and thoroughly during wash cycle.
  The detergent suds can be removed more easily by the water shower during rinse cycle. The water circulation system uses both water and detergent more efficiently.



- **Built-in Heater**
  Internal heater automatically heats the water to the best temperature on selected cycles.



- **Child Lock**
  The Child lock prevents children from pressing any button to change the settings during operation.



- **More economical by Intelligent Wash System**
  Intelligent Wash System detects the amount of load and water temperature, and then determines the optimum water level and washing time to minimize energy and water consumption.



- **Low noise speed control system**
  By sensing the amount of load and balance, it evenly distributes load to minimize the spinning noise level.



- **Steam Washing and Refresh**
  Steam Washing features upgraded washing performance with low energy consumption. Refresh cycle reduces wrinkles from dry clothes.



- **Automatic Wash Load Detection**
  Automatically detects the load and optimizes the washing time.



- **Safety device (Aqua lock)**
  Aqua lock System is designed for detecting water leak during operation to prevent water from flooding over the floor.



- **Auto Restart**
  Auto Restart allows the program to restart all by itself in case of power failure. It does from the stage where it stopped.

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Warnings

READ ALL INSTRUCTIONS AND EXPLANATION OF THE INSTALLATION BEFORE USE

⚠ WARNING! **For your safety, the information in this manual must be followed to minimize the risk of fire or explosion, electric shock, or to prevent property damage, personal injury, or loss of life.**

IMPORTANT SAFETY INSTRUCTIONS

WARNING : To reduce the risk of fire, electric shock, or injury to persons when using the washer, follow basic precautions, including the following:

- Before installation, check exterior damages. If it has, do not install.
- Do not install or store the washer where it will be exposed to the weather.
- Do not tamper with controls.
- Do not repair or replace any part of the washer or attempt any servicing unless specifically recommended in the user-maintenance instructions or published user-repair instructions that you understand and have the skills to carry out.
- Keep the area underneath and around your appliances free of combustible materials such as lint, paper, rags, chemicals, etc.
- Close supervision is necessary if this appliance is used by or near children or infirm persons. Do not allow them to play on, with, or inside this or any other appliance.
- Keep washer away from fire.
- Do not leave the washer door open. An open door could entice children to hang on the door or crawl inside the washer.
- Never reach into washer while it is running. Wait until the drum has completely stopped.
- The laundry process can reduce the flame retardant of fabrics.
- To avoid such a result, carefully follow the garment manufacturer's wash and care instructions.
- Do not wash or dry articles that have been cleaned in, washed in, soaked in, or spotted with combustible or explosive substances (such as wax, oil, paint, gasoline, degreasers, dry-cleaning solvents, kerosene, etc.) which may ignite or explode. Oil may remain in the tub after a whole cycle resulting in fire during drying. So, do not load oiled clothes.
- Do not slam the washer door closed or try to force the door open when locked. This could result in damage to the washer.
- When the machine runs at high temperature, the front door may be very hot. Don't touch it.
- To minimize the possibility of electric shock, unplug this appliance from the power supply or disconnect the washer at the household distribution panel by removing the fuse or switching off the circuit breaker before attempting any maintenance or cleaning.
- When unplugging power cord, do not pull out by grasping the cord. Otherwise, the power cord may be damaged.
- Never attempt to operate this appliance if it is damaged, malfunctioning, partially disassembled, or has missing or broken parts, including a damaged cord or plug.
- Before discarding an old machine unplug it. Render the plug useless. Cut off the cable directly behind the appliance to prevent misuse.
- When a product was under water, Please call service center. The risk of electric shock and fire.

※ Do not push down the door excessively, when washer door open. This could topple over the washer.

SAVE THESE INSTRUCTIONS

GROUNDING INSTRUCTIONS

This appliance must be grounded. In the event of malfunction or breakdown, grounding will reduce the risk of electric shock by providing a path of least resistance for electric current. This appliance is equipped with a cord having an equipment-grounding conductor and grounding plug. The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinance.

- Do not use an adapter or otherwise defeat the grounding plug.
- If you don't have the proper outlet, consult an electrician.

WARNING : Improper connection of the equipment-grounding conductor can result in risk of electric shock. Check with a qualified electrician or serviceman if you are in doubt as to whether the appliance is properly grounded. Do not modify the plug provided with the appliance - if it does not fit the outlet, have a proper outlet installed by a qualified electrician.

Warnings

To minimize the risk of fire in a tumble dryer, the following should be observed:

- Items that have been spotted or soaked with vegetable or cooking oil constitute a fire hazard and should not be placed in a tumble dryer.

  Oil-affected items can ignite spontaneously, especially when exposed to heat sources Such as in a tumble dryer. The items become warm, causing an oxidation reaction in the oil. Oxidation creates heat. If the heat cannot escape, the items can become hot enough to catch fire. Piling, stacking or storing oil-affected items can prevent heat from escaping and so create a fire hazard.

  If it is unavoidable that fabrics that contain vegetable or cooking oil or have been contaminated by hair care products be placed in a tumble dryer they should first be washed in hot water with extra detergent-this will reduce, but not eliminate, the hazard. Washed in hot water with extra detergent-this will reduce, but not eliminate, the hazard. The 'cool down' cycle of tumble dryers should be used to reduce the temperature of the items. They should not be removed from the tumble dryer or piled or stacked while hot.
- Items that have been previously cleaned in, washed in, soaked in or spotted with petrol/gasoline, dry-cleaning solvents or other flammable or explosive substances should not be placed in a tumble dryer.
  Highly flammable substances commonly used in domestic environments include acetone, denatured alcohol, petrol/gasoline, kerosene, spot removers (some brands), turpentine, waxes and was removers.
- Items containing foam rubber (also known as latex foam) or similarly testured rubber. like materials should not be dried in a tumble dryer on a heat setting.
  Foam rubber materials can, when heated, produce fire by spontaneous combustion.

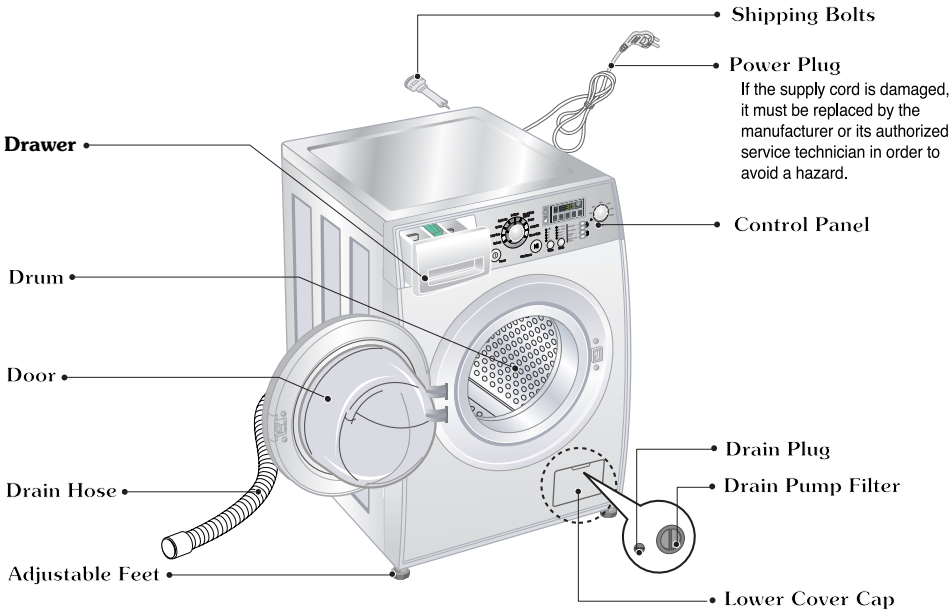
- Fabric softeners or similar products should not be used in a tumble dryer to eliminate the effects of static electricity unless this practice is specifically recommended by the manufacturer of the fabric softener or product.
- Undergarments that contain metal reinforcements should not be placed in a tumble dryer.

  Damage to the tumble dryer can result if metal reinforcements come loose during drying. When available a drying rack could be used for such items.

- Plastic articles such as shower caps or babies waterproof napkin covers should not be placed in a tumble dryer.

- Rubber-backed articles, clothes fitted with foam rubber pads, pillows, galoshes and rubber-coated tennis shoes should not be placed in a tumble dryer.

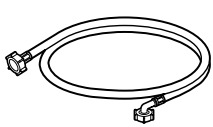
Specification



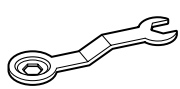
■ Name	: Front loading washing machine
■ Power supply	: 220 - 240V~, 50Hz
■ Size	: 600mm(W) × 640mm(D) × 850mm(H)
■ Weight	: 66kg
■ Wash Capacity / Max. Watt	: 9kg / 2100W
■ Dry Capacity / Max. Watt	: 5kg / 1500W
■ Max. Watt (Steam)	: 1100W
■ Spin speed	: No Spin / 400 / 800 / 1000 / 1400
■ Water consumption	: 149 ℓ
■ Permissible water pressure	: 0.3-10 kgf/cm² (30-1000 kPa)

✻ The appearance and specifications may be varied without notice to raise the units quality.

■ Accessories



Inlet hose(1EA)



Spanner

Installation

Install or store where it will not be exposed to temperature below freezing or exposed to the weather.
Properly ground washer to conform with all governing codes and ordinances.
The base opening must not be obstructed by carpeting when the washing machine is installed on a carpeted floor.

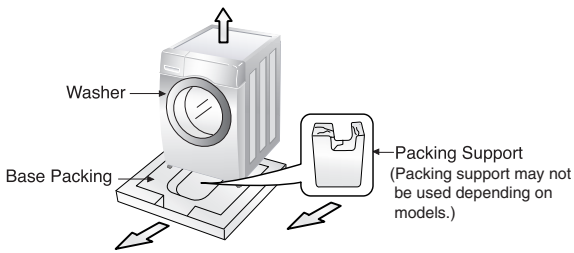
In countries where there are areas which may be subject to infestation by cockroaches or other vermin, pay particular attention to keeping the appliance and its surroundings in clean condition at all times.
Any damage which may be caused by cockroaches or other vermin will not be covered by the appliance guarantee.

■ Transit bolts

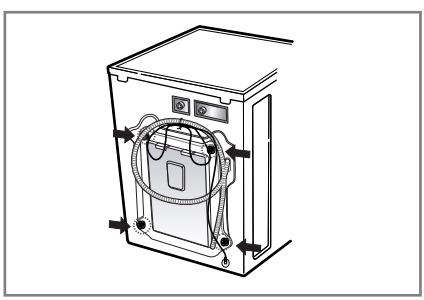
The appliance is fitted with transit bolts to prevent internal damage during transport.

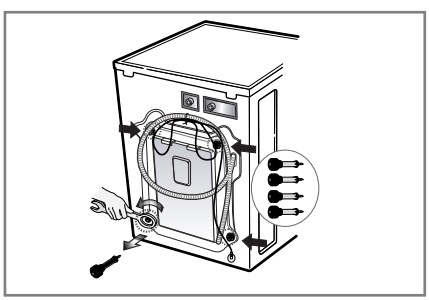
- Packing and all transit bolts must be removed before using the washer.

☞ When unpacking the base, be sure to remove the additional packing support in the middle of the base packing.



■ Removing transit bolts





1. To prevent internal damage during transport, the special 4 bolts are locked. Before operating the washer, remove the bolts along with the rubber bungs.

- If they are not removed, it may cause heavy vibration, noise and malfunction.

2. Unscrew the 4 bolts with the spanner supplied.

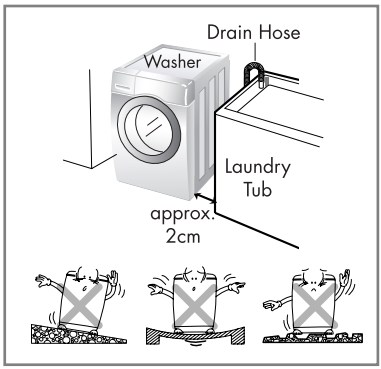
3. Take out the 4 bolts along with the rubber bungs by slightly twisting the bung. Keep the 4 bolts and the spanner for the future use.

- Whenever the appliance is transported, the transit bolts must be refitted.

4. Close the holes with the caps supplied.

Installation

■ Installation place requirement



Level floor :
Allowable slope under entire washer is 1˚

Power outlet :
Must be within 1.5 meters of either side of location of washer. Do not overload the outlet with more than one appliance.

Additional Clearance :
For wall, door and floor modeling is required.
(10cm : rear /2cm:right & left side)

Do not place or store laundry products on top of washer at any times.

They can damage the finish or controls.

■ Positioning

Install the washer on a flat hard floor.
Make sure that air circulation around the washer is not impeded by carpets, rug etc.

- Never try to correct any unevenness in the floor with pieces of wood, cardboard or similar materials under the washer.
- If it is impossible to avoid positioning the washer next to a gas cooker or coal burning stove, an insulation(85x60cm) covered with aluminum foil on the side facing the cooker or stove, must be inserted between the two appliance.
- The washer must not be installed in rooms where the temperature can drop below 0°C.
- Please ensure that when the washer is installed, it is easily accessible for the engineer in the event of a breakdown.
- Adjust all four feet using the transit bolt spanner provided ensuring the appliance is stable, and a clearance of approximately 20mm is left between the top of the washer and the underside of the work-top.

Installation

■ Electrical connection

1. Do not use an extension cord or double adapter.
2. If the supply cord is damaged, it must be replaced by the manufacturer or its service agents or similarly qualified person in order to avoid a hazard.
3. Always unplug the machine and turn off the water supply after use.
4. Connect the machine to an earthed socket in accordance with current wiring regulations.
5. The appliance must be positioned so that the plug is easily accessible.

- Repairs to the washing machine must only be carried out by qualified personnel. Repairs carried out by inexperienced persons may cause injury or serious malfunctioning. Contact your local service center
- Do not install your washing machine in rooms where temperature below freezing may occur. Frozen hoses may burst under pressure. The reliability of the electronic control unit may be impaired at temperatures below freezing point.
- If the appliance is delivered in the winter months and temperatures are below freezing : Place the washing machine at room temperature for a few hours before putting it into operation.

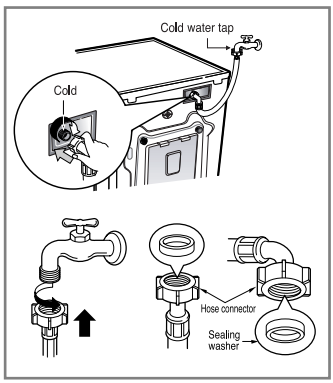
CAUTION

CAUTION concerning the Power Cord

Most appliances recommend they be placed upon a dedicated circuit; that is, a single outlet circuit which powers only that appliance and has no additional outlets or branch circuits. Check the specification page of this owner's manual to be certain.
Do not overload wall outlets. Overloaded wall outlets, loose or damaged wall outlets, extension cords, frayed power cords, or damaged or cracked wire insulation are dangerous. Any of these conditions could result in electric shock or fire. Periodically examine the cord of your appliance, and if its appearance indicates damage or deterioration, unplug it, discontinue use of the appliance, and have the cord replaced with an exact replacement part by an authorized servicer.
Protect the power cord from physical or mechanical abuse, such as being twisted, kinked, pinched, closed in a door, or walked upon. Pay particular attention to plugs, wall outlets, and the point where the cord exits the appliance.

■ Washing Machine is to be connected to the water mains using new hose-sets and old hose-sets should not be used.

■ Connecting water supply hose



▶ *Water supply pressure must be between 30kPa and 1000kPa (0.3~10kgf/cm²)*

▶ *Don't strip or crossthread when connecting Inlet hose to the valve.*

▶ *If the water supply pressure is more than 1000kPa, a decompression device should be installed.*

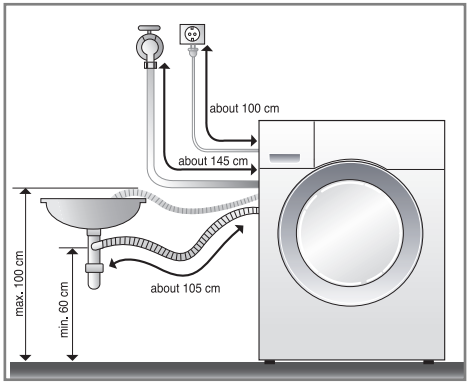
- Two rubber seals are supplied with the water inlet hoses. They are used for preventing water leaks.
- Make sure the connection to taps is tight enough.
- Periodically check the condition of the hose and replace the hose if necessary.
- Make sure that there is no kink on the hose and that it is not crushed.

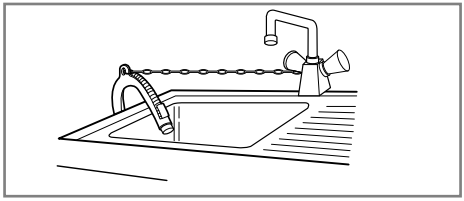
NOTE After completing connection, if water leaks from the hose, repeat the same steps. Use the most conventional type of faucet for water supply. In case the faucet is square or too big, remove the spacing ring before inserting the faucet into the adaptor.

Installation

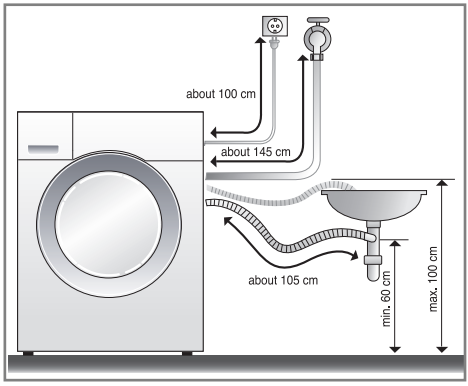
This equipment is not designed for maritime use or for use mobile installations such as caravans, aircraft etc.
Turn off the stopcock if the machine is to be left for any length of time (e.g. holiday), especially if there is no floor drain(gully) in the immediate vicinity.
When disposing of the appliance, cut off the mains cable, and destroy the plug Disable the door lock to prevent young children being trapped inside.
Packaging material (e.g. Films, Styrofoam) can be dangerous for children. There is a risk of suffocation ! Keep all packaging well away from children

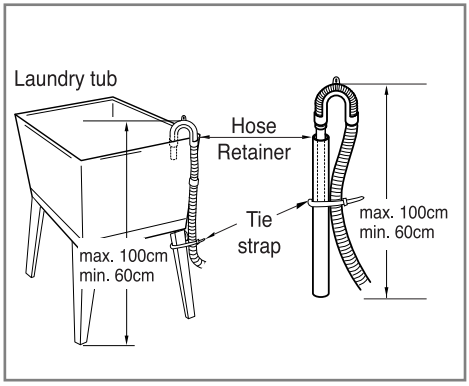
■ Installation of drain hose





- When installing the drain hose sink, secure it tightly with a string.
- Proper securing of the drain hose will protect the floor from damage due to water leakage.

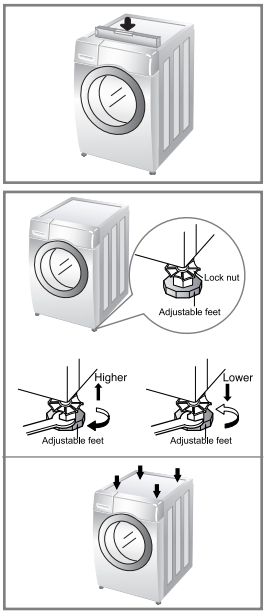




- The drain hose should not be placed higher than 100 cm above the floor. Water in the washer does not drain or drains slowly.
- Proper securing of the drain hose will protect the floor from damage due to water leakage.
- When the drain hose is too long, do not force back into the washer. This will cause abnormal noise.

Installation

■ Level adjustment



1. Adjusting the washing machine level properly prevents excessive noise and vibration.
Install the appliance on a solid and level floor surface, preferably in a corner of the room.

NOTE Timber or suspended type flooring may contribute to excessive vibration and unbalance errors.

2. If the floor is uneven, adjust the adjustable feet as required.
(do not insert pieces of wood etc. under the feet)
Make sure that all four feet are stable and resting on the floor and then check that the appliance is perfectly level. (use a spirit level)

※ ***After the washer is level, tighten the lock nuts up towards of the base of the washer. All lock nuts must be tightened.***

NOTE In the case that the washing machine is installed on a raised platform, it must be securely fastened in order to eliminate the risk that it might fall off.

※ ***Diagonal Check***

When pushing down the edges of the washing machine top plate diagonally, the machine should not move up and down at all. (Please, check both of two directions)
If machine rocks when pushing the machine top plate diagonally, adjust the feet again.

■ Concrete floors

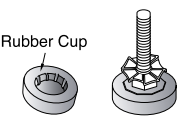
- The installation surface must be clean, dry and level.
- Install washer on a flat hard floor.

■ Tile floors (Slippery floors)

- Position each foot on the Tread Mate and level the machine to suit. (Cut Tread Mate into 70x70 mm sections and stick the pieces on to the dry tile where machine is to be placed.)

※ ***Tread Mate is a self adhesive material used on ladders & steps that prevents slipping.***

■ Wooden floors (Suspended floors)



- Wooden floors are particularly susceptible to vibration.
- To prevent vibration we recommend you place rubber cups under each foot, at least 15mm thick under the washer, secured to at least 2 floor beams with screws.
- If possible install the washer in one of the corners of the room, where the floor is more stable.

※ ***Insert the rubber cups to reduce vibration.***
※ ***You can obtain the rubber cups (p/no.4620ER4002B) from the LG svc dept.***

Important!

- Proper placement and levelling of the washer ensure long, regular and reliable operation.
- The washer must be absolutely horizontal and stand firmly in position.
- It must not "Seesaw" across corners under load.
- The installation surface must be clean, free from floor wax and other lubricant coatings.
- Do not let the feet of the washer get wet. If feet of the washer get wet, slipping may occur.

Care before washing

■ Before the first washing

Select a cycle (COTTON 60°C, add a half load of detergent) allow the unit to wash without clothing. This will remove residues and water from the drum that may have been left during manufacturing.

■ Caring before washing

1. Care Labels

Look for a care label on your clothes. This will tell you about the fabric content of your garment and how it should be washed.

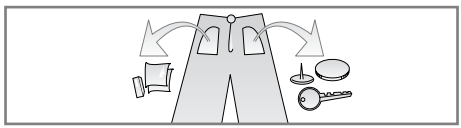
2. Sorting

To get the best results, Sort clothes into loads that can be washed with the same wash cycle. Water temperature and spin speed and different fabrics need to be washed in different ways. Always sort dark colors from pale colors and whites. Wash separately as dye and lint transfer can occur causing discoloration of white etc. If possible, do not wash heavily soiled items with lightly soiled one.

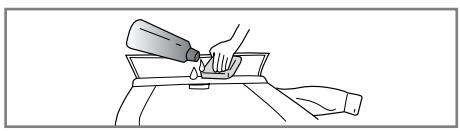
Soil (Heavy, Normal, Light)	Separate clothes according to amount of soil.
Color (White, Lights, Darks)	Separate white fabrics from colored fabrics.
Lint (Lint producers, Collectors)	Wash lint producers and lint collectors separately.

3. Caring before loading

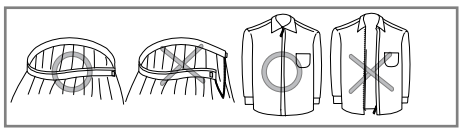
■ **Combine large and small items in a load. Load large items first. Large items should not be more than half the total wash load.**
Do not wash single items. This may cause an out-of-balance load. Add one or two similar items.



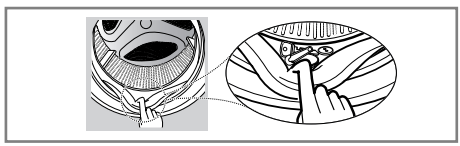
• Check all pockets to make sure that they are empty. Items such as nails, hair clip, matches, pens, coins and keys can damage both your washer and your clothes.



• Close zippers, hooks and strings to make sure that these items don't snag on other clothes.



• Pre treat dirt and stains by brushing a little detergent dissolved in water onto stains like collars and cuffs to help shift dirt.



• Check the folds of the flexible gasket (gray) and remove any small articles,if any.

• Check inside of the drum and remove any left items in it for next wash cycle.

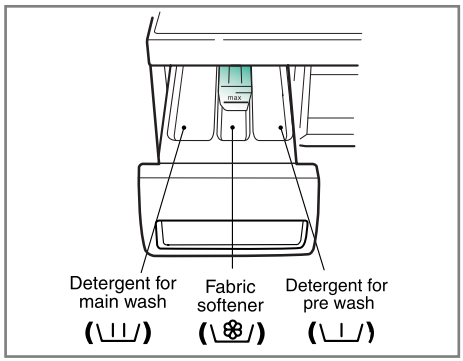


• Remove any clothing or items on the flexible gasket to prevent clothing and the gasket damages.

Adding detergent

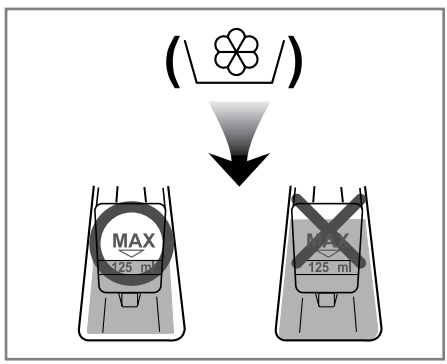
■ Adding detergent and fabric softener

1. The Dispenser Drawer



- Main wash only ➔ \II/
- Pre Wash + Main Wash ➔ \I/ • \II/

2. Adding Fabric Softener



- Do not exceed the maximum fill line. Close the dispenser drawer slowly. Overfilling can cause early dispensing of the fabric softener which could stain clothes.
- Do not leave the fabric softener in the detergent drawer for more than 2 days. (Fabric softener could harden)
- Softener will automatically be added during the last rinse cycle.
- Do not open the drawer when water is supplied.
- Solvents(benzene, etc) are not allowable.

NOTE Do not pour fabric softener directly on the cloths

Adding detergent

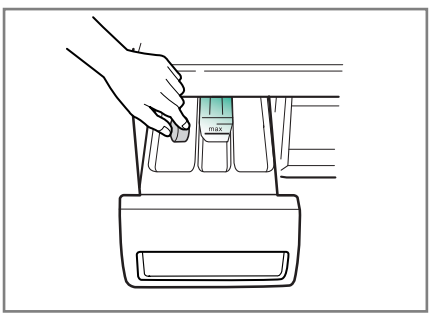
3. Detergent dosage

- *The detergent should be used according to the instruction of the detergent manufacture.*
- *If too much detergent is used, too many suds can occur and this will decrease the washing result or cause heavy load to the motor.*
- *Use powder detergent only for the front loading washer.*

※ If suds occur too much, pleas reduce the detergent amount.

- Detergent usage may need to be adjusted for water temperature, water hardness, size and soil level of the load. For best results, avoid oversudsing.

4. Water softener



- A water softener, such as Anti limescale (Calgon) can be used to cut down on the use of detergent in extremely hard water areas. Dispense according to the amount specified on the packaging.
  First add detergent and then the water softener.
- Use the quantity of detergent as for soft water.

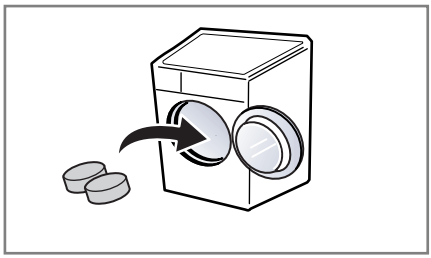
※ Tips

Full load : according to manufacturer's recommendation.
Part load : 3/4 of the normal amount.
Minimum load : 1/2 of full load.

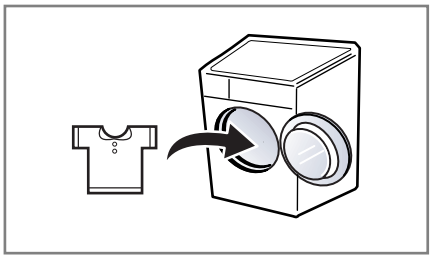
- Detergent is flushed from the dispenser at the beginning of the cycle.

5. Using the Tablets

1) Open the door and Tablets into the drum.



2) Load the laundry into the drum.



3) Close the door.

Function

■ Recommended courses according to the laundry type

Program	Fabric Type	Water Temp. (Option)	Option	Dry (Option)	Maximum Load
Cotton	Color fast garments (shirts, night dresses, pajamas...)and lightly soiled white cotton(underwear)	60°C (Cold, 30°C, 40°C, 95°C)	- Time Delay - Steam Wash - Intensive - Pre Wash - Rinse+ - Medic Rinse	- Low Temp. - Iron - Normal - More - Time	Rating
Synthetic	Polyamide, Acrylic, Polyester	40°C (Cold, 30°C, 60°C)			Less than 4kg
Allergy Care	Allergy care is made for cotton clothes because of high temperature.	95°C (40°C, 60°C)			Less than 4kg
Delicate	Delicate laundry easily damaged	40°C (Cold, 30°C)	- Time Delay - Intensive - Rinse+	–	Less than 2kg
Duvet	Cotton bedding with filling duvet, pillow, blanket, sofa cover with light filling			–	1 king size (9 Tog)
Hand Wash /Wool	"Hand wash" marked delicate and wool laundry	30°C (Cold, 40°C)		–	Less than 2kg
Quick 30	Colored laundry which is lightly soiled fast			- Low Temp. - Iron - Normal - More - Time	Less than 2kg
Rinse+ Spin		No Choose	- Rinse+ - Medic Rinse - Time Delay		Rating
Refresh	Cotton mixed, Polyeter mixed Dress shirts, blouses	No Choose	- Steam Default	–	3 items

✻ **Water Temperature** : Select the water temperature to the wash cycles. Always follow garment manufacture's care label or instructions when laundering.

✻ **Intensive** : When washing full load or heavily soiled laundry, you can increase effectiveness by choosing intensive option.

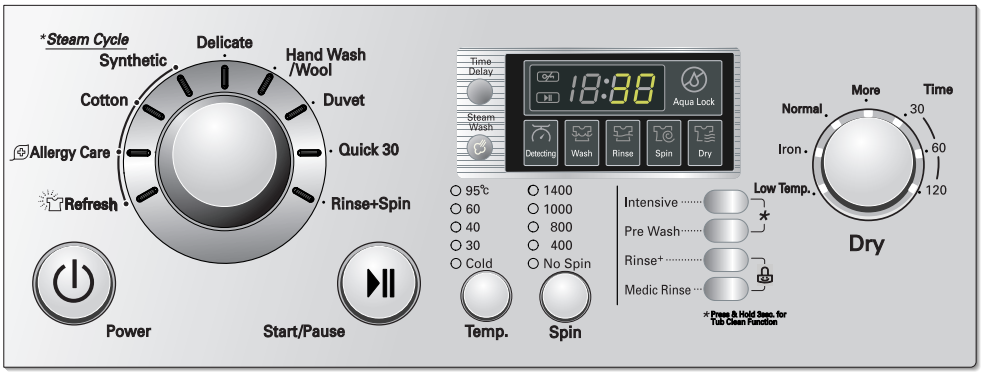
✻ **Pre Wash** : If the laundry is heavily soiled, "Pre Wash" Cotton is recommended. Pre Wash is available in Cotton, Synthetic and Allergy Care program.

✻ **Medic Rinse** : For high effectiveness or more purity in rinse operation you can choose Medic Rinse option. Medic Rinse is default in Allergy Care program.

✻ **Rinse+** : Used to additional rinse, which may assist in removing traces of detergent residue. By selecting Rinse+ function, the Rinse Time and the Rinse water are increased.

✻ **Allergy Care** : This program helps to reduce allergic reactions caused by house dust mite, and it does it by killing and removing the mite in the laundry with the help of high temperature steam and powerful rinse.

How to use washer



1. Cotton automatically selected upon power on.

- Press the **Power** button to start.
- Press the **Start/Pause** button.
- Initial condition
  - ***Wash*** *: Main wash*
  - ***Rinse*** *: 3 times*
  - ***Spin :*** *1400 rpm*
  - ***Water temperature*** *: 60˚C*
  - ***Program*** *: Cotton*

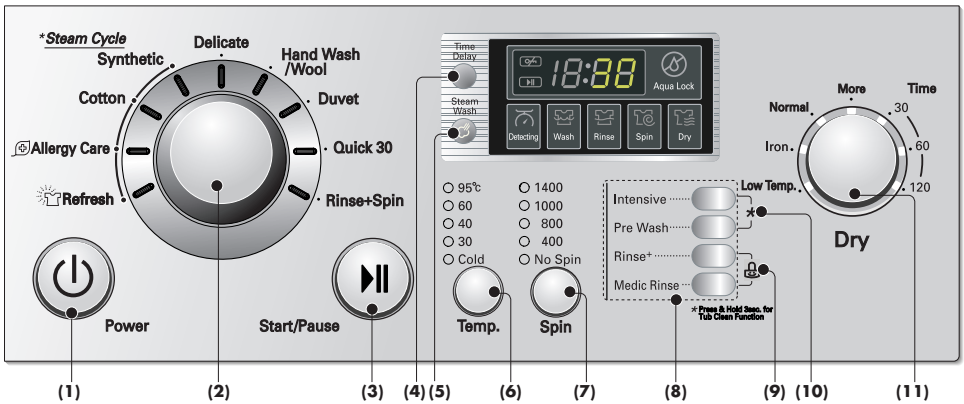
2. Manual Selecting

- Press the **Power** button to start.
- Select the conditions which you want to use, by pressing each button.

For selecting the each conditions, please refer to the page16~page24

- Press the **Start/Pause** button.

How to use washer



(1) Button : Power
(2) Dial : Program
(3) Button : Start/Pause
(4) Button : Time Delay
(5) Button : Steam Wash
(6) Button : Temperature
(7) Button : Spin
(8) Option
(9) Child Lock
(10) Tub Clean
(11) Dial : Dry

Power



1. Power

- Press the **Power** button to turn power on and off.
- To cancel the **Time Delay** function, the **Power** button should be pressed.

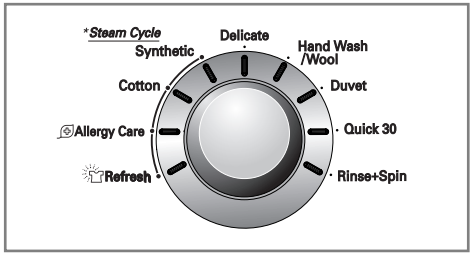
2. Initial Program

- When the **Power** button is pressed, the washer is ready for Cotton program. And the other initial conditions as follows.
- So, if you want to advance into the washing cycle without changing the program, just press **Start/Pause** button and then the washer will proceed.

■ *Initial program*

- Cotton Program / Main Wash / Normal Rinse / 1400 rpm / 60˚C

Program



- 9 programs are available according to the laundry type.
- Lamp will light up to indicate selected program.
- When **Start/Pause** button is pressed, the Cotton program is automatically selected.

- By turning the Program dial, the program is selected in order of " Cotton – Synthetic – Delicate – Hand Wash/Wool – Duvet – Quick 30 – Rinse+Spin – Refresh – Allergy Care".

Regarding to the laundry type for each program Please refer to the page14.

How to use washer

Start/Pause



1. Start

- This **Start/Pause** button is used to start wash cycle or pause the wash cycle.

2. Pause

- If temporary stop of wash cycle is needed, press "**Start/Pause**" button.
- When in Pause, the power is turned off automatically after 4 minutes.
- **NB.** The door will not open before 1 to 2 minutes when Pause is selected, or at the end of the wash cycle.

Detecting



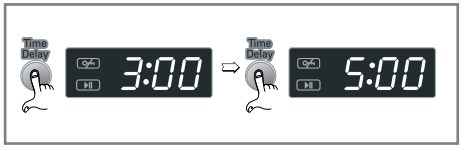
- While the "Detecting" is shown in the display the machine rotates slowly and detects how many laundries are loaded in the drum. It will take a few seconds.
- Available in Cotton, Synthetic and Allergy Care program.

Door Lock



- Lights whenever the door of the washer is locked.
- The door can be unlocked by pressing the Start/Pause button to stop the washer.
- The door can be opened after a short delay.

Time Delay



Preparing washing before starting "Time Delay"

- Turn on the water tap.
- Load laundry and close the door.
- Place the detergent and fabric softener in the drawer.

- How to set "Time Delay"
  - Press **Power** button.
  - Turn the **Program** dial to select the program you require.
  - Press **Time Delay** button and set the desired time.
  - Press the **Start/Pause** button.

- If **Time Delay** button is pressed, "3:00" is displayed. The maximum delayed time is 19:00 hours and the minimum time is 3:00 hours.
- Each pressing of the button advances time delay by one hour.
- To cancel the time delay, press the **Power** button.
- **Time Delay** is 'expected time' from the present to the completion of washing cycle or selected process (Wash, Rinse, Spin).

According to the condition of water supply and temperature, the delayed time and the actual washing time may vary.

How to use washer

Steam Wash



By pressing the Steam Wash button, Steam Function Can be selected.
When Steam Function is selected, Steam wash ( ) LED lights on.

Steam Wash is
- For normally soiled full load.
- For tough stained clothes, underway, or baby Clothes.
- Steam Wash is available with Cotton, Synthetic, Allergy Care program.
  Refresh cycle is fixed Steam wash.

Program	Temperature
Cotton	60°c (30°c, 40°c, 95°c)
Synthetic	40°c (30°c, 60°c)
Allergy Care	95°c (40°c, 60°c)

- This option features upgraded washing performance with low energy.
- Do not load delicates such as wool, silk, and easily discolored clothes.

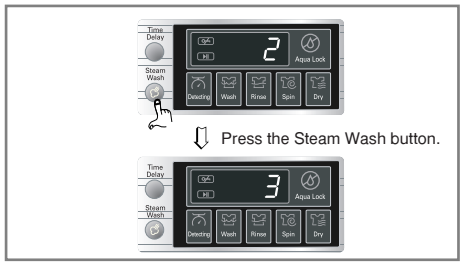
NOTE:
- Steam wash is a highly concentrated and efficient.
  It may seem there is no water inside the drum(normal condition).
- During the steam cycle the strong steam spray may not be seen through the door (normal condition).
- During the steam operation, a spraying sound will be heard. (normal condition)
- Do not try to open the door while operating. Steam can cause severe burns.

⚠CAUTION:
- Do not reach into the washer while operating. Steam can cause severe burns.

Refresh

■ Refresh cycle
- For slightly wrinkled clothes which have been stored for an extended time.
  It just makes wrinkled clothes easy to iron (Do not load wet clothes).
- Wrinkles will be reduced.

■ How to use Refresh cycle
1. Turn on the washer and select the Refresh program.
2. Load 3 items or less and close the door.
3. Press the Steam Wash button repeatedly until the desired and correct number of items is displayed. Initial display is 2 items.



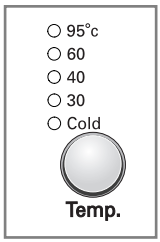
4. Press the Start/Pause button.

[Precautionary Notes]
- The Refresh cycle is not like other washing or drying cycles.
- Due to the characteristic of cotton fibers, this cycle is not recommended for 100% cotton clothing.
- Remove stains from clothing before using the Refresh cycle to prevent permanently setting the stains by high heat.
- Be sure that the faucet is open. This cycle uses a little water to produce steam.
- Be careful not to touch the door. It can be very hot.
- Do not open the door while operating. Steam can cause severe burns.
- After removing clothes from the Refresh cycle they may feel slightly damp wait at least 10 minutes before putting the clothes on.
- Best result are achieved when articles are of similar size and fabric type. Do not overload (Load less than 3 dress shirtes)

⚠CAUTION:
- Do not reach into the washer while operating. Steam can cause severe burns.
- Keep pets away from the washer.

How to use washer

Water Temp.



• By pressing the Temp. button, the water temperature can be selected.

- Cold

- 30˚C / 40˚C / 60˚C / 95˚C

• Water temperature can be selected as below according to the program.

- Allergy Care
40˚C – 60˚C – 95°C

- Cotton
Cold – 30˚C – 40˚C – 60˚C – 95˚C

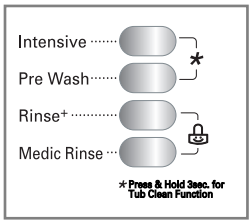
- Synthetic
Cold – 30˚C – 40˚C – 60˚C

- Delicate & Quick 30 & Hand Wash/Wool & Duvet
Cold – 30˚C – 40˚C

The required temperature lamp will light up for identification.

For the more detailed information, please refer to the page14.

Option



By pressing each the button, each function will be selected.

1. Intensive

• When washing full load or heavily soiled laundry, you can increase effectiveness by choosing intensive option.
• By selecting the Intensive option, the wash time may be extended, depending on the program selected.
• To use this option, press the intensive button once before the wash program is started.

2. Pre Wash

• Use this option for load that need pretreatment. Add 16 minutes pre wash and drain.
  - When using Pre Wash option, do not use liquid detergent in the main wash comportment. Use powder for the main wash.
• Available in Cotton, Synthetic and Allergy Care program.

3. Rinse+

• Used to additional rinse, which may assist in removing traces of detergent residue.
• By selecting Rinse+ function, the Rinse Time and the Rinse water are increased.

4. Medic Rinse

• For high effectiveness or more purity in rinse operation you can choose Medic Rinse option.
• Available in Cotton, Synthetic, Allergy Care and Rinse+Spin program.
• Medic Rinse is default in Allergy Care program.

The required temperature lamp will light up for identification.

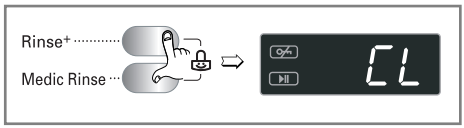
How to use washer

Child lock



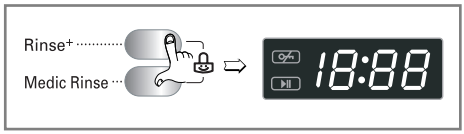
If you choose to lock the buttons on the control assembly to prevent tampering, this function may be selected.

- Child lock can be set by pressing and holding the **Rinse+** and **Medic Rinse** button simultaneously.
  (About three seconds)



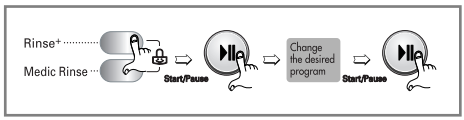
- *When child lock is set, all buttons are inoperable, except Power button*

- To deactivate Child lock system, press and hold the **Rinse+** and **Medic Rinse** button simultaneously again.
  (About three seconds)



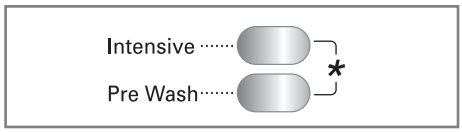
- To change to the desired program, whilst in child lock mode.

1. Press and hold both **Rinse+** and **Medic Rinse** button together once again.
(About three seconds)
2. Press the **Start/Pause** button.
3. Select the desired program and press the **Start/Pause** button again.



- The child lock can be set at any time and it is automatically canceled when operational errors occur. Also *Child lock* works when power is off.

Tub Clean



Tub Clean course can be set by pressing and holding Intensive and Pre Wash button simultaneously.
When Tub Clean course is set, display " tCL ", and all buttons are inoperable.



TUB CLEAN is special cycle to clean the inside of the washer. This cycle uses higher water level with higher spin speed. Perform this cycle regularly.

How to use the Tub Clean cycle:

1. Remove any clothing or items from the washer and close the door.
2. Open the dispenser drawer and add Anti limescale (Calgon) to the Main wash compartment.

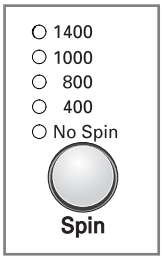
NOTE: Do not add any detergent to the detergent compartments. Excessive suds may generate and leak from the washer.

3. Close the dispenser drawer slowly.
4. Power On and then press and hold Intensive and Pre Wash button for 3 seconds. then " tCL " is displayed in LED.
5. Press the Start/Pause button to start.
6. After the cycle is complete, leave the door open to dry around the washer door opening, flexible gasket and door glass.

⚠ **CAUTION:** If there is a small child, be careful not to leave the door open for too long.

How to use washer

Spin



• By pressing the Spin button, the spin speed can be chosen.

1. Spin selection

• Spin speed is available according to the program as follows.

- Cotton & Quick 30 & Rinse+Spin
No Spin – 400 – 800 – 1000 – 1400

- Synthetic & Hand Wash/Wool & Duvet & Allergy Care
No Spin – 400 – 800 – 1000

- Delicate
No Spin – 400 – 800

2. No spin

• If “No Spin” is selected, the washer stops after draining water.

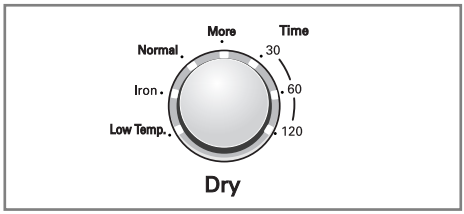
3. Spin Only

1. Press the Power button.
2. Set the desired spin speed by turnning spin dial.
3. Press the Start/Pause button.

The required lamp will light up for identification.

How to use washer

Dry



- This washer-dryer's automatical process from washing to drying can be selected easily.
- For most even drying, make sure all articles in the clothes load are similar in material and thickness.
- Do not overload dryer by stuffing too many articles into drum. Items must be able to tumble freely.
- If you open door and remove load before dryer has finished its cycle, remember to press the Start/Pause button.
- "When drying and cooling cycle is completed, End will be on the Multi display. End means that both drying and cooling cyles are completed".

1. Drying Automatic guide

- Use your Automatic Cycles to dry most loads. Electronic sensors measure the temperature of the exhaust to increase or decrease drying temperatures for faster reaction time and tigher temperature control.
- If a load is not as dry as you like, complete drying using a time cycle.

NOTE The Estimated drying time varies from the actual drying time with an Automatic. The type of fabric, size of the load, and the dryness selected affect drying time.

✻ The standard laundry weight which shows how much laundry to put into the washer.

2. Drying Time Guide (Manual operation)

- By turnning the Dry dial, the drying time can be selected.
- Drying course can last up to 150min. When selecting drying only, drying course will start after 15min spining.
- These drying times are given as a guide to help you set your dryer for manual drying. Drying times can vary greatly depending on dampness, room temperature and type of fabric and your own experience will be your best guide.
- Low Temp. : For Synthetics select
- Iron : If you want to iron clothes
- Normal : For Cottons select
- More : For washable nappies select
- Time (30/60/120 minutes)
  - 30 min : Cotton 1.5kg
  - 60 min : Cotton 3kg
  - 120 min : Towel 4kg

How to use washer

Dry

- Your dryer can handle a load of up to 4kg dry weight of articles.
- When loading, shake out each handful of clothes so that they can tumble freely.

Items should not be loaded in a tangled condition, as this will lengthen the drying time.

Woolen Articles

- Do not tumble dry woolen articles. Pull them to their original shape, they ary them flat.

Woven and Loopknit Materials

- Some woven and loopknit materials may shrink, by varying amounts, depending on their quality.
- Always stretch them out immediately after drying.

Permanent Press and Synthetics

- Do not overload your dryer.
- Take out permanent press articles as soon as the dryer stops to reduce wrinkles.

Fibre or Leather Materials

- Always check the manufacture's instructions.

Baby Clothes and Night Gowns

- Always check the manufacture's instructions.

Rubber and Plastics

- Do not dry any items made from or containing rubber or plastics, such as:
  a) aprons, bibs, chair covers
  b) curtains and tablecloths

Fiberglass

- Do not dry fiberglass articles in your dryer.

Glass particles left in the dryer could be picked up by your clothes the next time you use the dryer and irritate your skin.

- "Cooling Down" is to prevent wrinkles from forming caused by not removing the laundry from the tub after cycle is done. So you can unload the laudnry at any moment after "End" displays.
- "Cooling Down" periodically tumbles and fluffs the load up to 4 hours without heating.

How to use washer

Display



1. Special function display

- When Child lock is selected, the " CL " lamp is on.
- When time delay is selected, it shows the remaining times to finish the selected program.

2. Self diagnose display

- If the washer encounters a fault during operation, the associated fault will be displayed.

" PE " : Water pressure sensing error

" FE " : Problem of overfilling water

" dE " : Door is not closed

" LE " : Over load in motor

" IE " : Water inlet trouble

" OE " : Drainage trouble

" UE " : Unbalanced load

" tE " : Water temperature trouble

" AE " : Water leaks

" dHE " : Dry heater or thermostat trouble.

If these error letters are displayed, please refer to the troubleshooting page29 and follow the guide.

3. Completion of washing

- When washing cycle is completed, " End " is displayed on the "***Multi display***".

4. Time left

- During washing cycle, the remaining washing time is displayed.
- Recommended program by manufacturer.
  - **Cotton** : around 1 hour and 48 minutes
  - **Synthetic** : around 1 hour and 21 minutes
  - **Allergy Care** : around 2 hours and 34 minutes
  - **Delicate** : around 1 hour and 10 minutes
  - **Hand Wash/Wool :** around 55 minutes
  - **Quick 30 :** around 30 minutes
  - **Duvet :** around 1 hour and 10 minutes
  - **Rinse + Spin :** around 23 minutes
  - **Refresh :** around 25 minutes
- The washing time may vary by the amount of laundry, water pressure, water temperature and other washing conditions.
- If an unbalanced load is detected or if the suds removing program operates, the wash time may be extended. (Max. increasing time is 45 minutes.)

Est. Time Remaining

- This display shows the estimated time remaining in the cycle when operating.
- This washer automatically detects the wash load (weight) and optimizes the washing time. After detecting, the display will show the adjusted time remaining.

Status Indicator

- It shows elapsed time of the cycle the washer is operating.

Maintenance

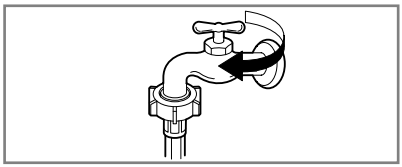
✳ Before cleaning the washer interior, unplug the electrical power cord to avoid electrical shock to avoid electrical shock hazards.

✳ When disposing of the appliance, cut off the mains cable, and destroy the plug Disable the door lock to prevent young children being trapped inside.

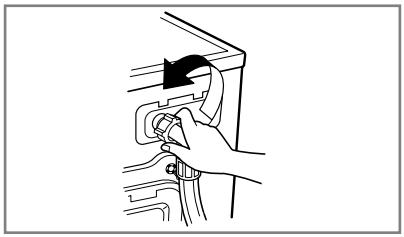
■ The water inlet filter

- "1E " error message will blink on the control panel when water does not enter the detergent drawer.

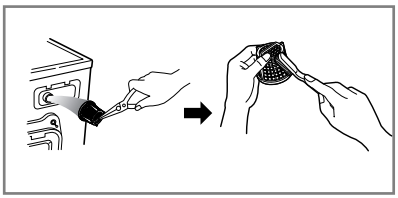
- If water is very hard or contains traces of lime deposit, the water inlet filter may become clogged.
It is therefore a good idea to clean it from time to time.



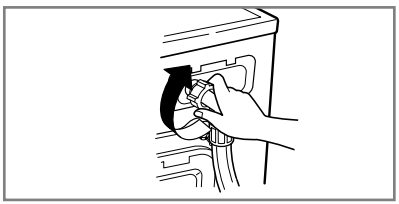
1. Turn off the water tap.



2. Unscrew the water inlet hose.



3. Clean the filter using a hard bristle brush.



4. Tighten up the inlet hose.

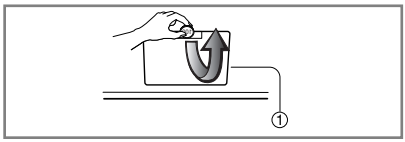
Maintenance

■ The drain pump filter

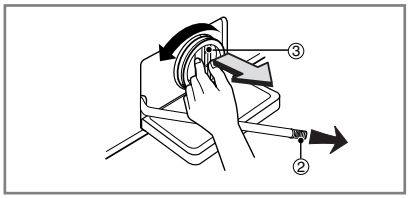
✻ The drain filter collects threads and small objects left in the laundry.
Check regularly that the filter is clean to ensure smooth running of your machine.

⚠ **CAUTION** First drain using the drain hose and then open the pump filter to remove whatever any threads or objects.
Be careful when draining if the water is hot.

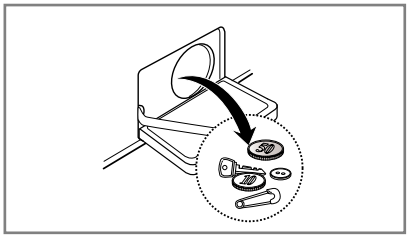
✻ Allow the water to cool down before cleaning the drain pump, carrying out emergency emptying or opening the door in an emergency.



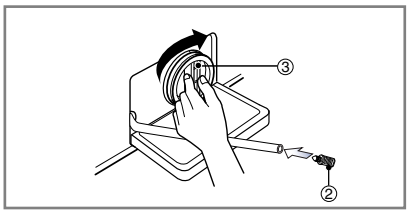
1. Open the lower cover cap (①) by using a coin.
Drain plug (②) to pull out the hose.



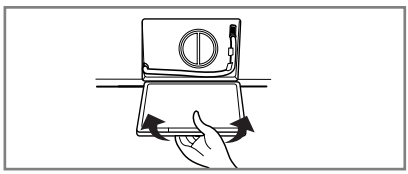
2. Unplug the drain plug (②), allowing the water to flow out. At this time use a vessel to prevent water flowing on to the floor. When water does not flow any more, turn the pump filter (③) open to the left.



3. Remove out any foreign material from the pump filter (③).



4. After cleaning, turn the pump filter (③) clockwise and insert the drain plug (②)to the original place. close the lower cover cap.

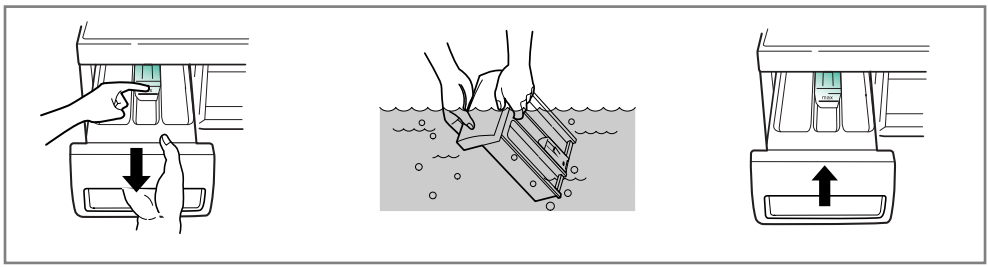


Maintenance

■ Dispenser drawer

✻ After a while detergents and fabric softeners leave a deposit in the drawer.

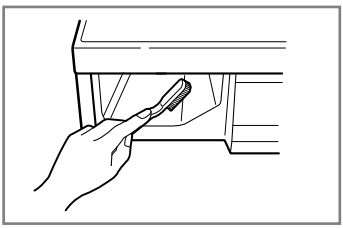
- It should be cleaned from time to time with a jet of running water.
- If necessary it can be removed completely from the machine by pressing the catch downward and by pulling it out.
- To facilitate cleaning, the upper part of the fabric softener compartment can be removed.



■ The drawer recess

✻ Detergent can also accumulate inside the recess which should be cleaned occasionally with an old toothbrush.

- Once you have finished cleaning, replace the drawer and run a rinse cycle without laundry.



■ The washing drum

- If you live in a hard water area, limescale may continuously build up in places where it cannot be seen and thus not easily removed.
  Over time the build up of scale clogs appliances, and if it is not kept in check these may have to be replaced.
- Although the washing drum is made of Stainless steel, specks of rust can be caused by small metal articles (paper clips, safety pins) which have been left in the drum.
- The washing drum should be cleaned from time to time.
- If you use descaling agents, dyes or bleaches, make sure they are suitable for washing machine use.

✻ Descaler may contain chemicals that may damage part of your washing machine.

✻ Remove any spots with a stainless steel cleaning agent.

✻ Never use steel wool.

Maintenance

■ The water circulation nozzle & Steam nozzle

• Clean the water circulation nozzle and Steam nozzle, if clogged.

■ Cleaning your washer

1. Exterior

Proper care of your washer can extend its life.

The outside of the machine can be cleaned with warm water and a neutral non abrasive household detergent.

Immediately wipe off any spills. Wipe with damp cloth.

Try not to hit surface with sharp objects.

✻ IMPORTANT: Do not use methylated spirits, diluents or similar products.

2. Interior

Dry around the washer door opening, flexible gasket and door glass.
Run washer through a complete cycle using hot water.
Repeat process if necessary.

NOTE Remove hard water deposits using only cleaners labeled as safe for washing machine.

■ Winterizing instructions

If the washer is stored in an area where freezing may occur or moved in freezing temperatures, follow these instructions to prevent damage to the washer:

1. Turn off water supply tap.

2. Disconnect hoses from water supply and drain water from hoses.

3. Plug electrical cord into a properly grounded electrical outlet.

4. Add 1gallon(3.8L) of nontoxic recreational vehicle(RV) antifreeze into an empty wash drum. Close the door.

5. Set spin cycle and let washer spin for 1minute to drain out all water.
Not all of the RV antifreeze will be expelled.

6. Unplug electrical power cord, dry the drum interior, and close the door.

7. Remove dispenser drawer, drain and dry excessive water from the compartments.

8. Store washer in an upright position.

9. To remove antifreeze from washer after storage, run empty washer through a complete cycle using detergent. Do not add wash load.

Troubleshooting guide

✳ This washing machine is equipped with automatic safety functions which detect and diagnose faults at an early stage and react appropriately.
When the machine does not function properly or does not function at all, check the following points before you contact your service provider.

Symptom	Possible Cause	Solution
Rattling and clanking noise	• Foreign objects such as coins or safety pins maybe in drum or pump.	Stop washer and check drum and drain filter. If noise continues after washer is restarted, call your authorized service centre.
Thumping sound	• Heavy wash loads may produce a thumping sound. This is usually normal.	If sound continues, washer is probably out of balance. Stop and redistribute wash load.
Vibrating noise	• Have all the transit bolts and packing been removed? • Are all the feet resting firmly on the ground?	If not removed during installation, refer to Installation guide for removing transit bolts. Wash load may be unevenly distributed in drum. Stop washer and rearrange wash load.
Water leaks.	• Fill hoses or drain hose are loose at tap or washer. • House drain pipes are clogged.	Check and tighten hose connections. Unclog drain pipe. Contact plumber if necessary.
Oversudsing		Too much detergent or unsuitable detergent may cause excessive foaming which may result in water leaks.
Water does not enter washer or it enters slowly	• Water supply is not adequate in area. • Water supply tap is not completely open. • Water inlet hose(s) are kinked. • The filter of the inlet hose(s) are clogged.	Check another tap in the house. Fully open tap. Straighten hose(s). Check the filter of the inlet hose(s).
Water in the washer does not drain or drains slowly.	• Drain hose is kinked or clogged. • The drain filter is clogged.	Clean and straighten the drain hose. Clean the drain filter.

Troubleshooting guide

Symptom	Possible Cause	Solution
Washer does not start	• Electrical power cord may not be plugged in or connection may be loose. • House fuse blown, circuit breaker tripped, or a power outage has occurred. • Water supply tap is not turned on.	Make sure plug fits tightly in wall outlet. Reset circuit breaker or replace fuse. Do not increase fuse capacity. If problem is a circuit overload, have it corrected by a qualified electrician. Turn on water supply tap.
Washer won't spin	✻ Check that the door is firmly shut.	Close the door and press the Start/Pause button. After pressing the Start/Pause button, it may take a few moments before the washer begins to spin. The door must lock before spin can be achieved.
Door does not open		Once started, the door can not be opened for safety reasons. Wait one or two minutes before opening the door to give the electric locking mechanism time to release.
Wash cycle time delayed		The washing time may vary by the amount of laundry, water pressure, water temperature and other using conditions. If the imbalance is detected or if the suds removing program works, the wash time shall be increased.
Dry problem	• Does not dry	Do not overload. Check that the washer is draining properly to extract adequate water from th load. Clothes load is too small to tumble properly. Add a few towels.

Troubleshooting guide

Symptom	Possible Cause	Solution
iE	• Water supply is not adequate in area • Water supply taps are not completely open. • Water inlet hose(s) are kinked. • The filter of the inlet hose(s) are clogged.	Check another tap in the house. Fully open tap. Straighten hose(s). Check the filter of the inlet hose(s).
OE	• Drain hose is kinked or clogged. • The drain filter is clogged.	Clean and straighten the drain hose. Clean the drain filter. For more detailed information, please refer to “The drain pump filter” on page26
UE	• Load is too small. • Load is out of balance. • The appliance has an unbalance detection and correction system. If individual heavy articles are loaded (ex. bath mat, both robe, etc.), this system may stop spinning or even interrupt the spin cycle altogether. • If the laundry is still too wet at the end of the cycle, add smaller articles of laundry to balance the load and repeat the spin cycle.	Add 1 or 2 similar items to help balance the load. Rearrange load to allow proper spinning
dE	 • Is the door opened or not completely closed?	Close the door completely. ✻ If “dE” is not released, call for service.
tE		Unplug the power plug and call for service.
FE	• Water overfills due to the faulty water valve.	Close the water tap. Unplug the power plug. Call for service.
PE	• Water level sensor has malfunctioned.	
LE	• Over load in motor.	
AE	• Water leaks	Call for service.
dHE	• Check water supply.	Turn the tap on. ✻ If “dHE” is not released, unplug power plug and call for service.

Terms of Warranty

What Is Not Covered:

- Service trips to your home to teach you how to use the product.
- If the product is connected to any voltage other than that shown on the rating plate.
- If the fault is caused by accident, neglect, misuse or Act of God.
- If the fault is caused by factors other than normal domestic use or use in accordance with the owner's manual.
- Provide instruction on use of product or change the set-up of the product.
- If the fault is caused by pests for example, rats or cockroaches etc..
- Noise or vibration that is considered normal for example water drain sound, spin sound, or warming beeps.
- Correcting the installation for example, levelling the product, adjustment of drain.
- Normal maintenance which recommended by the owner's manual.
- Removal of foreign objects / substances from the machine, including the pump and inlet hose filter for example, grit, nails, bra wires, buttons etc.
- Replace fuses in or correct house wiring or correct house plumbing.
- Correction of unauthorized repairs.
- Incidental or consequential damage to personal property caused by possible defects with this appliance.
- If this product is used for commercial purpose, it is not warranted.

(Example : Public places such as public bathroom, lodging house, training center, dormitory)

If the product is installed outside the normal service area, any cost of transportation involved in the repair of the product, or the replacement of a defective part, shall be borne by the owner.

Memo

Memo