LG
Life's Good

ENGLISH

OWNER'S MANUAL

WASHING MACHINE

Please read this manual carefully before operating washing machine and retain it for future reference

T65SJ*	T65SN*	T65SP*	T7288*
T70SJ*	T70SN*	T70SP*	
T75SJ*	T80SN*	T75SP*	
T80SJ*		T80SP*	
T90SJ*			
T10SJ*			

MFL68486520
Rev.02_150721

www.lg.com

Copyright © 2020-2021 LG Electronics Inc. All Rights Reserved.

Contents

READ THIS MANUAL

Inside you will find many helpful hints on how to use and maintain your washer properly. Just a little preventive care on your part can save you a great deal of time and money over the life of your washer. You will find many answers to common problems in the Troubleshooting section. If you review our chart of Troubleshooting Tips first, you may not need to call for service at all.

		Page No
Introduction	Safety Information	3
	Product Feature	6
	Identification of Parts	7
Installation	Placing, Leveling & Installation	8
	Connecting water supply Hose & Drain Hose	9
Before Starting to Wash	Preparation Before Washing	11
	Use of Water, Detergent, Bleach and Softener	12
	Special Guide for Stain Removal	15
	Control Panel	16
Washing Programs*	Other Useful Functions	17
	Normal	18
	Quick Wash	18
	Gentle (Wool/Saree)	19
	Turbo Wash	19
	Strong (Jeans)	19
	Tub Clean	19
	Aqua Reserve Wash	19
	Pre Wash+ Normal Wash	20
	Favourite Wash	20
	AIR DRY	20
Additional Function Program*	ENERGY SAVING GUIDE	21
	Smart Closing Door	22
	Soak Wash	22
	Option Washing	23
	DELAY START (RESERVATION) Wash	24
Care and Maintenance	Cleaning and Maintenance	25
	Common Washing Problems	27
Troubleshooting	Troubleshooting	28
	Earthing	29
	Smart Diagnosis™	29
	Disposal of old appliance	31
Installation Check sheet	Installation Check sheet	32
Terms of Warranty	Warranty	33
Features & Specifications	Features & Specifications	35

* Product feature may vary according to different models. Refer page 35 for modelwise features for your purchased model.

Safety Information

Read carefully and thoroughly go through this booklet as it contains important safety information that will protect the user from unexpected dangers and prevent potential damages to the product.

This booklet is divided into 2 parts : Warning and Caution.

: This is a warning sign specifying user's applications which might be dangerous.

: This is a sign specifying 'Strictly Forbidden' applications.

WARNING : Failure to comply with the instructions under this sign may result in major physical injuries or death.

CAUTION : Failure to comply with the instructions under this sign may result in minor physical injuries or damages to the product.

Disclaimer : The user should follow the instructions as per the owner's manual to avoid any malfunctioning of the product, accident or damage.

The manufacturer is not liable for any accident or consequential or resulting liability, damage or loss to property or life arising directly or indirectly from the product. The manufacturer's liability is limited only to the extent of repair or replacement of the product as per the terms and condition mentioned elsewhere in the document.

PROPER INSTALLATION	**WARNING** • **Make sure the plug is completely pushed into the outlet.** Failure to do so may cause electric shock and fire due to overheating.
	CAUTION • **Machine must be positioned so that the plug is accessible.** If the plug is placed between the wall and the machine, it may get damaged, possibly causing fire or electric shock. • **Washer shall be placed in dry areas specifically during rainy season.** Humid conditions may cause rusting which may result in product failure. • **The base opening must not be obstructed by carpeting when the washing machine is installed on a carpeted floor.** • **Install or store where it will not be exposed to temperature below freezing or exposed to the weather (Rain/Water Splash/ Direct Sunlight).** If the product is exposed to such conditions, electric shock, fire, break down or deformation may occur.

Safety Information

YOUR LAUNDRY AREA

WARNING

- **Keep the area underneath and around your appliances free of combustible materials such as lint, paper, rags, chemical, etc.**

  Operating with such materials around the machine may trigger explosion or fire.

- **Close supervision is necessary if this appliance is used by or near children. Do not allow children to play on, with, or inside this or any other appliance.**

  There is potential danger that children might drown in the tub.

Do not touch the Power Plug with a wet hand.
It will cause electric shock

CAUTION

Do not put your hand, foot or anything under the washing machine while the washing machine is in operation.

There is a rotating mechanism under the machine, so you could be injured.

- **Do not put or keep any magnet near Lid of Washer, it will result in Malfunctioning of the Product.**

Avoid electric heater, candle light, cigarette light, bug smoker, etc. near the machine.
It may ignite or deform the plastic part.

WHEN USING THE WASHER

WARNING

- 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 operate or play with the appliance. Inconstancy to this may damage machine, serious injury and electrical shock.

Do not use power plug, power socket outlet and wiring equipment for more than their rated capacity.
Exceeding the limit may lead to electric shock, fire , break down, and/or deformation of parts.

Do not mix chlorine bleach with other household chemicals such as toilet cleaners, rust removers, acids (such as vinegar) or product containing ammonia for laundry or Tub Wash.
Mixing different chemicals can produce toxic gases which may cause death.

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, dry-cleaning solvents, kerosene, etc). Do not add these substances to the wash water.
Do not use or place these substances around your washer or dryer during operation.
It may ignite or explode.

Do not use bucket to fill water in the machine.
It may lead to electric shock, electronic part failure.

Safety Information

WHEN USING THE WASHER

WARNING

- **Disconnect the Washer from the household distribution panel by removing the Power Plug from Power Socket outlet before attempting any maintenance or cleaning**
  Inconstancy to this may Cause electrical shock
- **Make sure that drainage is working properly.**
  If water is not drained properly, your floor may get flooded.
  Flooded floors may induce electricity leakage, further resulting in electric shock or fire.
- **If, during spinning, opening the lid does not stop the tub within about 15 second, immediately discontinue operating the machine.**
  Call for repair. A machine that spins with its door open may cause injuries.

Never reach into the machine while it is running.
Wait until the machine has completely stopped before opening the lid.
Even slow rotation can cause injury.

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.
Operating with a damaged plug may cause electric shock.

CAUTION

- **Do not use washer for any other purpose other than its intended purpose.**
  - Use this appliance only for household purpose.
- **Do not use water hotter than 60°C.**
- **Do not connect washer to hot water supply.**

Use of excessively hot water may cause damage to fabrics or cause leakage of water.

Ensure No water logging near or below washer to prevent rusting.
Rusting on certain parts may result in product failure

WHEN NOT IN USE

WARNING

- When the air temperature is high and the water temperature is low, condensation may occur and thus wet the floor.Customer may Slip too.
- **Wipe off dirt or dust on the contacts of the power plug.**
  Using unclean power socket plug may cause fire.

Do not attempt to repair or replace any part of this appliance unless specifically recommended in this Owner's Manual, or in published user-repair instructions that you understand and have the skills to carry out.
Operating the machine with improperly replaced parts may be a cause for fire or electric shock.

Do not tamper with controls.
It may lead to electric shock, fire , break down, deformation.

Do not yank the power cord in an attempt to disconnect the power plug. Securely hold the power plug to unplug the machine.
Failure to observe these instructions may cause electric shock or fire due to short-circuit .

Do not use wet cloth to clean the machine, Always use dry cotton cloth.
It will cause short circuit and electric shock.

- Turn off the water faucets to relieve pressure on hoses; they may need Replacement after 5 Years Inconstancy to this may rupture hose which leads to water Leakage.

Product Features*

Washer doesn't operate while the lid is opened. If the lid is opened during the wash, rinse or spin cycles, the operation stops for safety.

Pre Wash+ Normal

- The purpose of this program is to deliver best Wash Performance by adding extra 8 min of uniquely designed washing pattern before the main wash cycle.

Jet Spray+#*

- A technology uniquely designed to spray inlet water with greater force to penetrate deep into the clothes to bring out the best washing and rinsing performance.

Smart Closing Door

- Smart hinge prevents sudden closing of the door. Gives you a soft and safe door closing.

Turbowash*

- Turbowash program delivers high wash performance in least cycle time using revolutionary Jetspray+ technology which optimizes water & energy consumption.

Normal logic control

- A built-in load sensor automatically detects the laundry load and a microprocessor optimizes washing conditions such as ideal WATER LEVEL and washing time.

- Advanced technology is built into the Electronic Control System which ensures the best washing result.

TurboDrum washing

- When "Punch + 3" washing wings turn, the washing tub turns in the opposite direction. This makes the both sides current of water which improve wash-performance by rubbing clothes strongly.

3 Step washing

- 3 step washing makes the best washing performance with low tangling.

Rubbing ▶ *Rubbing and Shaking* ▶ *Shaking and Disentangling*

Smart Diagnosis™

- It is the technology to transmit the anomalies to the service center when there is a problem with the washer. It provides the service that gives faith and trust to the customers through precise and fast analysis.

Auto Restart

- Auto Restart allows the program to restart all by itself in case of power failure. It resumes from stage where it stopped, however, the wash cycle time may vary.

 # Works during Wash cycle in Normal, Pre Wash+ Normal, Turbo Wash & Aqua Reserve from WL1 to 7 and during Rinse cycle in Normal, Pre Wash+ Normal, Turbo Wash & Aqua Reserve Programs at all water levels.
Jet Spray performance may vary with Inlet water pressure, for optimum results pressure should be > 0.9 Bar

** Product feature may vary according to different models. Refer page 35 for modelwise features for your purchased model.*

dentification of Parts

Body

Smart Hinge

POWDER DETERGENT BOX( )

MAGIC FILTER
Clean regularly to stop linting on the clothes load.

SOFTENER INLET ( )

BLEACH DISPENSER( )

FUNCTION SELECTOR

TUB

START/PAUSE BUTTON
Use to start or stop the washing machine temporarily.

ADJUSTABLE LEGS
Use to level the washing machine for correct balance & spin operation.

WATER SUPPLY HOSE
Make sure the water does not leak.

POWER PLUG
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.

*** JET SPRAY NOZZLE**
Depending upon the Inlet Water Pressure, performance of Jet Spray may vary. (Works in Normal, Turbo Wash, Pre Wash+ Normal & Aqua Reserve Wash Programs).

*** CASTORS**
Use for easy translocation (at rear bottom edge)

DRAIN HOSE
Keep the drain hose flipped down while washing is in progress.

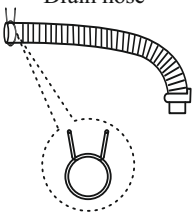
*** BASE**

Accessories

Water supply hose

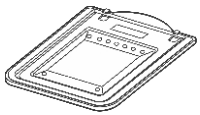
For Cold Water

Drain hose



Snap Ring

Anti-rat cover



NOTE

" * " Parts can be different as per purchased model.

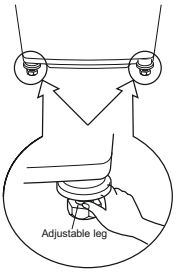
- Please do not match this figure with model as it may be different from your model .These are schematic diagrams only.
- Due to continuous improvements at LG, specification of washing machine are subject to change without prior notice.

Placing, Leveling and Installation

Please ensure that transit restraint has been removed before operating your machine.
Improper installation of the washer may cause noise and malfunctioning.

Note :
1. The ventilating openings in the base area must not be obstructed by carpeting when the washing machine is installed on a carpeted floor.
2. Install the washing machine on a level and firm surface.
3. Handle all packaging materials (such as plastic bags and thermacol) to keep away from children. The packaging materials can cause suffocation.

How to adjust leveling

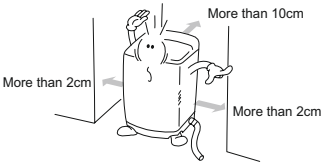


Turn the adjustable legs to set the washer horizontal (Both the front legs).

Don't add anything under back side legs.

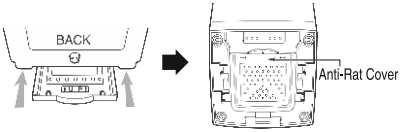
Distance between drain hose and the wall

Distance between drain hose and the wall should be more than 10cm, and the distance between the other part or the rear part and the wall should be more than 2 cm.



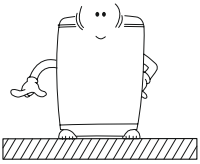
Anti-rat cover installation

Insert the Anti rat cover firmly from back side side of washing machine.



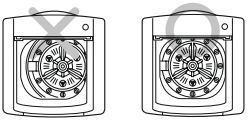
1 Installation area

Install the washer on flat and firm surface.



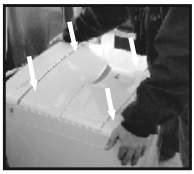
2 Checking level

The Basement is not flat, fill the water just touching the Pulsator and see uniform distribution. If not, adjust the legs as shown in the figure.



Top View

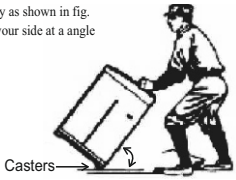
3 Checking Proper placement



Press the corners of the machine diagonally as shown in the figure, If any movement is observed, adjust the legs for proper leveling.

Moving of the Machine

Casters are provided for easy translocation of your machine
* Grip the machines properly as shown in fig.
* Tilt the machine towards your side at a angle 45 °~ 55 °.



Note : * Be careful that you should not drop the machine.
* Never move the machine on casters when there is load inside.

Caution

Be sure to remove the product from the carton base, otherwise the machine will not be able to operate properly.

Product feature may vary according to different models. Refer page 35 for model wise features for your purchased model. Please do not match the figures with model as it may be different from your model. These are schematic diagrams only.

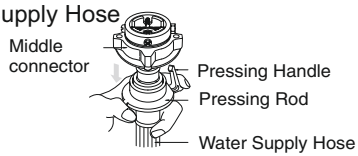
Connecting Water Supply Hose & Drain Hose

Water Supply Hose

Normal Type (Normal tap without thread & one touch type inlet hose.)

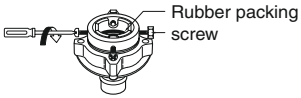
1 Separate Middle connector from Water Supply Hose

Separate Middle connector from the Water Supply Hose by pulling the Pressing Rod and the Pressing Handle that is attached to the Water Supply Hose.



2 Loosen the fixed nuts to connect the connector to the tap

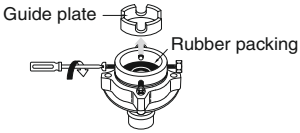
Untighten the screw of the connector so that the tap can be placed in the middle.



NOTE

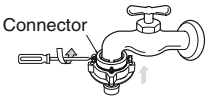
In case tap is too large.

If the tap diameter is too large or is square, untighten the 4 screws and remove the guide plate. Then follow step1.



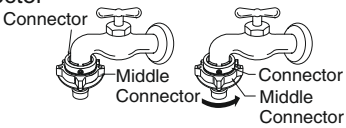
3 Fixing Connectors to the Tap

Push the upper connector up till the rubber packing is in tight contact with the tap. Then tighten the 4 screws



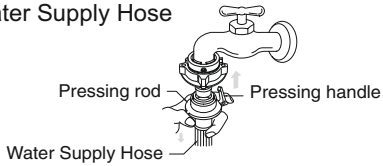
4 Fixing Upper Connector and Middle Connector

Remove the fixed sticker in between the Upper and Middle Connectors. Tighten the connectors by holding one connector and twist middle connector to the right.



5 Connecting Middle Connector and Water Supply Hose

Press down the pressing rod of the Water Supply Hose which was separated from middle connector (refer to Step1) and then join it to the middle connector.



6 Check for water leakage

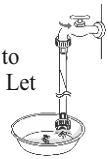
After connecting the other end of hose to machine open the tap to check for any water leakage.

If the connection leaks, close the tap and start again from step 1.

If you skip step 1, water leakage may occur.

Remove foreign substances (dirt, sand or sawdust)

After connecting inlet hose to water faucets, turn on the water faucets to flush out foreign substances (dirt, sand, or sawdust) in the water lines. Let water drain into a bucket, and check the water condition.

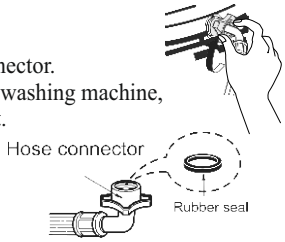


NOTE

* For your safety and for extended product life, use only authorized components. The manufacturer is not responsible for product malfunction or accidents caused by the use of separately purchased unauthorized parts.
* Use new hoses when you install the washing machine. Do not reuse old hoses. Use only the inlet hoses provided with the washer . LG does not recommend the use of aftermarket hoses.
* Periodically check the hoses for cracks, leaks and wear, and replace the hoses every 5 years.
* Do not stretch the water hoses intentionally, and make sure that they are not crushed by other objects.

Connecting Water Supply Hose to Washer

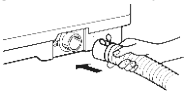
- Check to see if there is a rubber seal inside the connector.
- Connect the water supply hose to inlet valve of the washing machine, and then lock it by turning the hose connecting part.

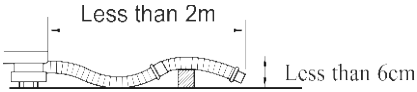


Drain Hose

Connecting the Drain Hose to Washer

1 Insert the drain hose to the connecting area at the body.

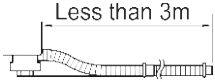




The hose is placed over a doorsill.

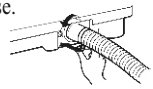
The hose is clogged by alien substances.

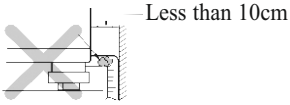
Make sure that the hose is not crushed.



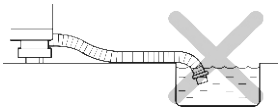
If Extension hose is used should be less than 3m

2
1. Press the hose clip.
2. While pressing, push the hose towards the body.
3. Release the hose clip after pushing the hose.





Make sure that the hose is not crushed between the wall and the washer



Avoid submerging the end of hose.

Preparation Before Washing

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.
Sort clothes into loads that can be washed with the same wash cycle.

Sorting

To get the best results, different fabrics need to be washed in different ways.

• **SOIL** (Heavy, Normal, Light)	Separate clothes according to the type and amount of soil.
• **COLOR** (Whites, Lights, Darks)	Separate white fabrics from colored fabrics.
• **LINT** (Lint Producers, Collectors)	Separate lint producers and lint collectors.
Lint Producers	Terry cloth, Towels, Nappies, Diapers
Lint Collectors	Synthetics, Socks

Check before Loading

- **Check all pockets to make sure that they are emtpy**. Things such as nails, hairclips, matches, pens, coins, and keys can damage both your washer and your clothes.
- **Mend any torn garments or loose buttons**. Tears or holes may become larger during washing.
- Remove belts, underwires, etc. to prevent damage to the machine or your clothes.
- **Pretreat any dirt and stains.**
- Make sure the clothes are washable in water.
- Check the washing instructions.
- Remove tissue from pockets.

⚠ CAUTION

Do not wash or spin any item labeled or known to be water-proof or water-resistant, even if the product care label on the item permits machine washing. Failure to follow these instructions could result in severe damage to your laundry, your washer and/or property damage as a result of abnormal vibration of the washer.
- Examples of water-proof or water-resistant items include certain mattress pads, mattress covers, rain gear, camping gear, skiing apparel, outdoor gear and similar items.

Pretreatment on stains or heavy soil

- Pretreat shirt collars and cuffs with a pre-wash product or liquid Detergent when placing them in the washer.
  Before washing treat special stains with bar soaps, liquid Detergent or a paste of water and granular Detergent.
- Use a pretreat soil and stain remover.
  Treat stains AS SOON AS POSSIBLE. The longer they are left the harder they are to remove.

(For more detail refer to page15)

Loading

Do not wash fabrics containing flammable materials (waxes, cleaning fluids, etc.)

Load Size

The WATER LEVEL should just cover the clothes. Adjust the load size accordingly. Loosely load clothes not higher than the top row of holes in the washer tub. To add items after washer has started, press Start button and submerge additional items. Close the lid and press Start button again to restart.

⚠WARNING

Fire Hazard

Never place items in the washer that are dampened with gasoline or other flammable fluids. No washer can completely remove oil. Do not dry anything that has ever had any type of oil on it (including cooking oils). Doing so can result in death, explosion, or fire.

Light and Large-sized clothing

Clothes like downs and woollens are light weight, large and float easily. Use a nylon net* and wash them in a small amount of water. If the laundry floats during the wash cycle, it may become damaged. Use dissolved Detergent to prevent the Detergent from clumping.

Long laundry items

Use nylon nets* for long, DELICATE items. For laundry with long strings or long length , a net will prevent tangling during washing. **Fasten zippers, hook, and strings** to make sure that these items don't snag on other clothes.

∗ Nylon net is not supplied by LG.

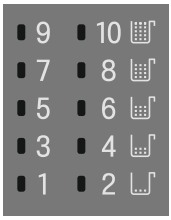
Use of Water, Detergent, Bleach and Softener

Using Water

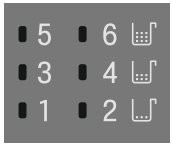
Amount of WATER LEVEL (WL)*

- This machine automatically detects desired water level according to quantity of laundry inside tub.
- Manual selection of Water level is also possible by pressing Water level key.
- While selecting Water level, selected Water level lamp will glow for each pressing of Water level key.

* Water level selection table may differ as per purchased model .



For 10 WL Models



For 6 WL Models

NOTE

If iron is present in the water the clothes may become an all-over yellow or they may be stained with brown or orange spots or streaks. Iron is not always visible. Installation of water softener or an iron filter may be necessary for severe cases.

- When washing in COLD water additional steps may be needed;
  - Adjust Detergent amount and pre-dissolve Detergent in WARM water
  - Pre-treat spot and stains
  - Soak heavily soiled items
  - Use appropriate bleach

* Temperature below 18°C... (65°F) will not activate laundry additives and may cause lint, residue, poor cleaning etc.
  In addition, Detergent manufactures and care labels is define COLD water as 26-29°C... (80-85°F).
  If the temperature of the water in the tub is too cold for your hands, the Detergent will not activate and clean effectively.

Using Detergent

Detergent

Follow the Detergent package directions. Using too little Detergent is a common cause of laundry problems.
Use more Detergent if you have hard water, large loads, greasy or oily soils or lower Water Temperature.

Choosing the right Detergent

We recommend the use of domestic Detergent, (powder, liquid or concentrated). Soap flakes or granulated soap powders should not be used in your washing machine. When washing woolens remember to use Detergent suitable for washing woolens.

Use of Water, Detergent, Bleach and Softener

Water Level and Amount of Detergent

- Concentrated detergent: 20g approx. per 30 liters of water.
- Regular synthetic detergent: 30g approx. per 30 liters of water.
- When sensing water levels automatically, the amount of detergent can differ according to the amount of laundry even at the same water level.
- For synthetic detergent, use one that generates less bubbles. This type of detergent is specially designed for washers
- In case of using liquid detergent, dissolve it with water (detergent: water=1:1) and deposit it through the bleach deposit hole
- The correct amount of detergent will vary depending on the amount of soil in your clothes. (Jeans and work clothes may need more detergent, while bath towels usually need less.)
- For liquid and concentrated detegants, follow the recommondations of the detergent manufacturer.

Water Level (WL)		Amount of Water	Amount of laundry
10 WL Model	6 WL Model		
10	6	62 ℓ	Less than **
9	5	59 ℓ	Less than 5.0 kg
8		51 ℓ	Less than 3.5 kg
7	4	50 ℓ	Less than 3.0 kg
6		48 ℓ	Less than 2.5 kg
5	3	42 ℓ	Less than 2.0 kg
4		39 ℓ	Less than 1.5 kg
3	2	34 ℓ	Less than 1.0 kg
2		29 ℓ	Less than 0.6 kg
1	1	26 ℓ	Less than 0.4 kg

Applicable for models 8.0kg and lesser

Water Level	Amount of Water	Amount of laundry
10	85 ℓ	Less than **
9	80 ℓ	Less than 6.0 kg
8	68 ℓ	Less than 5.3 kg
7	66 ℓ	Less than 4.6 kg
6	62 ℓ	Less than 3.9 kg
5	52 ℓ	Less than 3.2 kg
4	49 ℓ	Less than 2.5 kg
3	42 ℓ	Less than 1.8 kg
2	34 ℓ	Less than 1.1 kg
1	32 ℓ	Less than 0.5 kg

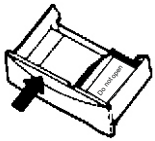
Applicable for models 9.0kg and above

**** Rated Capacity of Model**

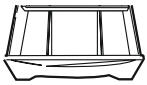
Note : To check you are using the correct amount of Detergent, lift the lid of your machine about half-way through the wash. There should be a thin layer of foam over the surface of the water. Lots of foam may look good, but it does not contribute to cleaning your clothes. No foam means not enough Detergent has been used, soil and lint can settle back on the clothes or the washing machine.
If excess Detergent is used, the rinse will not be efficient. Also, it could cause environmental pollution, so use it accordingly.

Adding the detergent *

Add measured detergent to the detergent compartment of the dispenser drawer.
We recommend the use of powdered detergent in the dispenser only when using a delay wash function.
Detergent is flushed through the dispenser at the beginning of the wash phase.
Detergent usage may need to be adjusted for water temperature, water hardness, size and soil level of the load.
Avoid using too much detergent in your washer, as it can lead to oversudsing and detergent residue being left on the clothes.

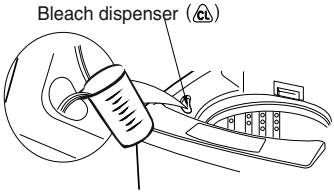


OR



Using Liquid Bleach

- Check clothing care label for special instructions and separate the laundry to be bleached.
- Dilute liquid chlorine bleach.
- Measure the recommended amount of liquid bleach carefully following instructions on the bottle.
- Before starting the washer, pour measured amount of bleach directly into bleach dispenser. Avoid splashing or overfilling. Powdered bleach should be mixed with water before pouring.



NOTE

- ■ Never pour undiluted liquid bleach directly onto clothes or into the wash basket.
  This may cause change of color or damage the laundry.
- ■ Do not mix chlorine bleach with ammonia or acids such as vinegar and/or rust remove Mixing can release a toxic gas which may cause death.
- ■ Do not pour powdered bleach into bleach dispenser.

* Images used here are only for representation purpose. Actual Features/parts may vary from model to model.

Use of Water, Detergent, Bleach and Softener

Using Fabric Softener

- Dilute fabric softener with water.
  Undiluted fabric softener may result in spots that look like oil stains.
- Measure and add the recommended amount of fabric softener into the compartment marked with this symbol( ).
  Follow manufacturer's direction.

Softener dispenser( )

☞ Fabric softener is automatically dispensed in the final rinse with indication beep.

☞ If you want extra rinse, you must add fabric softener manually when indication beep rings in the final rinse.
This maximize the fabric softener function.

- Do not overfill. The dispenser hold max 35ml.
  Never add more than 35ml.
  Overfilling can cause early dispensing of the fabric softener which could result in stained clothes.
  A cup with a pouring spout will help you avoid spilling.
- The effect of adding fabric softener may vary according to its viscosity. The stickier fabric softener makes its effect the lower. For a sticky fabric softener it is recommended that it be diluted with water, then be manually correct time to dispense manually is optionally applied to some models. Please keep it in mind that fabric softener has to be diluted with water before dispensed and never poured directly on clothes.

Attention

- Do not mix with detergent or bleach.
- Never pour fabric softener directly on clothes. It may stain them.
- Do not stop the washer during the first spin for timely dispensing.
- Option washing is not designed to be used with fabric softener dispenser.

Scrud (Waxy Build up)

Scrud is the name given to the waxy build-up that can occur within any washer when the fabric softener comes into contact with Detergent. This build-up is not brought about by a fault in the machine.

If scrud is allowed to build-up in the machine it can result in stains on your clothes or an unpleasant smell in your washer.

If you wish to use fabric softener we recommend

- Using fabric softener sparingly.
- When filling the dispenser, do not splash or overfill.
- Clean dispenser as soon as the cycle is finished.
- Clean your machine regularly. ***(refer to page 19 or 26)***
- Cold water washing increases the chance of this build-up occurring. We recommend a regular WARM wash e.g. every 5th wash should be at least a warm one.
- Fabric softener of thinner consistency is less likely to leave residue on the dispenser and contribute to a build-up.

Special Guide for Stain Removal

⚠WARNING

- Do not use or mix liquid chlorine bleach with other household chemicals such as toilet cleaners, rust removers, acid or products containing ammonia. These mixtures can produce dangerous fumes which can cause serious injury or death.
- To reduce the risk of fire or serious injury to persons or property, comply with the basic warnings listed below:
  - Read and comply with all instructions on stain removal products.
  - Keep stain removal products in their original labeled containers and out of children's reach
  - Thoroughly wash any utensil used.
  - Do not combine stain removal products, especially ammonia and chlorine bleach. Dangerous fumes may result.
  - Never wash items which have been previously cleaned in, washed in, soaked in or spotted with gasoline, dry cleaning solvents or other flammable or explosive substances because they give off vapors that could ignite or explode.
  - Never use highly flammable solvents, such as gasoline, inside and near Washer. Vapours can explode on contact with flames or sparks.

For successful stain removal:

- To remove Stains efficiently determine the kind of stain, then follow the recommened treatment given in the stain removal chart below:-
- To pretreat stains, use a prewash product, liquid Detergent, or a paste made from granular Detergent and water.
- Use COLD water on unknown stains because warm water can set stains.
- Check care label instructions for treatments to avoid on specific fabrics.
- Check for color fastness by testing stain remover on an inside seam.
- Rinse and wash items after stain removal.

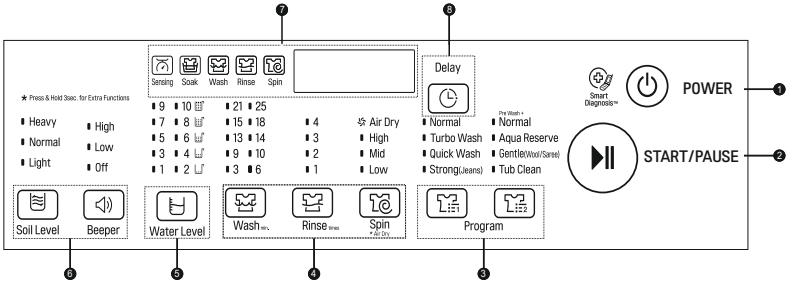
Follow fabric care label instructions

Stain Removal

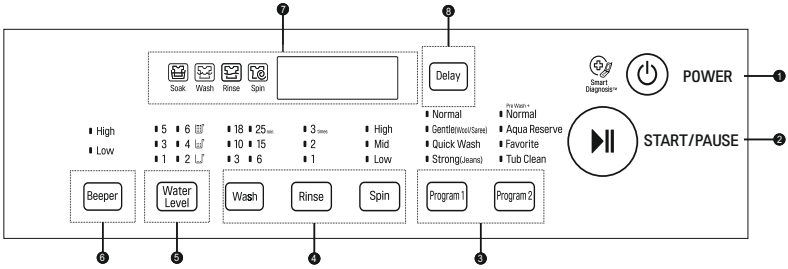
STAIN	TREATMENT
Adhesive tape, chewing gum, rubber cement	Apply ice. Scrape off excess. Place stain face down on paper towels. Saturate with prewash stain remover or nonflammable dry cleaning fluid.
Baby formula, dairy products, egg	Use product containing enzymes to pretreat or soak stains.
Beverages (coffee, tea, soda, juice, alcoholic beverages)	Pretreat stain. Wash using COLD water and bleach safe for fabric.
Blood	Rinse with COLD water. Rub with bar soap. Or pretreat or soak with product containing enzymes. Wash using bleach safe for fabric.
Candle wax, crayon	Scrape off surface wax. Place stain face down between paper towels. Press with warm iron until wax is absorbed. Replace paper towels frequently. Treat remaining stain with prewash stain remover or nonflammable dry cleaning fluid. Hand wash to remove solvent. Wash using bleach safe for fabric.
Chocolate	Pretreat or soak in WARM water using product containing enzymes. Wash using bleach safe for fabric.
Collar or cuff soil, cosmetics	Pretreat with prewash stain remover or rub with bar soap.
Dye transfer on white fabric	Use packaged color remover. Wash using bleach safe for fabric.
Grass	Pretreat or soak in WARM water using product containing enzymes. Wash using bleach safe for fabric.
Grease, oil, tar (butter, fats, salad dressing, cooking oils, car grease, motor oils)	Scrape residue from fabric. Pretreat. Wash using hottest water safe for fabric. For heavy stains and tar, apply nonflammable dry cleaning fluid to back of stain. Replace towels under stain frequently. Rinse throughly. Wash using hottest water safe for fabric.
Ink	Some inks may be impossible to remove. Washing may set some inks. Use prewash stain remover, denatured alcohol or nonflammable dry cleaning fluid.
Mildew, scorch	Wash with chlorine bleach if safe for fabric, or soak in oxygen bleach and warm water before washing. Badly mildewed fabrics may be Permanently damaged.
Mud	Brush off dry mud. Pretreat or soak with product containing enzymes.
Mustard, tomato	Pretreat with prewash stain remover. Wash using bleach safe for fabric.
Nail polish	May be impossible to remove. Place stain face down on paper towels. Apply nail polish remover to back of stain. Repeat, replacing paper towels frequently. Do not use on acetate fabrics.
Paint, varnish	WATER BASED : Rinse fabric in cool water while stain is wet. Wash. Once paint is dry, it cannot be removed. OIL BASED & VARNISH : Use solvent recommended on can label. Rinse thoroughly before washing.
Rust, brown or yellow discoloration	For spots, use rust remover safe for fabric. For discoloration of an entire load, use phosphate Detergent and nonchlorine bleach. **Do not use chlorine bleach because it may intensify discoloration.**
Shoe polish	LIQUID : Pretreat with a paste of granular Detergent and water. PASTE : Scrape residue from fabric. Pretreat with prewash stain remover or nonflammable dry cleaning fluid. Rub Detergent into dampened area, Wash using bleach safe for fabric.

Control Panel

■ For 10 Water Level Model



■ For 6 Water Level Model



① POWER BUTTON

- Press the Power button to turn the washing Machine on.
- The appliance will automatically turn off once a certain time has passed after the wash has completed

② START/PAUSE BUTTON

- Press the Start/Pause button to start the wash cycle or pause the wash cycle
- If a temporary stop of the Wash cycle is needed, press the Start/Pause button.

③ PROGRAM BUTTON

- Use for selecting wash program.
- This button allows you to select 8 different programs for different kinds of laundry and dirtiness.
- Program selection light up in sequence as follows:

For models having Jet Spray Feature

Program 1:

Normal ▶ Turbowash ▶ Quick Wash ▶ Strong ▶Normal

Program 2:

Prewash+Normal ▶ Aqua Reserve ▶ Gental(Wool/Saree)▶ Tub Clean ▶ Prewash+Normal

For models not having Jet Spray Feature

Program 1:

Normal ▶ Gental(Wool/Saree)▶Quick Wash▶ Strong(Jeans)▶Normal

Program 2:

Prewash+Normal▶Aqua Reserve▶Favorite Tub Clean ▶ Pre wash+Normal

④ WASH, RINSE, SPIN BUTTON

- Use when wash, rinse, spin, time need to be adjusted.
- The time increases when the button is pressed.
- If adjustment are needed during the wash, press the [start/pause] button before making any changes.
- When the button is pressed during washing, total remaining cycle time is displayed.

⑤ WATER LEVEL BUTTON

- Use to select the proper amount of water in relation to the to the weight and type of laundry.
- Automatically controlled, but can be selected manually by pressing the WATER Button.
- Water Level is automatically selected for normal program. The following setting are indicated as the button is pushed.

7▶ 8▶9 ▶10▶1▶2▶3▶4▶5▶6▶7 *For 10 Water Level Model*

4 ▶ 5 ▶ 6▶ 1▶ 2▶3 ▶ 4 *For 6 Water Level Model*

NOTE

* Do not press any three or four buttons simultaneously, it may cause malfunctioning.

Picture (control Panel) given here is only for representation purpose. Actual Features may vary from model to model. Product feature may very according to different models. Refer page 35 for model wise features for your purchase model.

⑥ BEEPER BUTTON

- If you want to use the washing machine without alarm signalsounds.pressing Beeper button allow you to select : High ▶ Off , Low ▶ High respectively default setting is high.

SOIL LEVEL*

- Use this feature based on soil/ dirt level of the cloth. selected soil level for low, medium or high soil/ dirt level respectively.
- This feature cannot be selected for courses: Tub clean, Wool, Air Dry & Turbo Wash.
- This feature can not be selected when only spin option is selected.

⑦ TIME LEFT, DELAY START (RESERVATION), ALARM INDICATION

- **Time Left-** During operation, the remaining time is indicated.
- **DELAY START INDICATION(RESERVATION)-** When Delay Start (Reservation) Program is selected, it indicates the finishing time. (RES. = DELAY)
- **Alarm Indication-** When an error occurs, an error message appears to indicate the abnormality.

For Example- OE indicates that the lid is open.

* Do not press any three or four buttons simultaneously, it may cause malfunctioning.

⑧ DELAY START BUTTON

- Use to set a delayed finishing time.
- The time increase when the button is pushed.
- To cancel delay time, turn the power switch off or press Start/Pause button & then keep pressing delay button until delay LED turn off.
  (refer to page 24)

SMART DIAGNOSIS ™ Function Display

- It makes the place to put the phone to receive signal when when a problem occurs.
  (***refer to page*** 29)

Other Useful Functions

Child Lock Function▲

If you want to lock all the keys to prevent settings from being changed by a child, you can use the child lock option.

How to Lock

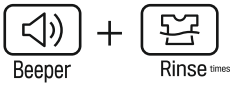
1 Press the **POWER** button.

- Turn Power on.

2 Press the **START/PAUSE** button to start washing.

- After all washing conditions are set according to the manual.

3 Press and hold Beeper and Rinse Button simultaneously for 3 second.



- The child lock is set, it will not be released automatically even if the cycle is terminated.
- Thus, you should turn power on washing machine and then terminate function by pressing "Beeper and Rinse" button simultaneously for 3 second.

How to Unlock

To unlock, press & hold the Beeper and Rinse Button simultaneously for 3 second again.

NOTE

- "CL" & the remaining time are alternatively shown on the display while they are locked.

▲ Power On/Off button can operate while Child Lock function is activated.

* Product feature may vary according to different models. Refer page 35 for model wise features for your purchase model.

Washing Programs

Wash cycles are designed for the best wash performance for each type of load. Select the Program that best matches the load contents for maximum wash performance and fabric care.

Step	Action
1	POWER AUTO OFF • Press the Power Button
2	• Add laundry
3	PROGRAM • Select the desired wash program by Pressing Program Key.
4	START/ PAUSE • Close the Lid • Press Start/Pause Button Wash tub rotates twice to detect the laundry load. Water Level will be selected automatically and water will be supplied. • Open the lid and add appropriate quantity of detergent as shown on water level indicator or follow the detergent manufacture's instructions. • Close the Lid
End	• When the Wash Program Ends, the Buzzer will ring and the Power goes off automatically after 15 Second.

Normal

Use this program for washing every day Normal clothes. e.g. sheets, towels, T-shirts. This mode automatically selects the most appropriate conditions and completes the sequence in one operation. The built-in sensor detects the size of the load and ideal wash power & wash, rinse and spin times are set accordingly.

Note :

- Normal program is set by default.
- If water or wet laundry is already in the drum before starting, the water level will be increased.
- For lightweight bulky loads, the water level may be too low and should be increased manually.
- Changes to water level is possible, only after pressing START/PAUSE button during operation.

Quick Wash

Use this Program to wash lightly soiled clothes for a short time. This Program's recommended laundry amount is under 2.0 kg.

Note :

- When static pressure of water is more than 196.13 kPa, the QUICK WASH course will be finished.

23 min : Model 8.0kg or lesser.
27 min : Model 9.0kg or more.

Washing Programs

Gentle (Wool / Saree)*

Use this program for washing delicate fabrics such as lingerie, woolens, Saree, Etc. (wash only "water washable" clothes).

Note :

- When setting the WATER LEVEL manually, do not set to medium to prevent damage to laundry. It should always be high.
- Most hand-knitted garments are not machine washable, so recommend you to hand wash them.
- For the washing instruction, check the clothing label before wash.
- A neutral detergent is recommended for the woolens or Saree.
- Do not use a tumble dryer to prevent damage.
- To avoid direct sunlight, cover up the clothes with towels during natural dry.
- Some woolens or sweater may clog the drain hose by their lint, so recommend you to use spin only after hand-wash them.
- In order to avoid damage to laundry, the spin cycle may appear slow. This also avoids Wrinkles and laundry may still contain some water at the end of the cycle. This is normal.

Turbo Wash*

- Use this program to save Time with efficient Water & Energy consumption

Note:
For Optimum Turbo wash performance we recommend to use 1 to 7 water Level with default selections.

Strong (Jeans)

Use this Program for heavily soiled durable garments e.g. overalls, jeans. Thick and heavy clothes or those which are excessively dirty like working uniforms can be washed.

Note :

- Spread Jeans / Heavy loads evenly in the tub to avoid Unbalancing issues.

Tub Clean

If scrud is allowed to build-up in the machine it can result in stains on your clothes or unpleasant smell in your washer. In these case,use this program to clean inner tub and outer tub.

a) After 10 min of water supplement add the oxygenated bleach (about 300ml).

Note:- 1. Do not use detergent box.
2. Do not place any laundry inside tub.

b) Close the lid.

Note:- 1. When the lid is open, machine will not operate, and an alarm signal will remind you to close the lid.

Note:-

- Before using this program remove lint inside lint filter.
- When using this program, do not place any laundry inside tub.
- This program takes about 2hours to be completed.
- Do not pour bleach into the tub directly. It might cause damage to the tub.
- Do not leave diluted oxygenated bleach inside tub for long ,time as it may rust the tub.
- After using this program, remove dirt inside filter.
- After finishing this program, open the lid to remove irritant odor.
- Do not use this program repeatedly. Use this program once in every month.

Aqua Reserve

Use this program to reuse the water for second round of wash load. Water will not Drain at the end of the cycle and can be reused for washing another lot.

Note :

- Do not keep water hold for long time after the end of cycle. This may cause bad odour and damage the laundry.
- SPIN function cannot be done in AQUA RESERVE wash program.

* Product feature may vary according to different models. Refer page 35 for model wise features for your purchase model.

Pre Wash+ Normal

Use as pre-treatment to wash heavily soiled, shirt neck collar & sleeves, kids soccer/sports wear. 8 min of unique pre washing operation will be performed before main wash.

Wash(2min) ▶ Soak(2min) ▶ Wash(2min) ▶ Soak(2min)

Note:

- If water or wet laundry is already in the drum before starting, the water level will be increased.
- For lightweight bulky loads, the water level may be too low and should be increased manually.
- Changes to water level is possible, only after pressing START/PAUSE button during operation.

Favorite Wash*

Use this program it will allow you to store your Favorite wash conditions in the normal cycle memory and then recall it for use at a later time.

To select your **FAVORITE** wash conditions.

• Press the **WATER LEVEL** button to select **WATER LEVEL.** • Press the **WASH** button, the **RINSE** button & the **SPIN** button to select wash time, rinse times & spin time respectively you want to store.

• Press the START/PAUSE button to store & start your FAVORITE wash cycle. power turns off automatically after wash.

Note:

To recall your favorite cycle,

1. Press Power ON.
2. Select the FAVORITE cycle by pressing the program.
3. Press the START/PAUSE button, Then The Wash Cycle starts.

* AIR DRY

1	POWER	Press the **POWER** button to turn power on.
2	Spin * Air Dry	Press Spin for 3 second to select Air Dry. • Other function cannot be selected during Air Dry. • Automatically set to 30 min upon selection. • Press Spin button again to select duration.(30min ▶ 1h ▶1:30h ▶2h) • To deselect Air Dry press power button.
3	START/PAUSE	Press the **START/PAUSE** button.
		When the cycle ends, the buzzer will ring and the Power goes off automatically after 15 second.

Notice

When you select Air Dry for more than 1 hour
1) You can reduce the drying time by minimizing the moisture in the laundry.
2) Always keep the laundry amount to 2kg or less and make sure to spread it out evenly.
3) Select 1 hour for cotton laundry and 2 hours for synthetic fiber laundry for effective Moisture removal.

* Product feature may vary according to different models. Refer page 35 for model wise features for your purchase model.

ENERGY SAVING GUIDE

To enter into the Energy Saving mode follow bellow guide:

1 Press the **Power** button to turn power on.

2 Press the **PROGRAM** button to select the STRONG (Jeans) Program.

3 **Follow Step 3 as per your purchased model.**

a) T65SJ* , T70SJ* , T75SJ*, T80SJ*
Set the Soil Level - Heavy, Water Level - 10, Wash - 25min, Rinse - 2times, Spin - High.

b) T65SP* , T70SP*, T75SP*, T80SP*
Set The Water Level - 6, Wash - 25min, Rinse - 2times, Spin - High.

c) T65SN* , T70SN* , T80SN*
Set the Water Level - 10, Wash - 25min, Rinse - 2times, Spin - High.

d) T90SJ*, T10SJ*
Set the Soil Level - Heavy, Water Level - 10, Wash - 18min, Rinse - 2times, Spin - High.

4 Close the lid & press the **START/PAUSE** button.

NOTE

- Under test conditions, When tested accordance with standards IEC 60456 : 2010 & BEE schedule – 12 (Revision - 3) . Actual performance of machine will depend on how the appliance is being used.
- We recommend the use of powdered detergent in the dispenser only when using a delay wash function.
- For best washing result we recommend to mix the detergent powder in warm water and pour directly into the drum before putting the clothes.(*Rated Capacity Load*)

SMART CLOSING DOOR

- Washing process can be seen inside the tub through tempered safety glass.
- Smart hinge prevents sudden closing of the door.
- Door is heavy, be careful while closing of the door. Do not let your hands or any other material to caught below door. It might cause injury or damage.
- Door closing time is dependent on ambient temperature.
- Higher the ambient temperature, lower the door closing time and vice versa.
- Smart Closing Door performs best when lid is closed from full open condition.

SOAK Wash

Use this mode to wash normal clothes or thick and heavy clothes which are excessively dirty. SOAK mode can be used with NORMAL or STRONG (JEANS) or AQUA RESERVE WASH Program.

1 Press the **POWER** button to turn power on

2 Press the **PROGRAM** button to select the washing program.

- SOAK will not work in GENTLE(WOOL/SAREE), PREWASH+ NORMAL , QUICK WASH & TURBO WASH Programs.

3 Press the **WASH** button, to select **SOAK** program.

- Keep pressing the WASH button again & again until the light turns on 'SOAK' and 'WASH' simultaneously as next image.
- Segment display total cycle time.
- For e.g. After wash selection of 25 min, each consecutive wash button press, sets soak wash for 15, 25, 35 min respectively.

4 Add the laundry and press the **START/PAUSE** button.

- The **WATER LEVEL** will be shown and water will be supplied.

5 Add the Detergent.

6 Close the lid.

- Water will be supplied for 2 min after the start of the wash to supplement the absorbed water by the laundry.

Finish

- When the wash program ends, the buzzer will ring and the power goes off automatically after 15 second.

NOTE

- Order of Soak-Wash timing

- Select soaking time 15 min, 25 min, or 35 min (excluding washing time) by pressing the wash button repeatedly.
- If necessary, select the times of Rinse and the time for Spinning by pressing the Rinse or spin buttons till you reach the desired times.

* Starting time in Order of Soak-Wash timing may vary model to model.

Option Washing

When you need a rinse and spin, spin only, rinse only or wash only cycle, these can be set manually.

	Wash Only	Rinse Only	Spin Only
1	or Press the **POWER** button.		
2	Press the **Wash** button.	Press the **Rinse** button.	Press the **Spin** button.
3	Rinse and spin are automatically selected.	Press the **Spin** button untill the spin function is cancelled.	Press the **Spin** button to adjust spin strength.
4	and Press the **Rinse** and Spin buttons until the rinse and spin functions are cancelled.	Press the **Rinse** button to adjust the number of rinses.	
5	Press the START/PAUSE buttons to start the cycle(s).		

	Wash and Rinse	Rinse and Spin	Drain Only
1	or Press the **POWER** button.		
2	and Press the **Wash** button.	Press the **Rinse** button.	Press the **Spin** button.
3	Press the Spin button until the spin function is cancelled.	Rinse and spin are automatically selected.	Press the Start/Pause button.
4	Press the Wash & spin button to select the desires Wash & Rinse cycles.	and Press the **Rinse** or **Spin** buttons to select the desired no. of rinse and spin cycle.	Wait until the water in the washing tub drains completely.
5	Press the START/PAUSE buttons to start the cycle(s).		or Press POWER button to turn off washer.

NOTE

- When you set a washing cycle manually such as rinse only, wash only or wash and rinse, the water will not be drained out after the wash is completed. If you wish to drain the water, select a spin only cycle after the wash has completed.
- If a rinse only cycle is selected, the water supply begins after detecting the load and the cycle will start. However the water will still fill to the selected water level even if there is water already in the tub.
- If you do not select or change the Water Level, the water level will be set automatically.

DELAY START (RESERVATION) Wash

DELAY START (RESERVATION) Wash is used to delay the finishing time of the operation. The hours to be delayed can be set by the user accordingly. The time on the display is the finishing time, not the start time.

1 Press the **POWER** button to turn power on.

2 Press the **PROGRAM** button to select the washing program.

- Select the program for laundry on the Control panel. This program will not work in GENTLE (WOOL/SAREE) and TUB CLEAN Program.

3 Press the **DELAY START (RESERVATION)** button.

Press Time Delay (Reservation) button to set reservation time.

- If reservation button is pressed, it will turn on reservation lamp and show up 3:00.

ex) It is 1:00 PM and if you want to finish laundry by 7:00 PM

- Keep press reservation button to set desired laundry ending time. (7:00-1:00=6hours)

- Reservation can be made up to 3~18 hours.
- For 3~12 hours, reservation can be set in 1 hour interval
- For 12~18 hours, reservation can be set in 2 hour interval.
- Less than 3 hour it cannot be reserved

4 Add the laundry and press the **START/PAUSE** button.

- When you press the START/PAUSE button the light will blink.

5 Add the Detergent in the dispenser drawer.

6 Close the lid.

- Water Refill will be checked & water will be supplied as per requirement after the start of the wash to supplement the absorbed water by the laundry.

Finish

- The washing will be finished according to the delayed time.

NOTE

- Finishing time can be delayed from 3~18 hours. Delaying from 3~12 hours can be done in 1 hour time intervals and from 12~18 hours in 2 hour time intervals.
- If the lid is open, the machine will not work, and an alarm signal will alarm to remind you to close the lid.
- To select washing time, rinsing time, spinning time, water level, hot/cold or wash program manually, press the DELAY START (RESERVATION) button and select the desired option. Then press the START/PAUSE button.
- When the laundry cannot be taken out immediately after the wash program ends, it is better to omit the spinning program . (The laundry will be wrinkled if left for a long time after spinning.)

Cleaning and Maintenance

Cold water washing

- If you always use COLD water, we recommend that a WARM wash be used at a regular intervals e.g. every 5th wash should be at least a WARM one.

When you have finished

- Turn off tap to prevent the chance of flooding in case of Hose Burst.
- Always unplug the power cord after use.

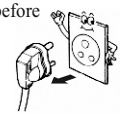
When water supply into the tub is not clear or the filter is clogged with particles (such as sand), clean the filter in the inlet valve occasionally.

(The figure of power cord and water tap may vary)

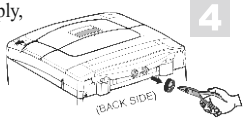
To Clean the Filter in the Inlet Valve#

1. Close the tap before turning off the power. Then press the [START/PAUSE] button to remove water from the machine completely.

2. Turn off Electric Supply before pulling out power plug.



3. After Stopping the water supply, Remove inlet hose connected to the machine and pull out the filter as shown.



Then use a brush to clean the filter.

4. Replace the filter after cleaning it.

NOTE

- Before cleaning the filter, the impurities in the water supply hose should be removed.

To Clean the Magic Filter

1 2 3 4 5 6

NOTE

- If the magic filter is damaged, purchase a new one from LG Authorised Service Center.

Product feature may vary according to different models. Refer page 35 for model wise features for your purchased model.

Please do not match the figures with model as it may be different from your model. These are schematic diagrams only.

Cleaning and Maintenance

When there is a fear of freezing

- Close the water taps and remove the Water Supply Hose.
- Remove the water which remains in the water supply.
- Lower the drain hose and drain the water in the bowl and the drain hose by spinning.

If Frozen

- Remove the water supply hose, and immerse it in warm water at approx. 40℃.
- Pour approx. 2 liters of WARM water at approx. 40 ℃, into the bowl and let it stand for 10 min.
- Connect the water supply hose to the water tap and confirm that the washing machine performs the supply and drainage of water.

Wash Inner-tub	Leave the lid open after washing to allow moisture to evaporate. If you want to clean the inner-tub use a clean soft cloth dampened with liquid Detergent, then rinse.(Do not use harsh or gritty cleaners.)
Inlet Hoses	Hoses connecting washer to faucet should be replaced every 5 years.
Exterior	Immediately wipe off any spills. Wipe with damp cloth. Try not to hit surface with sharp objects.
Long Vacations	Be sure water supply is shut off at faucets. Drain all water from hoses if weather will be below freezing.

Cleaning the inside of your Washer

If you use fabric softener or do regular COLD water washing, it is very important that you occasionally clean the inside of your washer.

- Fill your washer with WARM water.
- Add about two cups of a powdered Detergent that contains phosphate.
- Run Wash Program for 25 min approx.
- Stop the washer, open the lid and leave it to soak overnight.
- After soaking, drain the washer and run it through a normal cycle.

Or use TUB CLEAN PROGRAM periodically.

We do not recommend you to wash clothes during this procedure.

Products that might damage your washing machine

- Concentrated bleaches and diaper sanitizer will cause damage to the paintwork and components of your washer.
- Hydrocarbon solvents i.e. petrol, paint thinners and lacquer thinners, etc. can dissolve plastic and blister paint (Be careful when washing garments stained with these solvents as they are flammable DO NOT put them in washer or dryer.)
- Some pretreatment sprays or liquids can damage your washer’s control panel.
- Use of dyes in your washer may cause staining of the plastic components. The dye will not damage the machine but we suggest you thoroughly clean your washer afterwards. We do not recommend the use of dye strippers in your washer.
- Do not use your washer lid as a work surface.

Common washing problems

Many washing problems involve poor soil & stain removal, residues of lint and scum, and fabric damage. For satisfactory washing results, follow these instructions.

WASH PROBLEM

Problems	Possible Causes	Solutions & Preventive Measures
Poor soil removal	• Not enough Detergent • Wash Water Temperature too low. • Overloading the washer • Incorrect wash cycle • Incorrect sorting • Pretreat stain not done	• Use correct amount of Detergent for load size, amount of soil and water hardness. • Use WARM water for normal soil. Different Water Temperature may be required according to soil type. ***(refer to page 12)*** • Reduce load size. • Wash with STRONG (JEANS) or SOAK & STRONG (JEANS) wash cycle for heavy soiled laundry. • Separate heavily soiled items from lightly soiled ones. • Pretreat stain and heavy soil according to directions shown on page 11.
Blue Stains	• Undiluted fabric softener dispensed directly onto fabric	• Rub the stain with bar soap. • Do not overfill fabric softener dispenser and do not pour liquid fabric softener directly onto fabric. See page14 &15 for more instructions.
Black or gray marks on clothes	• A buildup caused by the interaction of fabric softener and Detergent can flake off and mark clothes • Not enough Detergent	• Keep the recommendations against Scrud(waxy buildup). (refer to scrud page14.) • Use correct amount of Detergent for load size, amount of soil and water hardness.
Yellow or brown rust stains	• Iron or manganese in water supply, water pipes, or water heater	• To restore discolored load of whites, use rust remover safe for fabric. • Install nonprecipitating water softener or an iron filter in your water supply system for an ongoing problem. • Before washing, run water for a few min to clear lines.
Lint	• Incorrect sorting • Tissues left in pocket • Overloading the washer	• Wash lint givers eg. towels, flannelette sheets, separately from lint collectors eg. synthetic fabrics and remove tissues in pockets before wash. See page 11 for sorting and caring before loading. • Do not overload the washer
Residue or Detergent	• Overloading the washer • Undissolved Detergent • Use too much Detergent	• Do not overload the washer. • Some Detergents need to be pre-dissolved, check the Detergent instructions. Try pre-dissolving the Detergent. • Increase Water Temperature using HOT water safe for fabric. • Use proper amount of Detergent.
Holes, tears, or snags	• Incorrect use of chlorine bleach. • Unfastened zippers, hooks, buckles • Ribs, tears and broken threads • Overloading the washer • Degradation of fabric	• Never pour chlorine bleach directly on fabric. See page 13 for adding liquid bleach. • Fasten zippers, hooks, and buckles. • Remove objects in pockets. See page 11 for caring before loading. • Do not overload the washer.

Troubleshooting

Self-diagnostic error mode

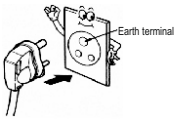
The machine will display and playback the error messages if there is any error in machine for your suitable action.

Symptom	Error Display	Checkup
Water Supply Failure	IE	• Is the water tap shut off? • Is the water supply cut off ? • Is the tap or water supply hose frozen ? • Is the water pressure low or is the filter of the inlet valve clogged with impurities? • Is the hose connected to Inlet & tap?
Drainage Failure	OE	• Is the drain hose positioned correctly? • Is the drain hose bent or placed too high? • Check if electric power has gone off ?
Spin Failure	UE	• Is the laundry evenly balanced? • Is the washing machine placed on a flat surface?
Door(Lid) Open	dE	• Is the lid closed? - Close the lid properly. - Press Start button to remove dE error. - Press Start button again to resume the machine operation.
Internal sensing failure	PE	• Please call your nearest LG Electronics service center for help.
Power failure	AE	
Motor Error	LE	
Overflow failure	FE	
Child Lock	CL	• Once Child Lock is applied, it will not deactivate automatically after Power Turn Off and again Turn On. To deactivate Child Lock, Press & Hold Beeper and Rinse key simultaneously for 3 Second.

Earthing

Earthing wire should be connected to earthing Pin.
If earthing Wire is not connected there is possiblity of Electric Shock caused by the current Leakage.

⚠ Insert the power plug into the power socket outlet with proper Earthing.Inconstancy to this may damage machine and electrical shock.

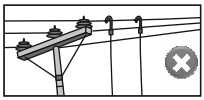


⚠ CAUTION

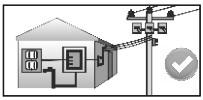
Concerning the Power Cord

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

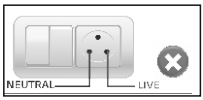
⚠ CAUTION Violation of below directions may cause damage of any electric part or product malfunctioning. Always be careful.



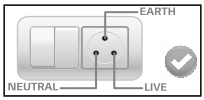
Do not take power supply from pole using hook. It may cause damage of any electric part or product malfunctioning.



Use supply from proper distribution system.



No earthing wire may cause damage of any electric part or product malfunctions.



Use earthing wire in socket.

Note : Warranty shall not be applicable in case of wrong usage as mentioned herein.

Smart Diagnosis™

LG ThinQ Application

Installing the LG ThinQ Application

Search for the **LG ThinQ** application from the Google Play Store or Apple App Store on a smartphone. Follow instructions to download and install the application.

LG ThinQ Application Features

Smart Diagnosis

This function provides useful information for diagnosing and solving issues with the appliance based on the pattern of use.

Smart Diagnosis

This feature is only available on models with the or logo.
Use this feature to help you diagnose and solve problems with your appliance.

NOTE

- The feature may be subject to change without prior notice and may have a different form depending on where you are located.
- For reasons not attributable to LGE's negligence, the service may not operate due to external factors such as, but not limited to, Wi-Fi unavailability, Wi-Fi disconnection, local app store policy, or app unavailability.

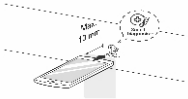
Using Smart Diagnosis to Diagnose Issues

Follow the instructions below to use the audible diagnosis method.

- Launch the **LG ThinQ** application and select the **Smart Diagnosis** feature in the menu.
  Follow the instructions for audible diagnosis provided in the **LG ThinQ** application.

1 Press the **Power** button to turn on the appliance.
   - Do not press any other buttons.

2 Place the mouthpiece of your smartphone close to the or logo.



3 Press and hold the **Water Level** button for 3 second or longer while holding the smartphone mouthpiece to the logo until the data transfer is complete.
   - Keep the smartphone in place until the data transfer has finished. Time remaining for data transfer is displayed.

4 After the data transfer is complete, the diagnosis will be displayed in the application.

Using Smart Diagnosis™

- Only use this feature when instructed to do so by the LG Customer Service Call Center. The transmission sound is similar to a fax machine, and so has no meaning except to the call center.
- SmartDiagnois™ cannot be activated if the washer does not power up. If this happens, then troubleshooting must be done without SmartDiagnosis™.
- If you experience problems with your washer, call to Customer information center. Follow the call center agent's instruction, and do the following steps when requested.

1 Press the POWER button to turn on the washer. Do not press any other buttons on turn the cycle selector knob.

2 When instructed to do so by the call center, place the mouthpiece of your phone very close to the POWER button.

3 Press and hold the Water level button for three second, while holding the phone mouthpiece to the icon or POWER button.

4 Keep the phone in place until the tone transmission has finished. This takes about 6 second, and the display will count down the time.
   - For best result, do not move the phone while the tones are being transmitted.
   - If the call center agent is not able to get an accurate recoding of the data, you may be asked to try again.

5 Once the countdown is over and the tones have stopped, resume your conversation with the call center agent, who will then be able to assist you using the information transmitted for analysis at the call center.

Smart Diagnosis is troubleshooting feature designed to assist, not replace, the traditional method of troubleshooting through service calls.
The effectiveness of this feature depends upon various factors, including, but not limited to, the reception of the cellular phone being used for transmission, any external noise that may be present during the transmission and the acrostics of the room where the machine is located.
Accordingly, LG does not guarantee that Smart Diagnosis would accurately troubleshoot any given issue.

NOTE:- For best results, do not move the smartphone while the tones are being transmitted.

Disposal of old appliance

Disposal of your old appliance (as per e-waste Rules)

1. When this crossed out wheeled bin symbol is depicted on the product and its operator's manual, it means the product is covered by the e-waste Management and Handling Rules , 2011 and are meant to be recycled, dismantled, refurbished or disposed off.
2. **Do's :**
   a. The product is required to be handed over only to the authorized recycler for disposal.
   b. Keep the product in isolated area, after it becomes non-functional/un-repairable so as to prevent its accidental breakage.

Don't :

a. The product should not be opened by the user himself/herself, but only by authorized service personnel.

b. The product is not meant for re-sale to any unauthorized agencies/scrap dealer/kabariwalah.

c. The product is not meant for mixing into household waste stream.

d. Do not keep any replaced spare part(s) from the product in exposed area.

3. Any disposal through unauthorized agencies/person will attract action under Environment (Protection) Act 1986.
4. "This product is complied with the requirement of Hazardous Substances as specified under Rule 13 (1) & (2) of the E-Waste (Management & Handling) Rules, 2011".
5. To locate a nearest collection centre or call for pick-up (limited area only) for disposal of this appliance, please contact Toll Free No. **1800-315-9999 / 1800-180-9999** for details. All collection centre and pick up facilities are done by third parties with **LG Electronics India Pvt. Ltd.** Merely as a facilitator.

   For more detailed information , please visit : http://www.lg.com/in

   9711709999 (LG WhatsApp No.)

अपने पुराने उपकरण का निपटान (ई–अपशिष्ट नियम के अनुसार)

1. जब इस काटे गये पहिये वाले बिन का चिह्न किसी उपकरण और इसके ऑपरेटर की पुस्तिका के साथ संलग्न होता हैं तो इसका मतलब है कि इसे ई–अपशिष्ट (प्रबंधन और हथालन) नियम 2011 के अन्तर्गत सम्मिलित किया गया है। और इसे नवीनीकरण, विघटन और निपटान के लिए बनाया गया है।
2. **करें :**

   क- उपकरण को सिर्फ अधिकृत पुनः नवीनीकरणकर्ता को ही निपटारण करने हेतु हस्तानान्तरित करें।

   ख- जब उपकरण कार्यारत न हो इसे अलग क्षेत्र में रखे ताकि उपकरण से होने वाली दुर्घटनाओ से बचा जा सके।

ना करें :

क- इस उपकरण को स्वयं/खुद नही खोलना चाहिए, उपकरण को केवल अधिकृत अधिकारी के द्वारा ही खोला जाना चाहिए।

ख- इस उपकरण को पुनः बिक्री के लिए किसी भी कबाड़ीवाला/भंगार वाला/अनाधिकृत संस्था को न दें।

ग- इस उपकरण को किसी घरेलू अपशिष्ट सामान के साथ मिलाकर न रखें।

घ- उपकरण के बदले हुए या आतरिक पूर्जो को खुले क्षेत्र में न रखें।

3. यदि किसी अनाधिकृत विभाग या व्यक्ति के द्वारा निपटारण किया जाता है तो यह पर्यावरण (सुरक्षा) धारा 1986 के अन्तर्गत आता है।
4. यह उत्पाद ई–अपशिष्ट (प्रबंधन और हथालन) नियम 2011 के अन्तर्गत 13(1) एवं (2) के तहत निर्दिष्ट खतरनाक पदार्थों की आवश्यकता का पालन करता है।
5. उपरोक्त पदार्थो के निपटारन के लिए नजदीकी निपटारन संस्थान (संकीर्ण क्षेत्र) में कॉल करें। अधिक जानकारी के लिए हमारे टोल फ्री नम्बर **1800-315-9999 / 1800-180-9999** पर कॉल करें। सभी संग्रहण केन्द्र व पिक-अप की सुविधाएं किसी थर्ड-पार्टी जो **LG Electronics India Pvt. Ltd.** को अपनी सेवाएं प्रदान कर रही हों, से करवाएं।

   अधिक जानकारी के लिए देखें वेबसाइट : http://www.lg.com/in

   9711709999 (LG WhatsApp No.)

Installation Check sheet

Customer Copy

Machine :_____ Job No : _____ Dt. of pur.:_____

Name Of Customer.: _____ M/C. S.No.:_____

Address:_____ Tel/Mob.:_____

Tick Appropriate (by Service Engineer)

S.No.	Check Point	Yes/No	Remarks
1	Physical condition of the Machine is satisfied?		
2	Electrical condition of household wiring / earthing for washing machine is proper?		
3	Advised to turn off machine after use?		
4	Explained Fixing of Inlet Hose Adapter to Tap?		
5	Explained Leg Adjustment & Common Conditions when Levelling Required?		
6	Explained not to use trolley/stand during the washing process? (It can cause excessive Vibrations/Noise)		
7	Explained cleaning of Lint, Inlet Valve Filter & Tub and the respective required cleaning frequencies?		
8	Explained regular check-up & Safety Instructions?		
9	Anti Rat Cover Installed?		
10	After installation check Inlet Hose, Drain Hose leakage & Machine Leveling?		
11	Explain clothes balancing & proper clothes separation for best wash?		
12	Demo of all features and specifications given to customer?		
13	Explained all types of errors?(IE,OE,UE,dE,PE,AE,FE,etc)		
14	Warranty terms explained?		

Signature Of Customer Date : Time:

Company Copy

Machine :_____ Job No : _____ Dt. of pur.:_____

Name Of Customer.: _____ M/C. S.No.:_____

Address:_____ Tel/Mob.:_____

S.No.	Check Point	Yes/No	Remarks
1	Physical condition of the Machine is satisfied?		
2	Electrical condition of household wiring / earthing for washing machine is proper?		
3	Advised to turn off machine after use?		
4	Explained Fixing of Inlet Hose Adapter to Tap?		
5	Explained Leg Adjustment & Common Conditions when Levelling Required?		
6	Explained not to use trolley/stand during the washing process? (It can cause excessive Vibrations/Noise)		
7	Explained cleaning of Lint, Inlet Valve Filter & Tub and the respective required cleaning frequencies?		
8	Explained regular check-up & Safety Instructions?		
9	Anti Rat Cover Installed?		
10	After installation check Inlet Hose, Drain Hose leakage & Machine Leveling?		
11	Explain clothes balancing & proper clothes separation for best wash?		
12	Demo of all features and specifications given to customer?		
13	Explained all types of errors?(IE,OE,UE,dE,PE,AE,FE,etc)		
14	Warranty terms explained?		

Name of ASC :_____ Installation Dt : _____ Installed by : _____

Customer Remarks If Any :_____

_____

I Here by certified by above Checks & Demo have been done to me with full of satisfaction and I am fully satisfied with the machine installation and performance of washing machine and I agree to take care of machine, suggestions (If Any) in respect of safety.

Signature Of Customer Date : Time:

For Best Use, Please Read the User's Manual Properly.

WARRANTY

The Washing Machine (hereinafter referred as product) comes with 2 year warranty on all parts (except Plastic parts, Consumables, Loose Plastic Parts, Filters, Inlet/outlet hose and top cover) and thereafter a 8 years additional warranty only on the inverter motor from the date of purchases on producing the tax paid invoice of the product provided always that the warranty card bears the rubber stamp, date and signature of our authorized dealer.

8 YEAR ADDITIONAL WARRANTY ON THE INVERTER MOTOR

The 8 Year warranty on the Inverter Motor will continue even after the expiry of 2 year period from the date of purchase. This warranty covers Motor. During the additional warranty period, it does not cover parts such as PCB Controller Assembly, Clutch assembly, Inlet Valve, Drain Motor etc. The standard visiting charges will be applicable within municipal limit of town where LG Electronics India Pvt. Ltd. (LGEIL) has its Authorized Service Centre, Service Outside municipal limit will attract to and fro travelling, other incidental expense in addition to standard visiting charges, as per the prevailing from time to time. During the additional warranty period only the parts replaced or repaired shall be free of costs, but service charges shall always be payable by the customer.

Common TERMS & CONDITIONs applicable for warranties as mentioned above:

1. The warranty is confined to the first purchaser of the Washing Machine only & is non-transferable.
2. Repairs & replacements will be carried out through the Authorized Service Centres of LG Electronics India Pvt Ltd. (hereinafter referred as LG or LGEIL). Customer may place their service call through the LG customer care or through the dealer from whom the product has been purchased. In case the customer shifts the place of residence during warranty period, it is advised to contact our helpline.
3. Repair under warranty shall be carried out by an authorized service personnel only. The details of centralized helplines are attached.
4. For units installed beyond municipal limits of the jurisdiction of company's Authorized Service Centre, it is responsibility of the purchaser to contact the nearest authorized service centre and bring the unit to the authorized service at its own cost and risk. All expense incurred in collecting the units or parts thereof from the company's authorized service centre, as well as expenses incurred with deputing of service personnel/technician toward conveyance and other incidentals etc. will be borne by the customer. Local charges for transportation and handling charges may vary from location to location. Customers are advised to verify before. In case the customer desires to bring the unit on its own to the Authorized Service Centre, the same shall be at its own risks & consequences.
5. The concerned authorized service centre will advise the customer whether to effect the repairs at site or at the authorized service centre.
6. Call registered with the centralized helpline/Authorized service centre, wherein only cleaning of the unit/parts in the unit due to dust accumulation on portions of the units are not to be considered as defects.
7. In case of repairs or replacement of any part/s of the unit, this warranty will thereafter continue and remain in force only for the unexpired period of the warranty. LGEIL may use parts that are new or refurbished and equivalent to new in performance and reliability. Replacement of parts would be purely at the discretion of LGEIL alone. In case the replacement of the entire unit is being made, (subject to the sole discretion of LGEIL), the same model shall be replaced and in the event such model has been discontinued, it shall be replaced with the model price equivalent at the time of purchase.
8. In case of any damage to the product/customer abuse/repairs by un-authorized personnel's/ misuse detected/ by the Authorized Service Centre personnel, the warranty conditions are not applicable and repairs will be done subject to availability of parts and on a chargeable basis only.
9. This warranty shall not cover any consequential or resulting liability, damage or loss to property or life arising directly or indirectly out of any defect being noticed in the equipment during warranty period of the Washing Machine. The company's obligation under this warranty shall be limited to repair or providing replacement of defective parts only under the warranty period.
10. The company or its Authorized Service Centre reserves the right to retain any part/s or component replaced its discretion, in the event of defect being noticed in the equipment during warranty period.
11. While the company will make every effort to carry out repairs at the earliest, it however is made expressly clear that the company is under no obligation to do so in a specified period of time.
12. Warranty does not cover accessories external to the equipment supplied by the dealer
13. In the event of any unforeseen circumstance, and spares not being available, the company's prevailing depreciation rules may apply on the purchaser to accept as a commercial solution in lieu of repairs.
14. If any coloured internal or external components are replaced, there will be no commitment to ensure that the shades match with the original or other components. The replaced shades, patterns, tints may vary from the customer's unit due to continuous usage of the unit. Any matching components changed at customer's request will be chargeable basis except the component which actually needed.
15. Free Installation or Demo of the product, can be availed only once & within 3 months from the date of purchase.
16. Any extended warranty offered by LGEIL has to be supported by relevant proof.
17. Warranty shall expire after the warranty period as mentioned above even if the Washing Machine may not be in use for any time during the warranty period for any reason.
18. Only courts in state of Delhi and places where LGEIL has its branch office shall have the jurisdiction for settling any claims, disputes arising under the warranty.

19. Warranty is not applicable in any of the following cases where :

a) The warranty card is not completed properly at the time of purchase.
b) The completed warranty card is not presented to authorized service personnel at the time of service of the product.
c) The product is not operated according to instructions given in the Operating Instruction Booklet/Owner's Manual.
d) The product is used for commercial purposes
e) The product is used at anyplaces such as public bathroom, lodging house, training center, dormitory etc.)
f) The product has failed under certain conditions like waterlogging , flood , fire , misuse etc.
g) Defects/malfunction are caused by improper or reckless use, which shall be determined by the company personnel.
h) Any repair work is carried out by persons other than authorized service personnel.
i) Defect/malfunction are caused which are beyondcontrol like lightening,abnormal voltage,Acts of God, virus etc.
j) Any issue caused by usage of third party product like voltage stablizer,power socket-outlet, MCB, extension board etc.
k) Defects/malfunction caused while in transit to service centre or purchaser's residence.
l) Defects caused by rodents bite or by pests and vermin ants/Insects/animals/birds etc.
m) The serial number is deleted, defected or altered.
n) Damage is caused to the product or any part/s due to transportation or shifting
o) Any accessory external to the equipment are supplied by dealer or LG.

CUSTOMER'S DETAILS

MODEL No. :

SERIAL No. :

DATE OF PURCHASE :

CUSTOMER'S NAME & ADDRESS

TEL.

DEALER'S NAME & ADDRESS

TEL.

Customer's Signature

Dealer's Signature

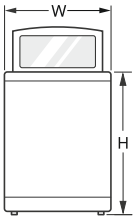
Features & Specifications

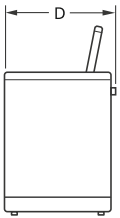
Feature and Specification																			
Model	Wash⊕ Capacity (kg)	Normal (Y/N)	Pre Wash+ Normal (Y/N)	Air Dry (Y/N)	Child Lock (Y/N)	Inlet Water Temperature (Option)	Water Level Selection	Castors (Y/N)	Aqua Reserve (Y/N)	Turbo Wash (Y/N)	Delay (Y/N)	Quick Wash (Y/N)	Strong (Jeans) (Y/N)	Tub Clean (Y/N)	Soak Wash (Y/N)	Soil Level (Y/N)	Gentle (Wool/Saree) (Y/N)	Weight (kg)	Dimension (W X D X H) mm
T65SJ*	6.5	Y	Y	Y	Y	Cold	10	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	31.5	540 X 560 X 885
T70SJ*	7.0	Y	Y	Y	Y	Cold	10	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	32	540 X 560 X 925
T75SJ*	7.5	Y	Y	Y	Y	Cold	10	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	32	
T80SJ*	8.0	Y	Y	Y	Y	Cold	10	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	32	
T90SJ*	9.0	Y	Y	Y	Y	Cold	10	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	39	590 X 625 X 965
T10SJ*	10.0	Y	Y	Y	Y	Cold	10	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	39	
T65SN*	6.5	Y	Y	Y	Y	Cold	10	N	Y	N	Y	Y	Y	Y	Y	N	Y	31.5	540 X 560 X 885
T70SN*	7.0	Y	Y	Y	Y	Cold	10	Y	Y	N	Y	Y	Y	Y	Y	N	Y	32	540 X 560 X 925
T80SN*	8.0	Y	Y	Y	Y	Cold	10	Y	Y	N	Y	Y	Y	Y	Y	N	Y	32	540 X 560 X 925
T65SP*	6.5	Y	Y	N	Y	Cold	6	N	Y	N	Y	Y	Y	Y	Y	N	Y	31.5	540 X 560 X 885
T70SP*	7.0	Y	Y	N	Y	Cold	6	Y	Y	N	Y	Y	Y	Y	Y	N	Y	32	540 X 560 X 925
T75SP*	7.5	Y	Y	N	Y	Cold	6	Y	Y	N	Y	Y	Y	Y	Y	N	Y	32	540 X 560 X 925
T80SP*	8.0	Y	Y	N	Y	Cold	6	Y	Y	N	Y	Y	Y	Y	Y	N	Y	32	540 X 560 X 925
T7288*	6.2	Y	Y	N	Y	Cold	6	N	Y	N	Y	Y	Y	Y	Y	N	Y	31.5	540 X 560 X 885

⊕ **Wash Capacity** - means maximum amount of dry cotton clothes that can be washed.

Water Tap Pressure should be between 50 -800 kPa.

❊ In our continuing effort to improve the quality of our appliances, it may be necessary to make changes to the appliance without revising this manual.





LG
Life's Good

MFL68486520

LG 24 x 7 CUSTOMER CARE

1800-315-9999
1800-180-9999
(Toll Free)

5757554
(Send SMS)

www.lg.com/in/support

LG WhatsApp No.
9711709999

LG Service India Mobile App
Available at Google Play

www.facebook.com/lgindiapage/

www.twitter.com/LGIndia

To know more about LG,
visit www.lg.com/in

For Corporate/Institutional enquiries,
please write to corp.enquiries@lge.com

Regd. Office: LG Electronics India Pvt. Ltd., A-24/6, Mohan Cooperative Industrial Estate, Mathura Road, New Delhi-110044 CIN NO. U32107DL1997PTC220109