

WASHING MACHINE SERVICE MANUAL

A CAUTION

READ THIS MANUAL CAREFULLY TO DIAGNOSE PROBLEMS CORRECTLY BEFORE SERVICING THE UNIT.

MODEL: WT7200C*

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SAFETY PRECAUTION!

IMPORTANT SAFETY NOTICE!

This Service information is intended for individuals possessing adequate backgrounds of electrical, electronic, and mechanical experience. Any attempt to repair this appliance may result in personal injury or property damage. The manufacturer or seller can not be responsible for the interpretation of this information, nor can it assume any liability in connection with its use.

ANNING: To reduce the risk of fire, electric shock, or personal injury when using this appliance, follow basic precautions, including the following:

- Wear gloves when working.
 Failure to do this can result in serious injury.
- The appliance is heavy. Two or more people is required when moving the appliance.
 There is a risk of serious back injury or other injuries.
- Certain internal parts are intentionally not grounded and may present a risk of electric shock only during servicing. Service personnel Do not contact the following parts while the appliance is energized: Pump bracket, rotor, and heater
- Disconnect this appliance from the power supply before servicing. Turning the controls to the off position does not disconnect this appliance from the power supply.
 Failure to do this can result in shock.
- Reconnect all grounded devices after servicing. Failure to do this can result in shock.

To reduce the risk of fire, electric shock, or personal injury when using this appliance, follow basic precautions, including the following.

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1. SPECIFICATIONS

Model	WT7200C*
Electrical	120VAC@60Hz.
Inner Tub	Stainless
Inlet Water Pressure	14.5 ~ 116 psi(100 ~ 800 kPa)
Rating of Fuse	120V/60Hz
Spin Speed	950 ± 50
Weight	146.9 lbs (66.5kg)
Cycles	Normal, Heavy Duty, Bedding, Waterproof Normal Pre Wash+, Delicates, Speed Wash, Downloaded
Time Delay	1 – 19 Hr
Lid Interlock Switch	Magnet Sensor
Control Lock	Yes
Softener Dispenser	Yes
Detergent Dispenser	Yes
Bleach Inlet	Yes
Auto Power Off	Yes
Smart Rinse™with Jet Spray	Yes
Heater	No

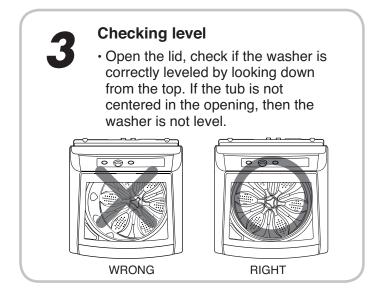
2. INSTALLATION INSTRUCTIONS

2-1. HOW TO ADJUST LEVEL

Installation area

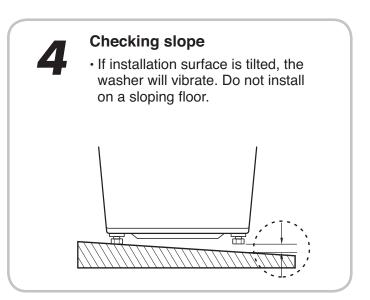
Install the washer on a firm, flat surface.

If the washer is installed on an unsuitable floor, it could make considerable noise and vibrate.



Set Leveling feet

• Loosen the locknuts on 2 front leveling feet until you can turn the feet with the included wrench. Turn clockwise to raise the washer or counterclockwise to lower it.



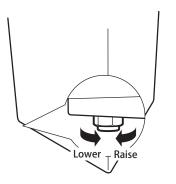
No shims. It would be dangerous. If the floor is that far from being level, it is a floor problem and not a washer problem.

ACAUTION

- The ventilating openings in the base area must not be obstructed by carpeting.
- Install the washing machine on a level and firm surface. There should be no more than 1° of variation.
- Wooden floors may need reinforcing to prevent the normal vibration which occurs with an unbalanced load.
- Do not install the washer on an inclined floor. Improper installation of the washer may cause noise and malfunctioning.

Horizontal setting Lift the front of the

 Lift the front of the washer and adjust level by turnings the adjustable legs clockwise or using the adjusting plate.



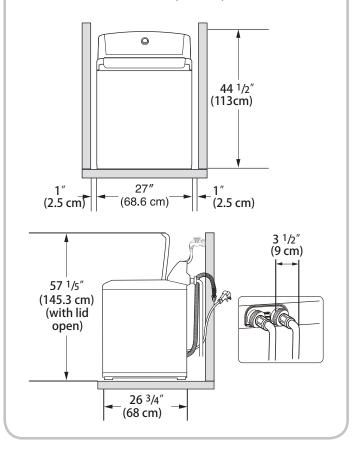
Confirming level

• Place the washer in original position, confirming the level.



Distance between the drain hose and the wall

 Distance between the drain hose and the wall should be more than 4 inches (10 cm,) and the distance between any other part and the wall should be more than 1 inches (2.5 cm.)



- Do not install the washer in the following places.
- Where the washer is exposed to direct sunlight.
- Near a heater or heating appliance.
- Where the washer is exposed to freezing temperatures.
- In damp environments such as bathrooms or harmful environments.

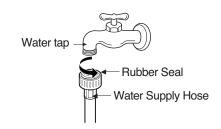
2-2. CONNECTING WATER SUPPLY HOSE

Before connecting the water supply hose to the water tap, check the hose type and then choose the correct instruction here below.

Screw Type

1 Attach the water supply hose to the tap.

Push the water supply hose up so that the rubber packing within the hose can adhere completely to the tap.



2 Connect the water supply hose to the tap.

Connect the water supply hose to the tap and then tighten it by screwing it to the right.

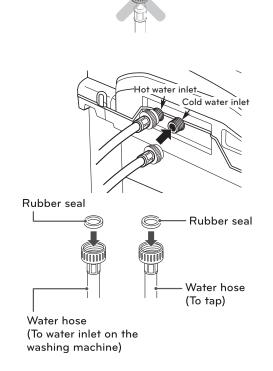


3 Check water leakage.

After connecting the hose, open the tap to check for any water leakage.

Connecting Water Supply Hose to the Machine

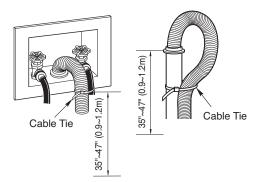
- Connect the water supply hose to inlet valve of the washing machine, and then lock it by turning the hose connecting part.
- Check to see if there is a rubber seal inside the connector.
- A new washing machine should be installed with newhoses. The old hoses should not be reused.
- · Replace hoses every 5 years.



2-3. CONNECT THE DRAIN HOSE

Insert the end of the drain hose into the drain.

• If the drain is large enough for the flange on the hose to fit inside, then do not insert the flange more than 1-2 inches into the drain.



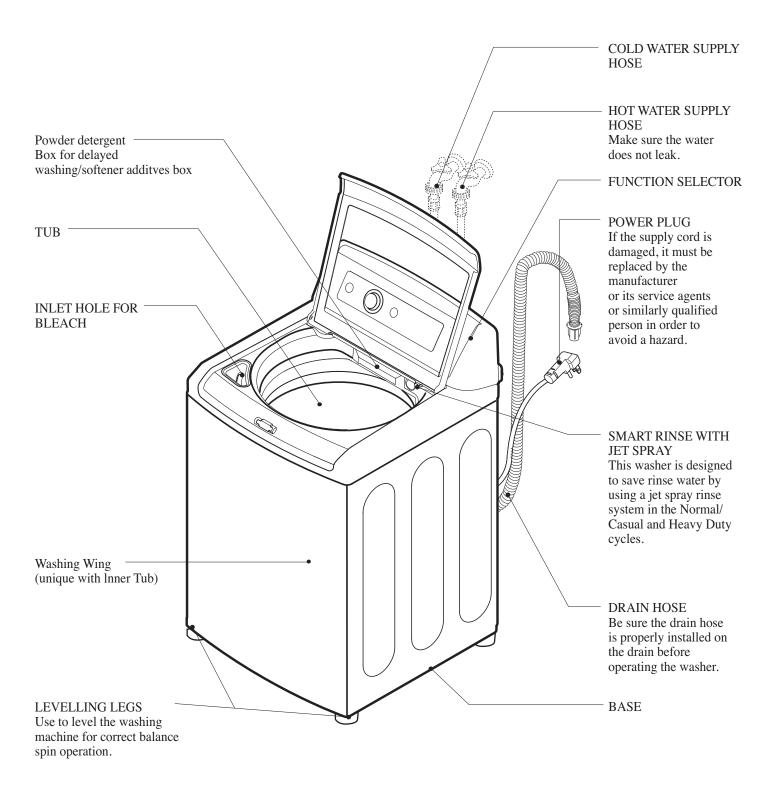
- **NOTE : •** The drain hose should always be properly secured to the drain or standpipe. Failure to secure the drain hose properly can result in flooding and property damage.
 - The end of the drain hose should be placed 39" (99 cm) above the floor.
 - The drain must be installed in accordance with any applicable local codes and regulations.
 - Make sure that the water lines are not stretched, pinched, crushed, or kinked.
 - Do not insert the drain hose more than 12" (30 cm) into the drain pipe to avoid siphoning and odor build-up.

AWARNING:

- The washer should never be installed or stored in a location subject to freezing temperatures. If the washer was exposed to freezing temperatures prior to installation, allow it to stand at room temperature for several hours before use. Damage to the water lines and internal mechanisms of the washer can result.
- Water supply pressure must be between 20 ~ 120 psi(138 ~ 827 kPa) If the water supply pressure is more than 120 psi, a pressure reducing valve must be installed. If you have uncontrolled water temperature and pressure you should fit a temperature and pressure relief valve to ensure that water temperature and water pressure remain within the safe limits. Consult a plumber or electrician if you are unable to adjust water temperature and or pressure. Failure to do so can result in damage to the machine.
- Plug the power cord of washer into a properly grounded outlet. Failure to do this can result in shock or serious injury.

3. OPERATING INSTRUCTION

3-1. IDENTIFICATION OF PARTS



3-2. BEFORE STARTING TO WASH

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, water temperature, and spin speed.



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)
 LINT (Lint producers, Collectors)
 Lint Producers
 Separate white fabrics from colored fabrics.
 Separate lint producers and lint collectors.
 Terry cloth, Chenille, Towels, Diapers

Lint Collectors Synthetics, Corduroy, Permanent Press, Socks



Check before Loading

- Check all pockets to make sure that they are empty. 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 any paper or tissue in the pockets.
- underwire

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 powdered 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 page 14-15)

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 no higher than the top row of holes in the washer tub. To add items after washer has started, press the **Start** button and submerge additional items. Close the lid and press the Start button again to restart.

* Do not wash waterproofed fabrics (such as skiing outfits, diapers, or nappy auto seat covers.)

Light and Large-sized clothing

Clothes like downs and woolens are lightweight, 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.

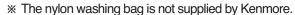
* Do not wash water-proof textilles (Skling outfit, baby diaper, nappy automobile seat covers.)

Long laundry items

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



reserved. Only training and service purposes.





1) Using Water

Water Temperature

- The machine sets the appropriate temperature automatically according to the wash program.
 You can override the preset selection by pressing the water temperature icon. Touch the arrow buttons up or down until your desired temperature setting is displayed.
- The temperature of the water impacts the effectiveness of all laundry additives and therefore, the cleaning results.
- We recommend temperatures of:
- HOT 120°F (120-140°F) White items, diapers, underclothing and heavily soiled, colorfast items.
- WARM 90°F (85-105°F) Most items
- COLD 66°F (65-75°F) Only very bright colors with light soil.
- When washing in COLD water additional steps may be needed:
- Adjust detergent amount and pre-dissolve detergent in WARM water
- Pretreat spots 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 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.

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.

2) 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

Your washing machine is designed for use with only High-Efficiency (HE) detergents. HE detergents are formulated specifically for top-load washers and contain suds-reducing agents. Always look for the HE symbol when purchasing detergent. HE detergents produce fewer suds, dissolve more efficiently to improve washing and rinsing performance, and help to keep the interior of your washer clean. Using a regular detergent will cause unsatisfactory performance, oversudsing, machine build-up, and could damage the machine.

Using the Liquid Bleach Dispenser

The bleach dispenser automatically dilutes and dispenses liquid chlorine bleach at the proper time in the wash cycle.

- 1. Check clothing care labels for special instructions.
- 2. Measure liquid bleach carefully, following instructions on the bottle.
 - Never pour undiluted liquid chlorine bleach directly onto clothes or into the wash basket.
 - Do not pour powdered bleach into bleach dispenser.
 - Avoid overfilling or splashing when adding bleach to the dispenser. The maximum capacity of the bleach dispenser is one cup of bleach per wash cycle. Overfilling could result in premature dispensing of bleach.
 - Do NOT add more bleach than is required for your particular load.
- 3. Before starting the washer, pour measured amount of bleach directly into bleach dispenser. If you prefer to use powdered bleach, add it into the wash basket directly before adding clothes.

ARNING Do NOT mix chlorine bleach with ammonia or acids, such as vinegar or rust / scale remover. Mixing chemicals like these can produce irritating and toxic fumes. Put the manufacturer's recommended amount of undiluted liquid chlorine bleach into the bleach dispenser. During the final portion of the wash cycle, two sequential flushes of the dispenser put all the bleach into the wash load and completely flush the dispenser to eliminate the carryover of bleach to a subsequent load. Any liquid remaining in the bleach dispenser at the end of the cycle is water, not bleach. To prevent unintentional self-siphoning of the bleach, never fill the dispenser higher than the maximum fill level marked on the dispenser. When adding bleach to the dispenser, be careful to avoid spilling it into the laundry load or leaving droplets of bleach around the dispenser. These things will damage your laundry items.

Using the Dispenser Drawer

ABOUT THE DISPENSER

The automatic dispenser consists of two compartments which hold:

- · Liquid fabric softener.
- · Liquid or powdered detergent.

All laundry products can be added at once in their respective dispenser compartments. They will be dispensed at the appropriate time for the most effective cleaning.

After adding the laundry products to the dispenser.

After adding the laundry products to the dispenser, close the dispenser drawer.

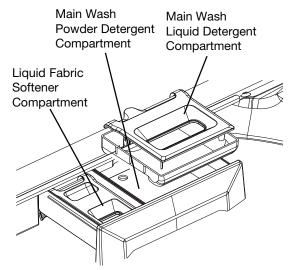
Close the dispenser drawer gently to avoid spilling or starting the siphoning action.

To add detergent, bleach, and fabric softener to the automatic dispenser:

- Open the dispenser drawer.
- Load the laundry products into the appropriate compartments.
- Close the lid slowly and smoothly to avoid spilling, splashing, or premature dispensing of the contents.

NOTE: It is normal for a small amount of water to remain in the dispenser compartments at the end of the cycle.

NOTE: Do not use powdered or liquid bleach in the dispenser drawer.



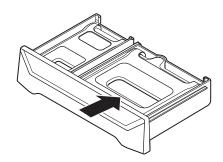
Adding Detergent

Add measured detergent to the detergent compartment of the dispenser drawer.

· Do not exceed the maximum fill line.

Detergent is flushed through the dispenser at the beginning of the wash cycle. Either powdered or liquid detergent can be used, but the drawer insert must be removed to use powder.

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.



Adding Fabric Softener

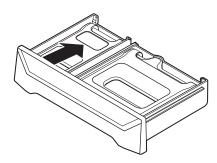
Pour the recommended amount of liquid fabric softener into the left-hand compartment. Use only liquid fabric softener.

Dilute with water to the maximum fill line.

· Do not exceed the maximum fill line.

Overfilling can cause early dispensing of the fabric softener, which could stain clothes.

NOTE: Do not pour fabric softener directly on the wash load. It may stain the clothes.



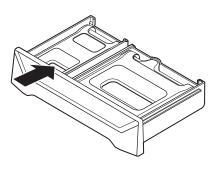
Adding Wash Boost Additives

The wash boost dispenser may be used to clean heavily soiled or stained garments more efficiently.

If desired, place the additives for the wash boost setting in the right-hand compartment. Use only liquid additives.

 Do not exceed the maximum fill line to avoid detergent buildup In clothing and the washer

Overfilling can cause early dispensing of presoak additives, which could result in damaged clothes.



NOTE: Do not pour additives directly on the wash load. It may stain the clothes.

3) 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 the home. Vapors can explode on contact with flames or sparks.

For successful stain removal:

- · Remove stains promptly.
- Determine the kind of stain, then follow the recommended treatment in the stain removal chart below.
- To pretreat stains, use a prewash product, liquid detergent, or a paste made from powdered detergent and water.
- Use COLD water on unknown stains because HOT water can set stains.
- · Check care label instructions for treatments to avoid on specific fabrics.
- · Check for colorfastness by testing stain remover on an inside seam.
- · Rinse and wash items after stain removal.



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	Soak the item in a bowl of COLD water for at least 30 minutes. Then launder as usual.			
Candle wax, crayon	Remove all surface wax. Put the garment in the freezer for a couple of hours, then remove and break away as much wax as possible. Try a commercial removal product like Goo-Gone, Goop, or Go-Jo cleaner for the remaining wax stains. DO NOT ATTEMPT TO REMOVE WITH HEAT!			
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 HOT 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 AND VARNISH Use solvent recommended on can label. Rinse throughly 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 powdered detergent and water. Apply paste and 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.			

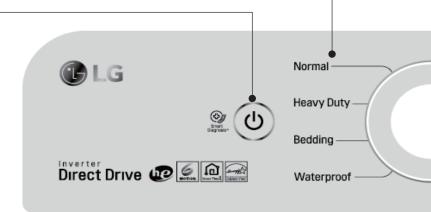
3-3. FUNCTION OF EACH BUTTON

POWER

- · Power on.
- · Push again, power goes off
- Power goes off automatically after the wash is finished.
- After turning the power on, the unit will automatically turn off if nothing is selected.

CYCLE BUTTON

- Use for selecting wash program.
- This button allows the selection of 8 different programs for different kinds of laundry and dirtiness.
- Program selections light up in sequence as follows: Normal→Heavy Duty→Bedding→Waterproof
- →Pre Wash+ Normal→Delicates→Speed Wash
- →Downloaded Select the desired program by ressing the button.



Custom Program BUTTON

 This button allows you to store a customized wash cycle for future use.

DELAY WASH (Selection) BUTTON

- Delayed finishing time.
- The time increases when the button is pushed.
- The following settings are indicated as the button is pushed 1
 → 2 →3 →4 → ... 24→
 - → Reservation off Ø 1 ...
- → Reservation off ⊠ 1 ...
- To cancel delay time, turn the power switch off or push DELAY WASH button until off.

WASH / TEMP.

- Select to select Water (Wash/Rinse) Temperature.
- Pressing the button allows
 The selection of TAP COLD
 →COLD →SEMI WARM
 - →WARM →HOT respectively. Default setting is Warm/Cold.

Note

The time shown on the display is the estimated cycle time. If the sensors and microprocessor elect to make changes during the cycle, the display will be adjusted accordingly.

START/PAUSE BUTTON

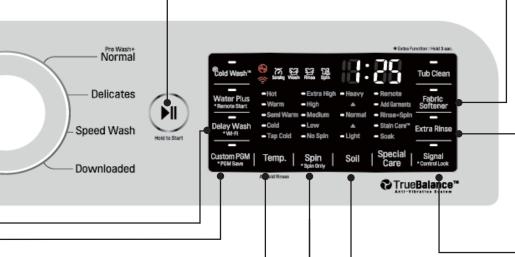
- · Use to start or pause the wash cycle.
 - Changes while be made to the wash settings while the machine is paused.
- Repeats start and pause by pushing the button.

FABRIC SOFTENER

 Causes the dispensing of fabric softener in the final rinse cycle.

EXTRARINSE BUTTON

 This includes an extra rinse cycle for a better rinsing action.



SPIN SPEED

 Spin speed can be selected from No Spin to Extra high.
 Default is Low.

SOIL LEVEL

- · Allows a selection to be make for the strength of the wash action.
- Power option selections light up in sequence as follows Normal →Heavy
 → Light → Normal as the button is pushed.

This can be selected for any program.

- · Adjustment can be made while washing.
- · Default SOIL LEVEL is Normal.

SIGNAL BUTTON

- The beeper sounds at the end of the cycle. The clothing should be removed at that time to prevent the setting of wrinkles.
- Touch the SIGNAL button to cycle through the volume settings between OFF and high.

CHILD LOCK FUNCTION

- Use to lock or unlock the control buttons to prevent settings from being changed.
- To actuate or release the CHILD LOCK, press and hold the SIGNAL button until the lock is turned ON or OFF.

3-4. WASHING PROGRAMS

CYCLE GUIDE

The cycle guide below shows the default settings, available options and recommended fabric types for each cycle. Allowable modifier adjustments are shown below the default setting for each cycle.

Default Setting

Cycle	Fabric or Load Type	Wash Temp.	Spin Speed		Soak	Stain Care™	Cold Wash™	Extra Rinse	Water Plus	Fabric Softener
Normal	Cotton, linen,	Hot	Extra high	Heavy						
	towels, shirts,	Warm	High							
	sheets, jeans,	Semi Warm	Medium	Normal						
	mixed loads	Cold								
		Tap cold	No spin	Light						
Heavy Duty	Heavily soiled	Hot	Extra high	Heavy						
	cotton fabrics	Warm	High							
		Semi Warm	Medium	Normal						
		Cold	Low							
		Tap cold	No spin	Light						
Bedding	Large items such		110 00111	Heavy						
beduing		Warm		lilouvy						
	comforters	Semi Warm	Medium	Normal						
	Commontoro	Cold		INUIIIIai						
			Low	liaht						
	. I I H D I - I'-	Tap cold	No spin	Light		A la a al alta a		1: - 1		1:((:1).
	* Use the Bedding	g cycle for iten	ns such as piii	IOWS, COIIII(orters, pe	et bedaing	and other	articles	wnich na	ve aimcuit)
	absorbing water.									
	may not be enoug									
A/ 1 C	smaller clothing it	ems. Fallure to	Tollow these		may res	Buit in darr	lage to the	Ciotning	JOTEO EN	e wasner.
Waterproof	Waterproof or			Heavy						
	water resistant	Warm								
	items: mattress	Semi Warm		Normal						
	covers, outdoor	Cold	Low							
	clothing, plastic	Tap cold	No spin	Light						
		liab cold	lito obiii	Ligiti						
	mats, etc. (less	Γαρ σοια	TVO OPIT	Ligiti						
	mats, etc. (less than 14 lb.)	·		Ligiti						
	mats, etc. (less than 14 lb.) Towels, shirts,	Hot	Extra high	Ligitt						
	mats, etc. (less than 14 lb.) Towels, shirts, sheets, jeans,	Hot Warm	Extra high High							
	mats, etc. (less than 14 lb.) Towels, shirts,	Hot Warm Semi Warm	Extra high High	Normal	•			•	•	•
	mats, etc. (less than 14 lb.) Towels, shirts, sheets, jeans,	Hot Warm	Extra high High		•			•	•	•
	mats, etc. (less than 14 lb.) Towels, shirts, sheets, jeans,	Hot Warm Semi Warm	Extra high High Medium		•			•	•	•
Normal	mats, etc. (less than 14 lb.) Towels, shirts, sheets, jeans,	Hot Warm Semi Warm Cold	Extra high High Medium Low	Normal	•			•	•	•
Normal	mats, etc. (less than 14 lb.) Towels, shirts, sheets, jeans, mixed loads	Hot Warm Semi Warm Cold Tap cold	Extra high High Medium Low	Normal Light	•			•	•	•
Normal	mats, etc. (less than 14 lb.) Towels, shirts, sheets, jeans, mixed loads Dress shirts/blouses, nylons,	Hot Warm Semi Warm Cold Tap cold Warm	Extra high High Medium Low	Normal Light Heavy	•			•	•	•
Normal	mats, etc. (less than 14 lb.) Towels, shirts, sheets, jeans, mixed loads Dress shirts/ blouses, nylons, sheer or lacy	Hot Warm Semi Warm Cold Tap cold Warm Semi Warm	Extra high High Medium Low No spin	Normal Light	•			•	•	•
Normal	mats, etc. (less than 14 lb.) Towels, shirts, sheets, jeans, mixed loads Dress shirts/blouses, nylons,	Hot Warm Semi Warm Cold Tap cold Warm Semi Warm Cold	Extra high High Medium Low No spin	Normal Light Heavy Normal	•			•	•	•
Normal Delicates	mats, etc. (less than 14 lb.) Towels, shirts, sheets, jeans, mixed loads Dress shirts/ blouses, nylons, sheer or lacy items (less than 8 lb.)	Hot Warm Semi Warm Cold Tap cold Warm Semi Warm	Extra high High Medium Low No spin Low No spin	Normal Light Heavy Normal Light	•			•	•	•
Normal Delicates	mats, etc. (less than 14 lb.) Towels, shirts, sheets, jeans, mixed loads Dress shirts/ blouses, nylons, sheer or lacy items (less than 8 lb.) Lighly soiled	Hot Warm Semi Warm Cold Tap cold Warm Semi Warm Cold Tap cold	Extra high High Medium Low No spin Low No spin Extra high	Normal Light Heavy Normal	•			•	•	•
Normal Delicates	mats, etc. (less than 14 lb.) Towels, shirts, sheets, jeans, mixed loads Dress shirts/ blouses, nylons, sheer or lacy items (less than 8 lb.) Lighly soiled	Hot Warm Semi Warm Cold Tap cold Warm Semi Warm Cold Tap cold Warm	Extra high High Medium Low No spin Low No spin Extra high High	Normal Light Heavy Normal Light Heavy	•			•	•	•
Normal Delicates	mats, etc. (less than 14 lb.) Towels, shirts, sheets, jeans, mixed loads Dress shirts/ blouses, nylons, sheer or lacy items (less than 8 lb.) Lighly soiled	Hot Warm Semi Warm Cold Tap cold Warm Semi Warm Cold Tap cold Warm Semi Warm Semi Warm	Extra high High Medium Low No spin Low No spin Extra high High Medium	Normal Light Heavy Normal Light	•			•	•	•
Normal Delicates	mats, etc. (less than 14 lb.) Towels, shirts, sheets, jeans, mixed loads Dress shirts/ blouses, nylons, sheer or lacy items (less than 8 lb.) Lighly soiled	Hot Warm Semi Warm Cold Tap cold Warm Semi Warm Cold Tap cold Warm Semi Warm Cold Cold Warm Semi Warm Cold	Extra high High Medium Low No spin Low No spin Extra high High Medium Low	Normal Light Heavy Normal Light Heavy Normal	•			•	•	
Normal Delicates Speed Wash	mats, etc. (less than 14 lb.) Towels, shirts, sheets, jeans, mixed loads Dress shirts/ blouses, nylons, sheer or lacy items (less than 8 lb.) Lighly soiled and small loads	Hot Warm Semi Warm Cold Tap cold Warm Semi Warm Cold Tap cold Warm Semi Warm Semi Warm	Extra high High Medium Low No spin Low No spin Extra high High Medium Low	Normal Light Heavy Normal Light Heavy	•			•	•	•
Pre Wash+ Normal Delicates Speed Wash Downloaded	mats, etc. (less than 14 lb.) Towels, shirts, sheets, jeans, mixed loads Dress shirts/ blouses, nylons, sheer or lacy items (less than 8 lb.) Lighly soiled and small loads The downloaded	Hot Warm Semi Warm Cold Tap cold Warm Semi Warm Cold Tap cold Warm Semi Warm Cold Cold Warm Semi Warm Cold	Extra high High Medium Low No spin Low No spin Extra high High Medium Low	Normal Light Heavy Normal Light Heavy Normal	•			•	•	•
Normal Delicates Speed Wash	mats, etc. (less than 14 lb.) Towels, shirts, sheets, jeans, mixed loads Dress shirts/ blouses, nylons, sheer or lacy items (less than 8 lb.) Lighly soiled and small loads The downloaded cycle (See page	Hot Warm Semi Warm Cold Tap cold Warm Semi Warm Cold Tap cold Warm Semi Warm Cold Cold Warm Semi Warm Cold	Extra high High Medium Low No spin Low No spin Extra high High Medium Low	Normal Light Heavy Normal Light Heavy Normal	•			•	•	•
Normal Delicates Speed Wash	mats, etc. (less than 14 lb.) Towels, shirts, sheets, jeans, mixed loads Dress shirts/ blouses, nylons, sheer or lacy items (less than 8 lb.) Lighly soiled and small loads The downloaded	Hot Warm Semi Warm Cold Tap cold Warm Semi Warm Cold Tap cold Warm Semi Warm Cold Cold Warm Semi Warm Cold	Extra high High Medium Low No spin Low No spin Extra high High Medium Low	Normal Light Heavy Normal Light Heavy Normal	•			•	•	
Delicates Speed Wash	mats, etc. (less than 14 lb.) Towels, shirts, sheets, jeans, mixed loads Dress shirts/ blouses, nylons, sheer or lacy items (less than 8 lb.) Lighly soiled and small loads The downloaded cycle (See page	Hot Warm Semi Warm Cold Tap cold Warm Semi Warm Cold Tap cold Warm Semi Warm Cold Cold Warm Semi Warm Cold	Extra high High Medium Low No spin Low No spin Extra high High Medium Low	Normal Light Heavy Normal Light Heavy Normal	•			•	•	

3-5. CARE AND MAINTENANCE

When There Is The Possibility Of Freezing Temperatures

- Close the water taps and remove the water supply hoses.
- Remove the water which remains in the water supply.
- Lower the drain hose and drain the water in the sump and the drain hose by running a spin cycle.

If Frozen

- Remove the water supply hose and immerse it in HOT water. (40° C or 104° F).
- at least 10 minutes.
- Connect the water supply hose to the water tap Run an Express Wash cycle to confirm that the machine fills, drains, and operates properly.

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. Avoid hitting 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 clean the inside of your washer occasionally as described below.

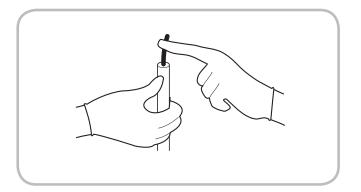
- Fill your washer with HOT water.
- Add 1 cup of bleach.
- Let it operate for several minutes.
- Stop the washer, open the lid, and leave it to soak overnight.
- After soaking, drain the washer and run it through a normal cycle.

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. gasoline, kerosene, 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.

4. SERVICE INFORMATION

4-1. DISASSEMBLY INSTRUCTION











▶ Be sure to unplug the power to repair and replace electric parts.

ESD (ElectroStatic DIscharge) WARNING

Be sure to follow proper ESD and grounding precautions for diagnosis and repair. If this is not possible, touch the ground wire on a regular basis to remove any static charge built up on your person.

- 1) Remove front panel and main PCB assembly
- 1) Remove 5 panel screws attaching the panel on the back.
- 2 Disassemble rear panel.

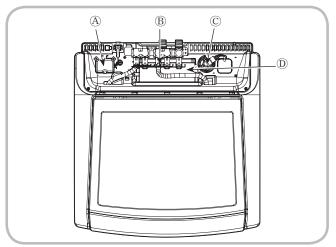
- ③ Pull the front panel back.
 Remove 1 screw on the protect cover.
- 4 Disassemble the protective cover.
- (5) Disconnect the leads from the controller.
- 6 Remove 7 screws on the PCB assembly.
- 7 Remove the PCB assembly.

A Caution

If PCB and Front panel are not correctly assembled, the light can be spread.



When assembling the PCB and Front panel by pushing the PCB to the upper and check the Segment seated. After assembly check the light spread.

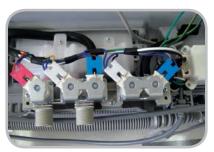


2) Disassembly of the Noise Filter, Power Cord, Inlet Valve, Pressure Switch, and Dispenser Housing.



Noise Filter and Power Cord

- 1) Remove the two screws attaching the noise filter.
- ② Disconnect both connectors in the noise filter. Remove the power cord from the noise filter.



Inlet Valve

- ① Disconnect the leads from the inlet valve and remove three screws.
- ② Remove the hoses and output pipes from the input valve.
- 3 Remove the inlet valve.



Pressure Switch

- ① Disconnect the leads from pressure switch and detatch the pressure switch from the machine.
- ② Disconnect the pressure tube from the pressure switch.



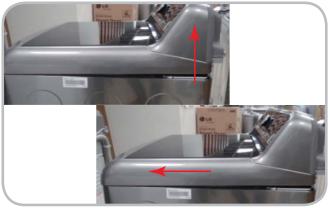
Dispenser Housing

- ① Remove the hoses and output pipes from the input valve.
- ② Disassemble the connector pipe and the dispenser housing.

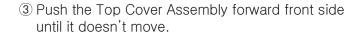


3) Disassembly of Top Cover

① Remove 2 screws attaching the back side of top cover.



2 Lift the top cover at the back of the washer

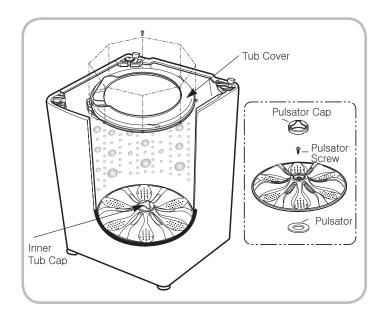


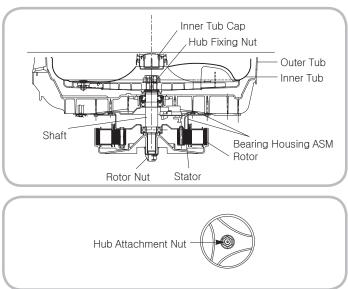


- 4 Push each side of cabinet to remove from side holders. If remove top cover from all of side holder, lift the top cover.
- (5) Use the blade to push the left hinge out of the way and to displace the hinge pin to remove the lid.



- 6 Remove 1 Screw, Cover, and Safety from the Cabinet
- ⑦ According to the environment, place the Top cover on the floor at the side or back of the washer.





4) Disassembly of Tub Cover and Pulsator

- ① Remove 8 screws, separate hooks fixed with upper of outer tub and take off the tub cover.
- 2 Remove the pulsator cap.
- 3 Remove the pulsator screws.
- 4 Remove the pulsator washer.

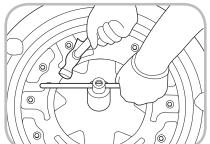
5) Assemble the service tool (38 mm wrench)

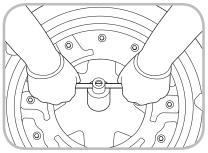




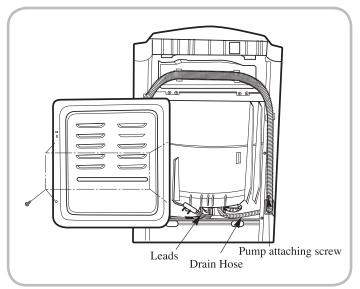


6) Remove the hub attachment nut. (38 mm)





☐ Hit the bar using the hammer. ☐ Disconnect hub nut and disassemble the inner tub.



7) Disassembly of the Back Cover and Drain Pump

- Remove the screws that attach the back cover and take it off.
- Disconnect the leads and the drain hose from the drain pump.
- Remove the pump attachment screws and the lead connector. Take the pump assembly out of the washer.



8) Disassembly of Damper Assembly

- ① Remove the top cover and the back cover of the washing machine.
- ② Pull out the hinge which connect the horizontal damper with outer tub. (To disassembly the horizontal damper, take the horizontal damper out of the holder.)

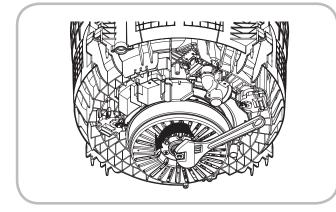


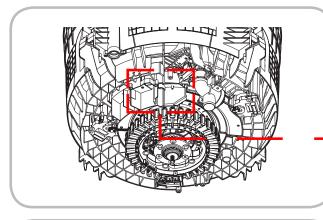
- 3 As shown in the drawing, lift the damper assembly and remove it along with the outer tub assembly.
- 4 Damper assembly shall not be disassembled. Replace damper as assembly.

9) Disassembly of Rotor and Stator

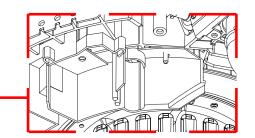
- Use a wrench (M24) to remove the nut that connects the rotor to the shaft.

 (The torque should be 200 kgf/cm or 88 footpounds.)
- Remove the rotor by pulling it straight off the splined shaft.

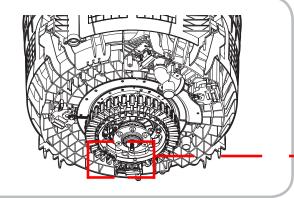


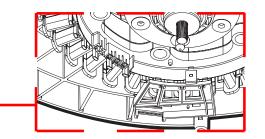


3 Remove the screws that secure the water guide.

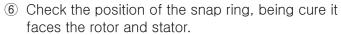


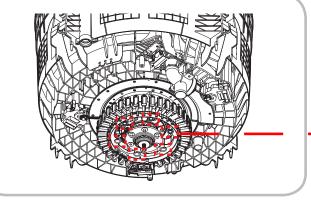
4 Disconnect the stator connection before removing the stator in the subsequent step.

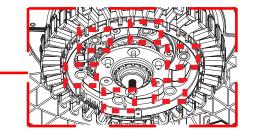


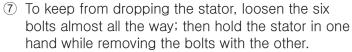


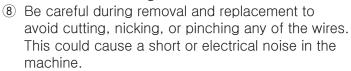


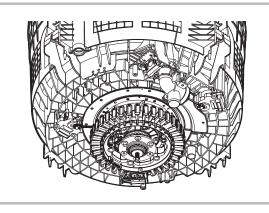


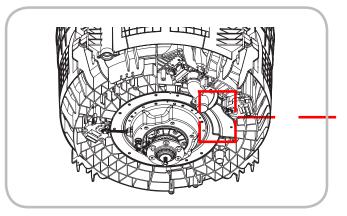


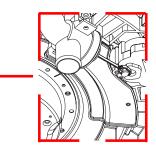






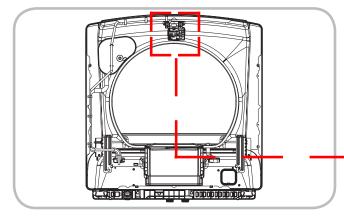






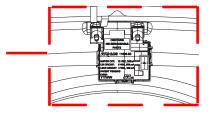
Bearing Housing

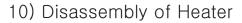
Remove 17 screws to release the bearing housing. Pull the housing away from the tub, but do not pry it with a screwdriver to avoid damage.



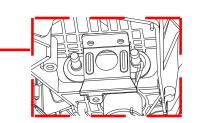
9) Disassembly of Door Lock Switch

- 1 Remove the two door lock attachment screws.
- 2 Remove the door switch and remove the attachment tube.

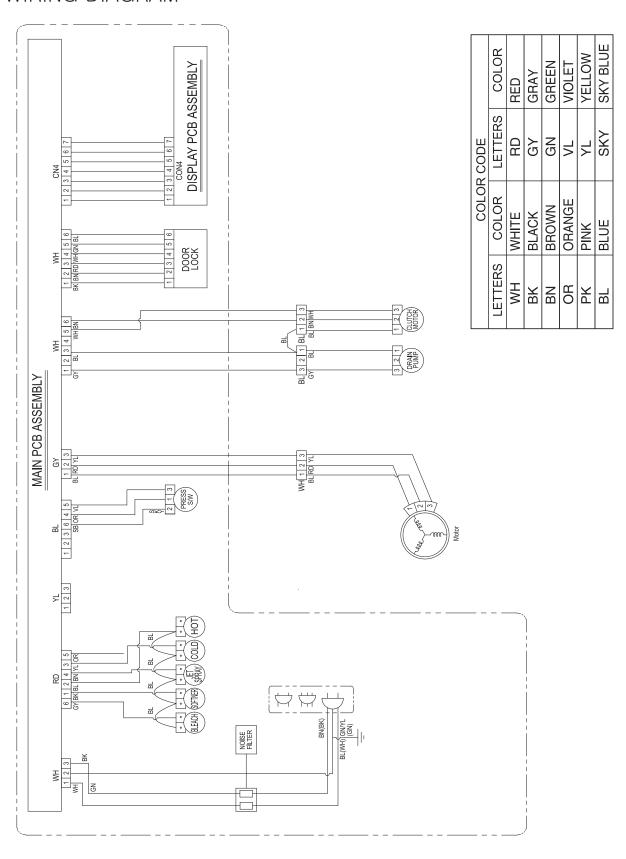




- 1 Remove the three heater attachment screws.
- ② Loosen the nut at the middle of the heater to relieve the tension on the clamp. Then pull it out of the case.



4-2. WIRING DIAGRAM



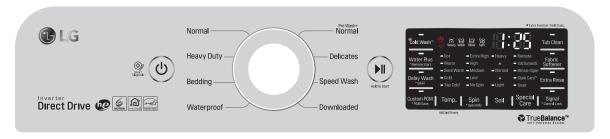
4-3. TEST RUNNING WITHOUT WATER

1) SAFETY CAUTION

- •The main power board assembly has exposed live 120VAC and live DC voltages. Use care when disconnecting connectors during troubleshooting and testing. (Wear electrostatic discharge gloves when handling the board.
- ·Unplug the power when handling the board assembly. (Wear electrostatic discharge gloves when handling the board. Store the board in an ESD [ElectroStatic Discharge] plastic bag.)

2) SERVICE MODE

The washer must be empty and the controls must be plugged in and turned off.



- ·Press the POWER button: then press and hold the Temp. and Soil buttons. The buzzer will sound twice.
- ·Press the Start/Pause button to advane to the subsequent test mode step.

Number of timesthe START/PAUSE button is pressed	Check Point	Display Status
None	Main program version	t1 and main program version
1 time	Display program version	t2 and display program version
2 time	None	t3
3 time	Inlet valve for detergent turns on.(Cold Water)	A and water level frequency(268 ~ 233)
4 time	Inlet valve for detergent turns on.(Hot Water)	b and water level frequency(268 ~ 233)
5 time	Inlet valve for softener turns on.(ColdWater)	C and water level frequency(268 ~ 233)
6 time	Inlet valve for jet spray turns on.(ColdWater)	d and water level frequency(268 ~ 233)
7 time	Inlet valve for bleach turns on.(ColdWater)	E and water level frequency(268 ~ 233)
8 time	Heater check (on heater model)	t4 and the coefficient of flood sensing
9 time	Heater check (on heater model)	t5 and alpha RPM
10 time	Drain pump and agitate (pulsator) check	t6 and water level frequency(268 ~ 233)
11 time	Load sensing Check	t7 and the coefficient of load sensing
12 time	Agitate (tub) check	t8 and RPM
13 time	Spin Check	t9 and RPM
14 time	Off Unlocks the door Turns off all LED	None

4-4. TROUBLESHOOTING BY COMMON WASHING PROBLEMS

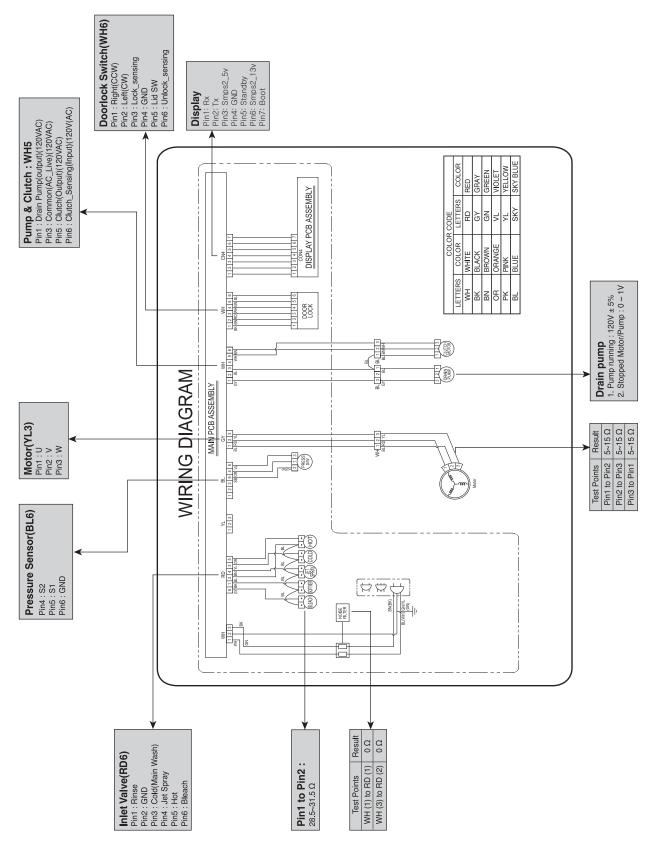
Many washing problems involve poor soil and stain removal, residues of lint and scum, and fabric damage. For satisfactory washing results, follow these instructions.

Use ONLY powdered or liquid HE (High Effificiency) detergents. Do NOT use flakes scraped from a soap cake or bar, flakes, soap ribbons (available in some markets,) detergent tablets, plastic pouches, magic laundry balls, or anything other than powdered or liquid HE detergent products. Do not use soap of any kind. Do not use other types of detergent or soap products, such as hand soap, dishwashng liquid, or any others.

WASHING PROBLEM

Problems	Possible Causes	Solutions and Preventive Measures
Poor soil removal	· Insufficient detergent · Wash water temperature too low · Incorrect wash cycle · Laundry missorted · Stains not properly pretreated	Use correct amount of detergent for load size, amount of soil and water hardness. Use WARM or HOT water for normal soil. Different water temperature may be required according to soil type. (refer to page 10 Reduce load size. Wash with heavy or soak & heavy 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 15.
Blue Stains	· Undiluted fabric softener dispensed directly onto fabric	Pretreat the stain with detergent or a stain removal agent. Do not overfill fabric softener dispenser and do not pour liquid fab softener directly onto fabric. See page 13 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 scum (waxy buildup). Use correct amount of detergent for load size, soil level, 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 minutes to clear lines.
Lint	Incorrect sortingTissues left in pocketOverloading the washer	Do not overload the washer 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.
Residue or Detergent	· Overloading the washer · Undissolved detergent · Excessive detergent	Never pour chlorine bleach directly on fabric. See page 11 for adding liquid bleach. Fasten zippers, hooks, and buckles. Remove objects in pockets. See page 9 for caring before loading. Do not overload the washer.
Holes, tears, or snags	 Incorrect use of chlorine bleach. Unfastened zippers, hooks, buckles Ribs, tears and broken threads Overloading the washer Degradation of fabric 	

4-5. TROUBLESHOOTING SUMMARY



4-6. PCB Picture



4-7. TROUBLESHOOTING WITH ERROR CODE

Trouble	Check	Counterplan
IE	 Verify the valve is open and water is on. Check the filter on inlet valve whether clogged with foreign material or not. Check the connector of valve and RD6 on PCB/4. Check the testmode (Testmode 3) Check the valve resistance. (0.8-1.2 kΩ) 	1. Turn the tap on. 2. Clean or replace the filter 3. Reconnect or repair the connector 4.4. Replace the PCBA 5. Replace the inlet valve assembly.
OE	 Check the test mode (Testmode 6) Check the connector of PCBA or pump or connection connector Check the connection from PCB to pump by tester. Check the pump SPEC (resistance of the coil is 10-20 Ω) and input voltage on working (120V±5 	1. Replace the PCBA 2. Reconnect or repair the connector 3. Replace harness 4 Replace pump 5%)
dE	Connect other doorlock switch and check the lick sensing by magnet	1. Replace the doorlock switch or PCBA
dL	 Check the doorlock switch trying locking Check the balance of the lid. 	If trying, replace the doorlock switch. Or not trying replace the PCBA Replace the door or set the balance
FE	1. Check the Water level (1) Power on and run (2) Press the SPIN SPEED & DELAY WASH 2. Check the valve	1. If segment is displayed under 10, replace the PCBA 2. Replace the valve
PE	 Check the Presure Sensor (21~23 Ω ±10%) and connection Check the Connector (BL6) 	1. Reconnect or repair the connector
LE	 Check the connector of PCBA (YL3, BL6) or motor connector or connection connector Check the magnet for Rotor Check the Rotor Resistance (YL3) 5 to 15 Ω (U-V, V-W, W-V :U=1, V=2, W=3) 	 Reconnect or repair the connector Replace the rotor. Replace the stator.
LE1	Check Foreign objects, such as coins, pins, clips etc., being caught between the wash plate and the inner basket.	 Turn off the washer and then press the Power button. Press the spin speed button without selecting a cycle to drain and spin the load. When the spin is complete, remove the clothes and then find and remove any objects caught in the wash plate.
No Power	1. Check the fuse for noise filter and PCBA by teste 2. Check the IPM Check the Short between top switch Heatsink and GY pin by Tester	

DRAIN ERROR

Is OE displayed?

Yes [

Is the connector connected to yes pump motor assembly disconnected or disassembled?

Reconnect or repair the connector



Drain pump



Connection connector

 \bigcup No \bigcup

When you enter the SVC Mode, is the water level frequency below 26.0 kHz?

Check theAIR CHAMBER, the tube (clogged), and press switch

Yes



] No]

Is the coil of the drain pump too high or low? (resistance of the coil is $10-20\Omega$)

Replace the DRAIN PUMP ASSEMBLY.

□ No □

Is the voltage between connectors out of range? (WH6 Pin 1)

-After remove Terminal Position Assurance

of connector, check as follows



Replace the MAIN PCB ASSEMBLY.

Yes

Pump running: 120V±5% Stopped Motor/Pump: 0~1V

Method

- 1. Enter the SVC Mode.
- 2.Press Start/Pause button
- : 1 time Main Version
- : 2 times DisplayVersion
- : 3 times Inlet valve check mode
- : 4 times ColdValve, BleachValve
- : 5 times Rinse Valve. Hot Valve
- : 6 times Jet Spray Valve
- : 7 times Heater Check
- : 8 times Alpha Check
- : 9 times Pump Check

[Note] Environmental check list

- 1) The drainage hose must not stay in a lower position
- 2) The drainage hose must not be bent or clogged in any way due to the surrounding physical configuration
- 3) The drainage hose must not get frozen at all times.
- 4) The drainage pump must not have any improper substance or material inside that may cause a machine breakdown.

LOCKED MOTOR ERROR

Is LE displayed?

⊒Yes [

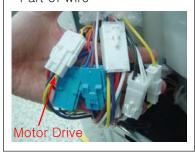
Check the connectors below.
Is the connector disconnected or disassembled?
(motor drive connector)

Part of main PCB assembly (YL3)

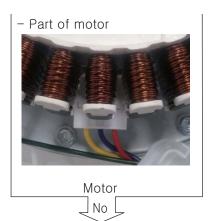


Motor Drive

- Part of wire



Reconnect the connector (connector / wire / motor)



Is rotor magnet cracked?

Yes

No

Replace the ROTOR

Is the resistance values in the range of 5 to15Ω? (U-V, V-W, W-V:U=1, V=2, W=3) -After pull out the YL3 connector, check the terminal of the connector in wire.



Replace the STATOR

No

Yes \

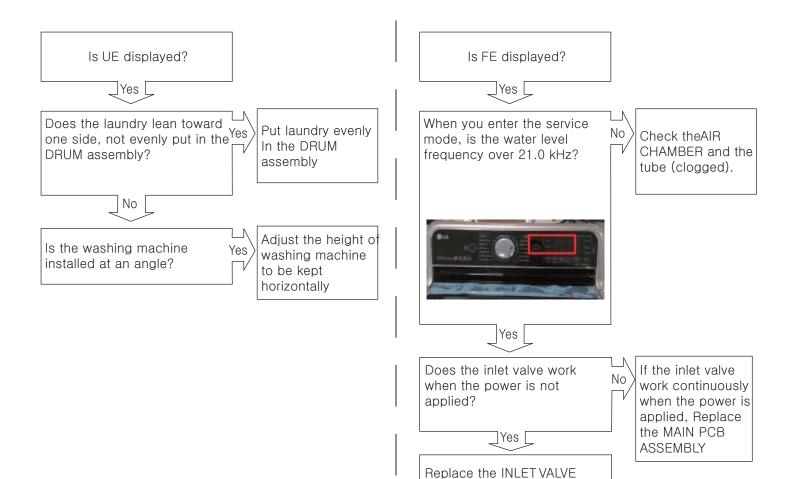
Check the IPM in the controller. Is IPM short?



Replace the MAIN PCB ASSEMBLY

UNBALANCE ERROR

OVER FLOW ERROR



ASSEMBLY

PRESSURE SENSOR ERROR

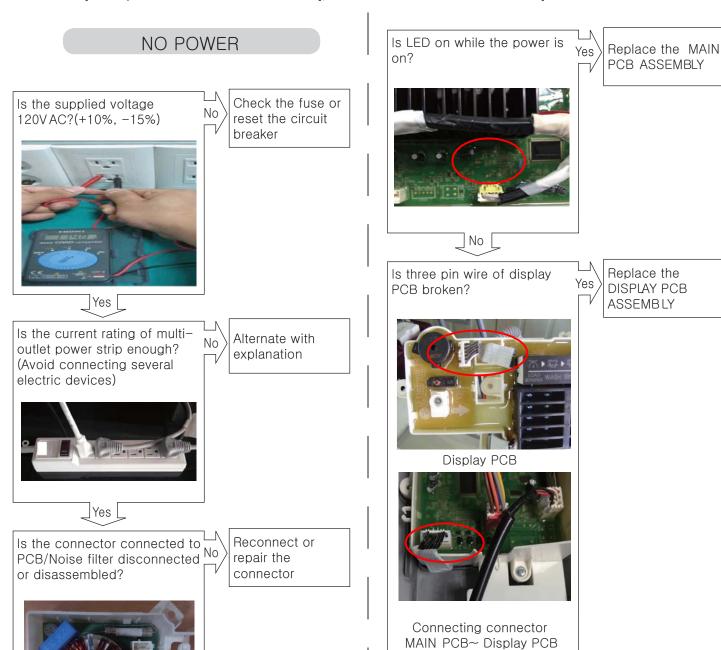
Is PE displayed? _∣Yes L_ Is the connector connected to yes pressure sensor disconnected Reconnect or repair the or disassembled? connector No Is the resistance of the Replace the pressure sensor out of range? Yes pressure switch (pin $1 \sim pin 3$) $(21~23~\Omega\pm10\%)$ JNo [Fix the air Is the AIR CHAMBER and the chamber and tube clogged? remove the foreign material □No □ Replace the MAIN PCB assembly

4-8. OTHER TROUBLESHOOTING

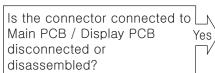
▲ CAUTION

Yes

- 1. Be careful of electric shock if disconnecting parts while troubleshooting.
- 2. First of all, check the connection of each electrical terminal with the wiring diagram.
- 3. If you replace the main PCB assembly, reinsert the connectors correctly.



POWER BUTTON DOESN'T WORK





connector



Replace the DISPLAY PCB ASSEMBLY



Connecting connector Main PCB~ Display PCB

IJNo [

Is the button of panel stuck?



Repair the button

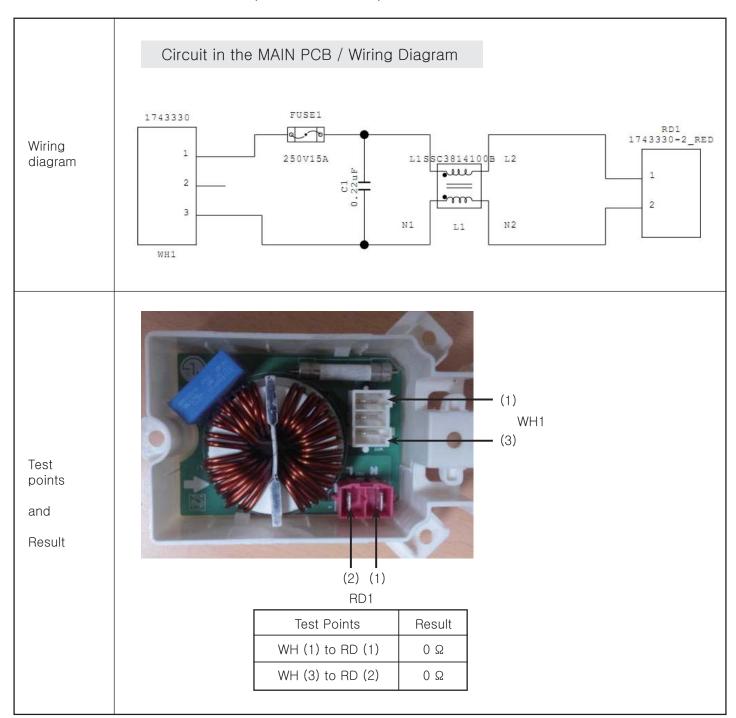


No

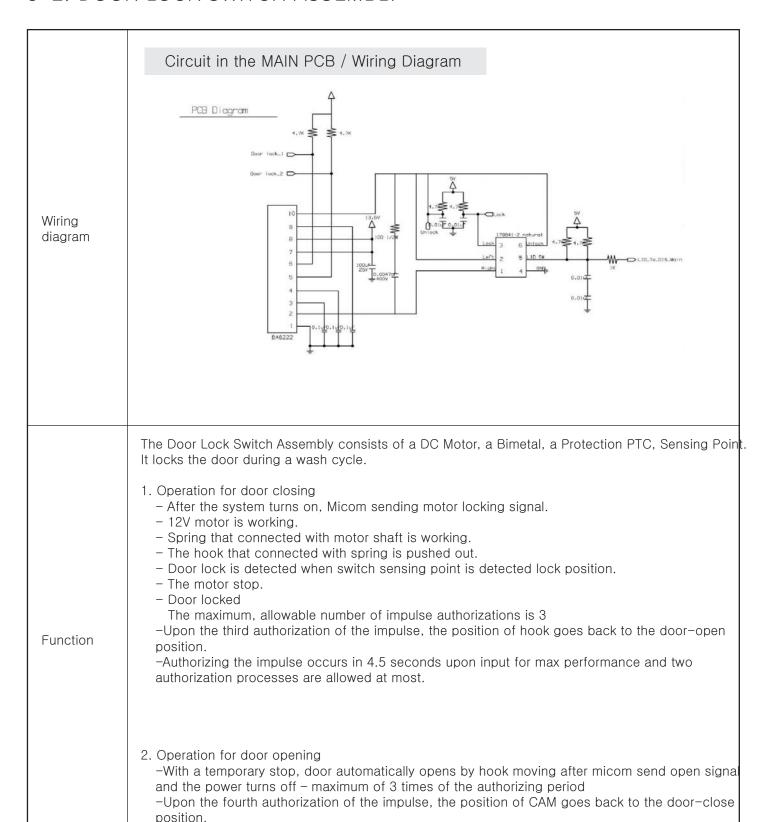
5. COMPONENT TESTING INFORMATION

A WARNING When resistance (Ohm) checking the component, be sure to turn the power off, and do voltage discharge sufficiently.

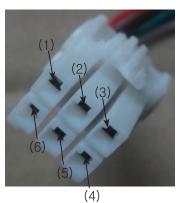
5-1. FILTER ASSEMBLY (LINE FILTER)



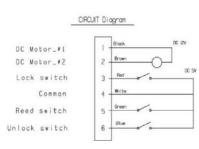
5-2. DOOR LOCK SWITCH ASSEMBLY





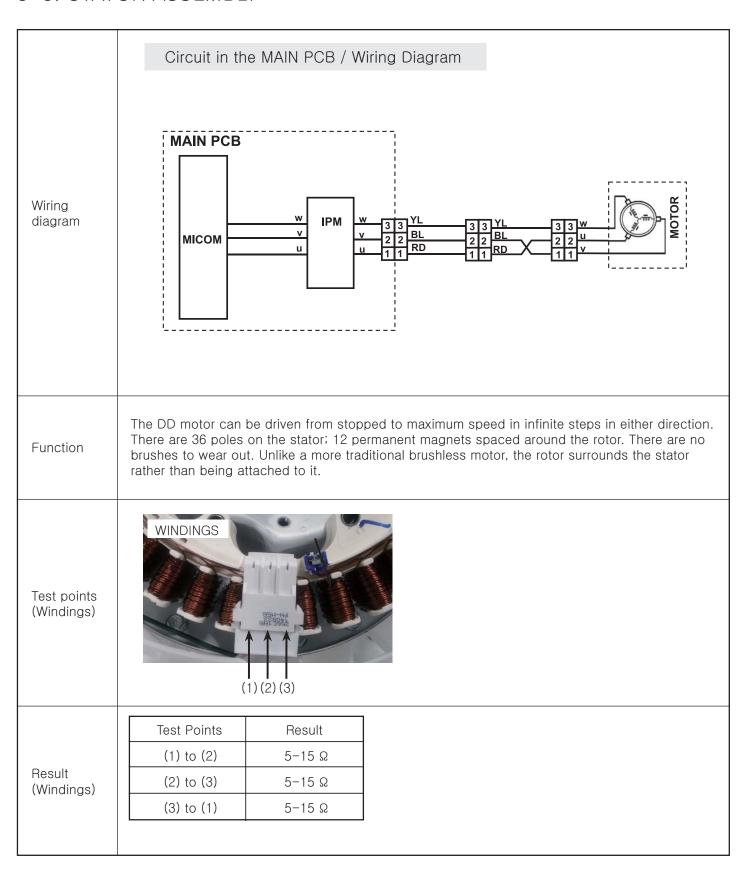


Result

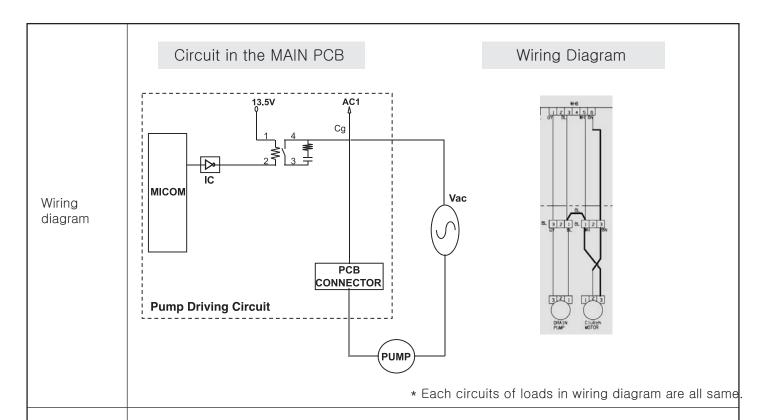


Test Points	Result
(1)To (2) (1)-Black / (2)-Brown	33 ~ 46 Ω
(4) To (5) (4)-White / (5)-Green	9 ~ 11 AT

5-3. STATOR ASSEMBLY



5-4. PUMP MOTOR ASSEMBLY



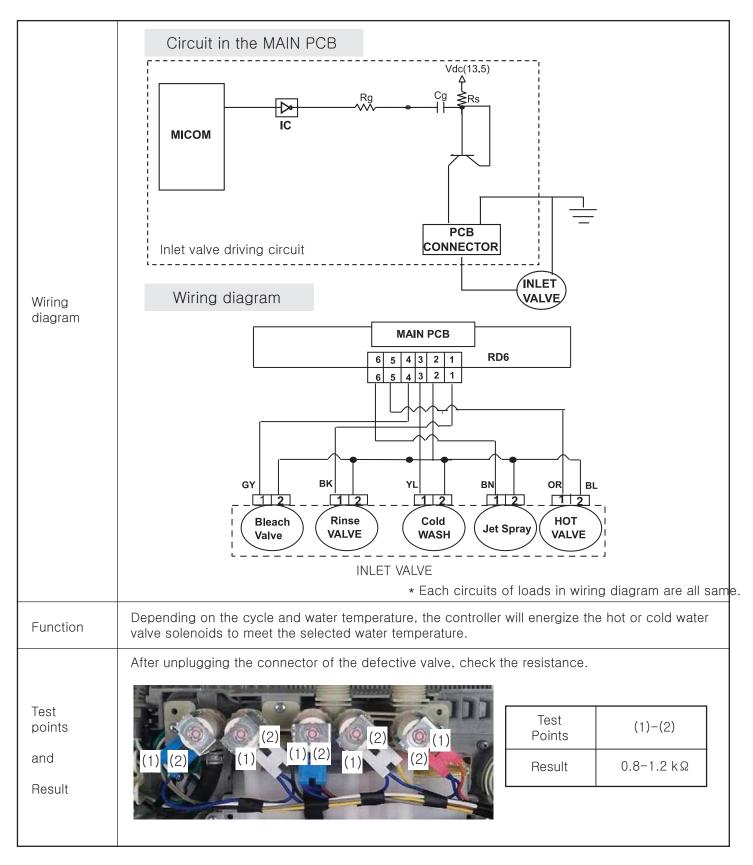
1200 860 1.4 A1 1-4 500 tz
Line rating linic 01 45 an 079
17. 06. 1 / 1

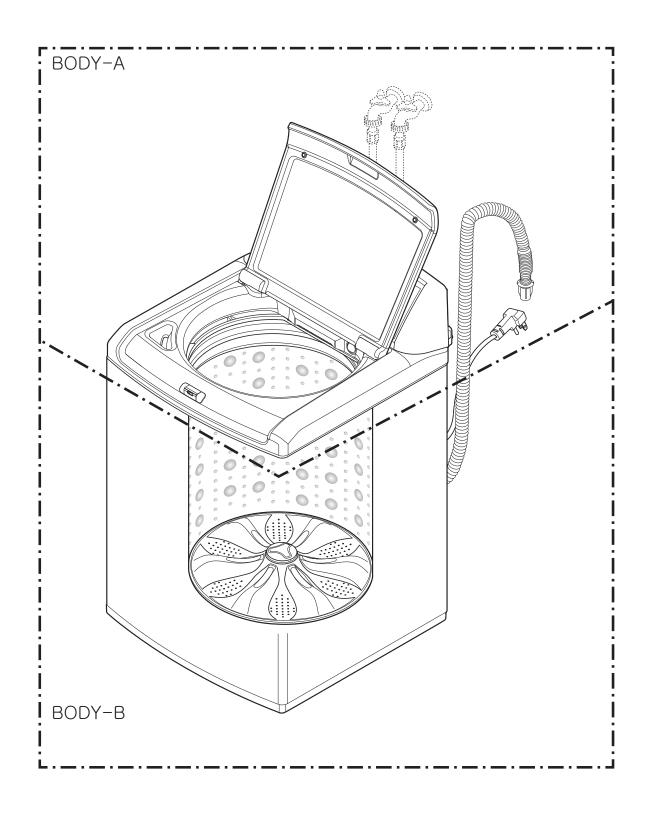
Test Points Result Remarks

(1) to (2) 10.9±5% Resistance

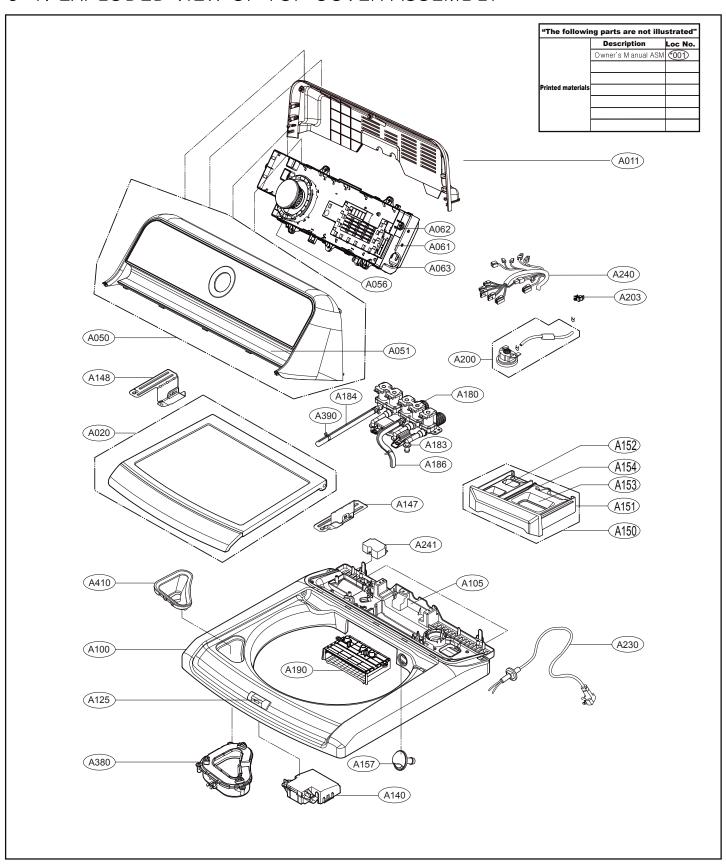
Test points and Result

5-5. INLET VALVE ASSEMBLY

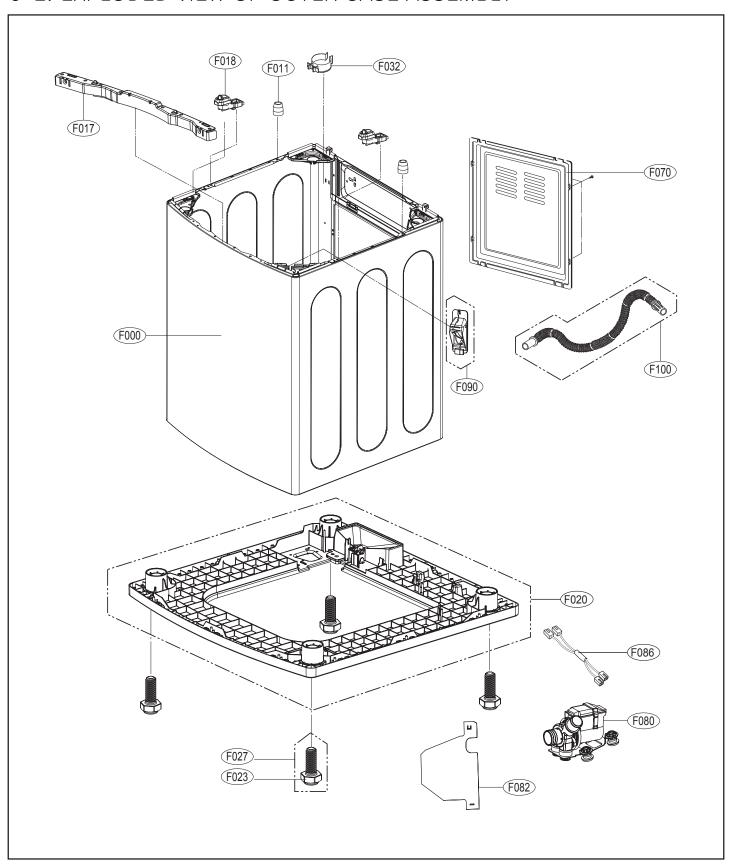




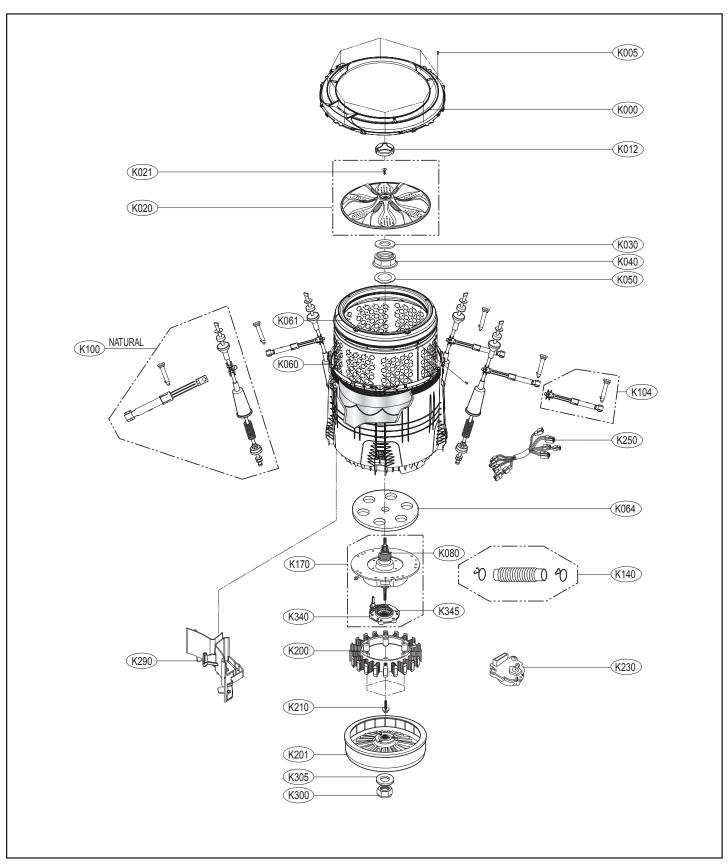
6-1. EXPLODED VIEW OF TOP COVER ASSEMBLY



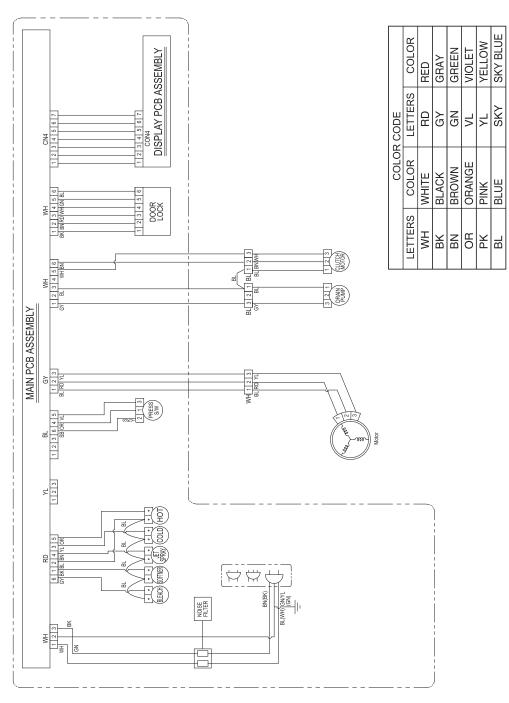
6-2. EXPLODED VIEW OF OUTER CASE ASSEMBLY



6-3. EXPLODED VIEW OF TUB ASSEMBLY



7. REPLACEMENT PART LIST



WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK:

THE POWER MUST BE DISCONNECTED BEFORE SERVICING BY UNPLUGGING THE MACHINE OR DISCONNECTING THE CIRCUIT BREAKER.

THE MACHINE MUST BE ELECTRICALLY GROUNDED THROUGH THE LEAD IN THE 3-PRONG POWER CORD THE CORD MUST BE PLUGGED INTO A APPLIANCE OUTLET THAT HAS BEEN PROPERLY INSTALLED. IF LOCAL CODES REQUIRE AN ADDITIONAL GROUND CONNECTION, USE A 15 GAUGE OR LARGER WIRE TO CONNECT THE WASHER CABINET TO AN ESTABLISHED GROUND. IN ALL CASES, THE GROUNDING METHOD MUST COMPLY WITH ALL LOCAL ELECTRICAL CODES AND ORDINANCES.



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