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WASHING MACHINE SERVICE MANUAL

CAUTION

Before servicing the washer, Read the safety precautions in the manual.

MODELS : WF-T10(~3)0(~2,6)1(~5)TP(H,E,F)(S,3) WF-T802/T852(A)/T853A WF-T(F/C)1091~3, 1191~3T(C/H/P) WF-T(F/C)1022, 1122, 1001T(C/H/P) WF-T1268TH, 2409KTb, 2602kTa WF-T1491TP, T11292TP, T1292TP, T1291TP WF-T1081TP, T1592TP, T1593TP WF-T1241TP, T1133TH WF-G15KTB, G13KTC, B15KTB, B13KTC WF-T1400TH, T1022TPX

SAFETY PRECAUTION!

DISASSEMBLE POWER CORD BEFORE SERVING RECONNECT ALL GROUNDING DEVICES

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.

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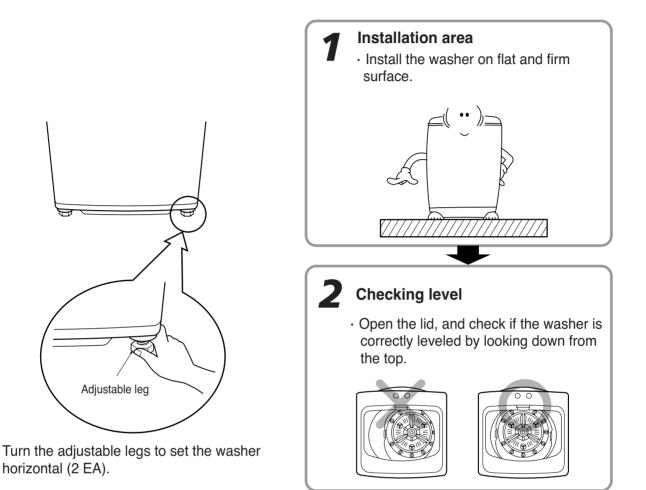
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1. SPECIFICATIONS

Model	WF-T10(~3)0(~2,6)1(~5)TP(H,E,F)(S,3), WF-T802/T852(A)/T853A WF-T(F/C)1091~3/1191~3T(C/H/P), WF-T(F/C)1022/1122/1001T(C/H/P) WF-T1268TH/2409KTb/ 2602kTa/T1491TP/T1022THX/T1133TH WF-T1081TP/T1491TP/T11292TP/T1292TP/T1291TP/LA-1499ST/T1592TP/T1593TP/T1241TP WF-G15KTB/G13KTC/WF-B15KTB/B13KTC/WF-T1400TH/T1022TPX
Power Sourse	Refer to rating label on the back of Washer
Input	Refer to rating label on the back of Washer
Capacity	Refer to rating label on the back of Washer
Inner Tub	Stainless
Inlet Water Pressure	0.3kgf/cm ² ~ 8kgf/cm ²
Rating of Fuse	250V, 6A for 220~240V/50Hz 125V, 12A for100~127V/60Hz
Spin Speed	50Hz : 700 ± 50 / 60Hz : 740 ±50
Dim.	Refer to rating label on the back of Washer
Weight	Refer to rating label on the back of Washer
Program	Fuzzy, Economy, Jean, Wool
Water Level	7 Stages
Reservation	Available for 3 ~ 48 Hr
Unbalance Switch	B.P Sensor (S.F Switch)
Lid Interlock Switch	B.P Sensor (S.F Switch)
Child Lock	Applied
Lint Filter	Double
Softener Dispenser	Applied
Detergent Dispenser	Applied
Bleach Inlet	Applied
Auto Power Off	Applied

2. INSTALLATION INSTRUCTIONS

2-1. HOW TO ADJUST LEVEL



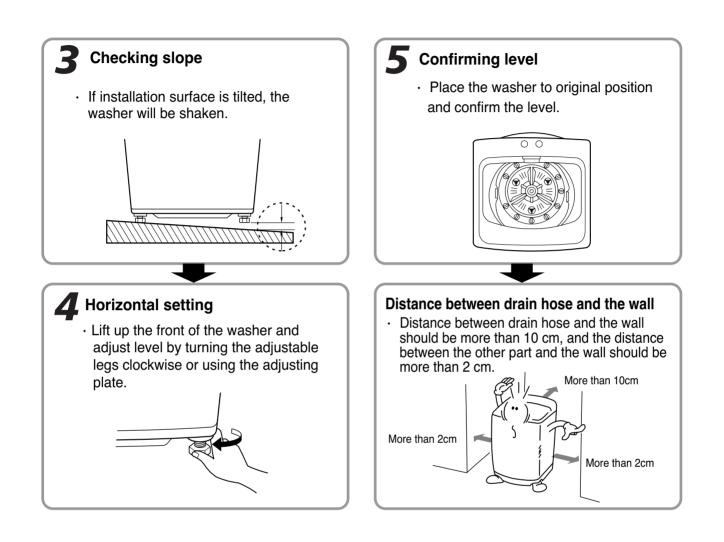
How to use the adjusting plates

• Use the adjusting plates to level the washer when the adjustable legs cannot cover the gap.

Improper installation of the washer may cause noise and malfunctioning.



- 1. The ventilating openings in the base area must not be obstructed be carpeting when the washing machine is installed on a carpeted floor.
- 2. Install the washing machine on a level and firm surface, any tilt should be less than 1°.



2-2. CONNECTING WATER SUPPLY HOSE

Before connecting Water Supply Hose to water tap, check your hose type and choose correct instruction. Water Supply Hose may vary according to the country.

Make sure connect blue inlet hose to cold water tab, and orange inlet hose to hot water tab.

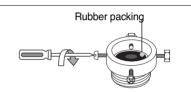
Connecting Water Supply Hose to water tap

Normal Type Normal tab without thread & screw type inlet hose.)



Untighten the screw

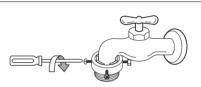
Untighten the screw of the connector so that the tap can be placed in the middle.





Fixing the connector to the tap

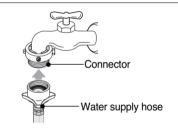
Push the upper connector up till the rubber packing is in tight contact with the tap. Then tighten the 4 screws.

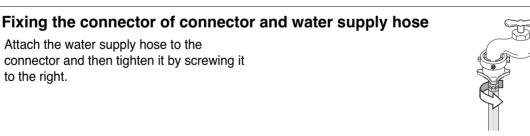




Attach the water supply hose to the connector

Push the water supply hose vertically upwards so that the rubber seal within the hose can adhere completely to the tap.





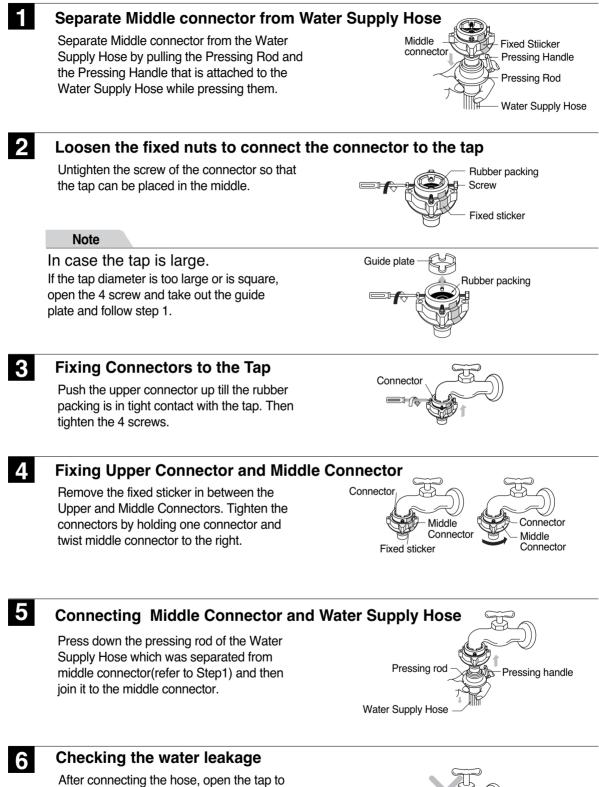


Check the connection of water supply hose and the connector

After connecting the hose, open the tap to check for any water leakage. In case of water leakage, close the tap and start again from step 1



One Touch Type (NORMAL TAB WITHOUY THREAD & ONE TOUCH TYPE INLET HOSE.)

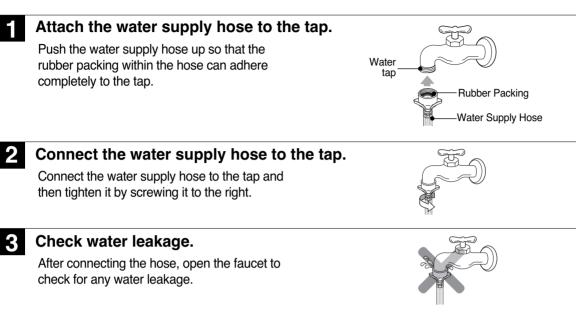


In case of water leakage, close the tap and start again from step 1. If you skip step1, it may cause water leakage.

check for any water leakage.



Screw Type

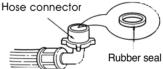


Connecting Water Supply Hose to the machine

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.





2-3. CONNECT THE DRAIN HOSE

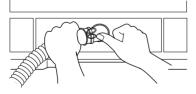
For pump model

Connect the drain hose to · Attach the clip to the drain · Check that the drain hose is the outlet of the drain pump hose. And then push it toward hung up over the edge of the located at the rear of the the body of the washing laundry tub. washing machine. machine as indicated by the · Do not use an extension hose. arrow Guide Vithin 50mn 0.9~1.2m Drain Hose • **NOTE** : • Never lay down the drain hose, as water will be discharged. · Be sure the drain hose is properly routed so it will not kink or lift from the sink. • The discharge height should be approximately 0.9~1.2m from the floor. Connect the drain hose adjusting the length of it not to be dropped. If drain hose is dropped the drainage could be poor because of blockage in the hose.

For non - pump model

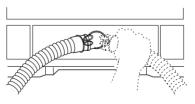
CAUTION

 Connect the drain hose to the outlet of the drain located at the back side of the washing machine.



- \cdot Keep it downward while the washing machine is working.
- \cdot Ensure the hose is free from kinking.

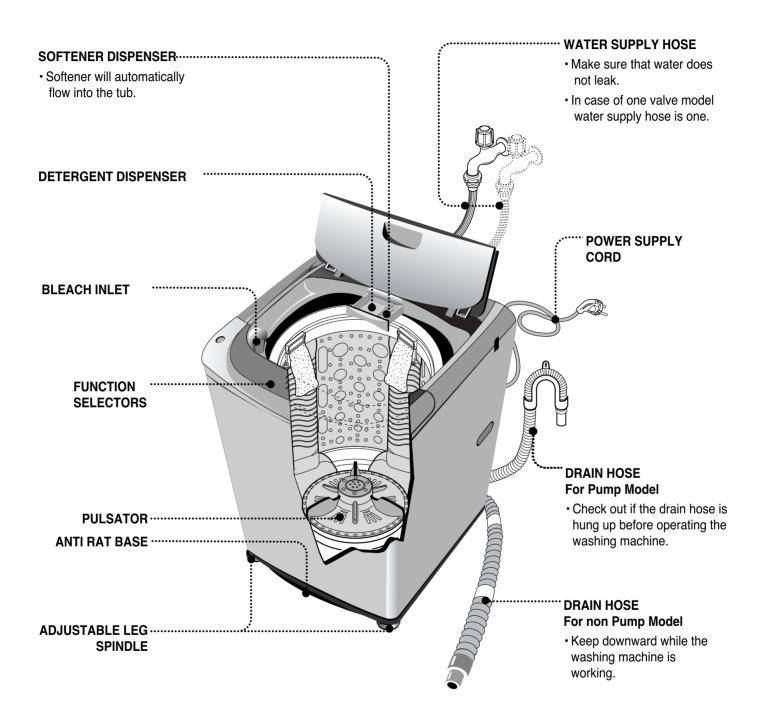
 \cdot Fix the drain hose with the clip. And then push it toward the body as in the figure.



Do not install the washer where it is directly exposed to sunlight, wind, rain etc.
Plug the power cord of this washer into a properly installed standard electrical outlet that is switched & earthed.

3. OPERATING INSTRUCTIONS

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.

Sortina

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

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

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.

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 Start button and submerge additional items. Close the lid and press Start button again to restart.

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.



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.









Using Water

Amount of Water Level

- This machine detects the quantity of laundry automatically, then sets the water level and proper amount of detergent.
- When you select a wash program, the water level and amount of detergent (to be used) will be shown on the control panel.



- The following table shows the amount of water.
- When the water level is automatically detected, it may differ depending on the quantity of laundry even though the same water level is indicated on the control panel.
- The amount of a cup in the diagram is about 40g for concentrated detergent.

Water temperature

- The machine sets the appropriate temperature automatically according to the wash program .
- You can change the water temperature by pressing the WATER TEMP button.
- The temperature of the water impacts the effectiveness of all laundry additives and therefore, the cleaning results. We recommend temperatures of:
 - HOT 49~60°C...(120-140°F)
 - White items, diapers, underclothing and heavily soiled, colorfast items. Most items
 - WARM 29~40°C...(85-105°F)
 - COLD* 18~24°C...(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.

Attention

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.

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.

Using Detergent

How much detergent

When you select a wash program the water level and the amount of detergent (to be used) will be shown on the control panel. The amount of a cup in the diagram is about 40g for concentrated detergent. The correct amount of detergent will vary depending on the amount of soil in your clothes (Jeans and work cloches may need more detergent, while bath towels usually need less.).

For liquid and concentrated detergents, follow the recommendations of the detergent manufacturer. 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 as clean and efficient. Also, it could cause environmental pollution, so use it accordingly.

Adding the detergent

Open the detergent dispenser and deposit the appropriate amount of detergent.

Some detergents MUST be fully dissolved before

adding to your machine to get the best wash results.

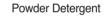
Check the instructions on the detergent packet.

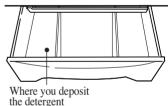
If you use powdered detergent it is essential that the required amount be fully dissolved in very hot water before being added to warm or hot water for the actual wash.

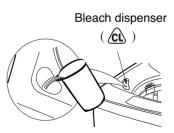
Pre-dissolving detergent in warm water when washing in cold water can improve its performance.

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.







Attention

- 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 remover. Mixing can reduce a toxic gas which may cause death.
- Do not pour powdered bleach into bleach dispenser.

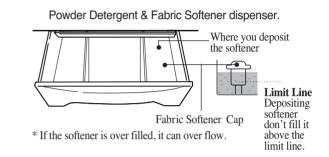
Using Fabric Softener

Available Fabric Softener Type

- Do not use concentrated fabric softener. This may cause some problems in automatic dispensing.
- · For more details refer to the softener products instructions for use.

Depositing Fabric Softener

- Don't use softener with detergent. Use softener in last rinse water
 - When using dispenser, dilute softener (30ml) with fresh water (30ml)
 - When filling dispenser, do not splash or overfill. It may stain clothes.
 - Never pour fabric softener directly on clothes. It may stain them
 - If spotting occurs, wet and rub hand dishwashing liquid (or mild bar soap) and rewash.



Note

Fabric Softener will be inserted automatically during the final rinse and the machine gives on alarm sound. When water pressure is low, the softener may have to be inserted manually.

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 25)
- Cold water washing increases the chance of this build-up occurring. We recommend a regular warm or hot 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 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 granular 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.

 Rinse and wash ite 	ems 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	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 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 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.

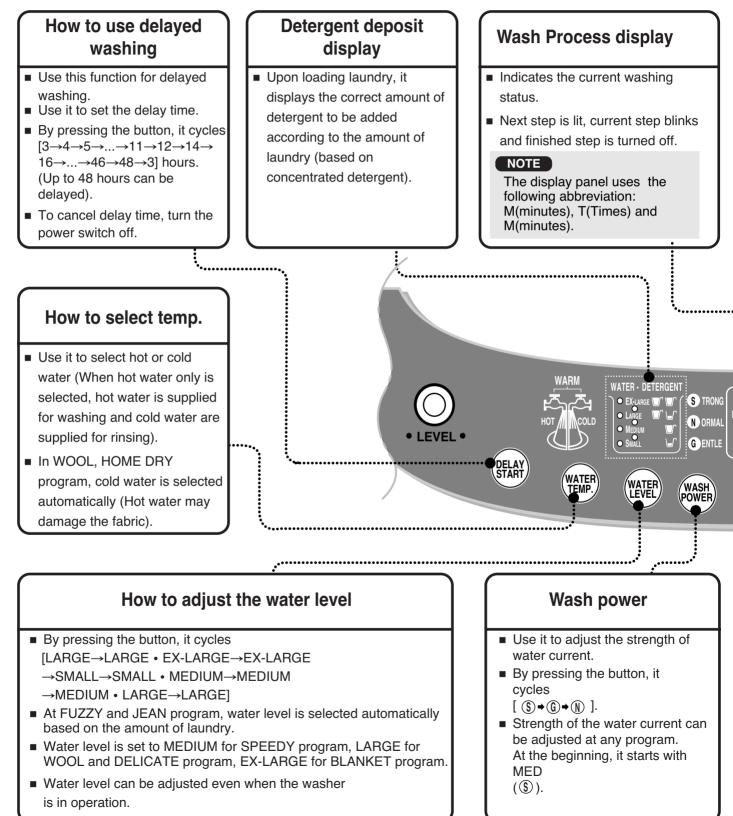


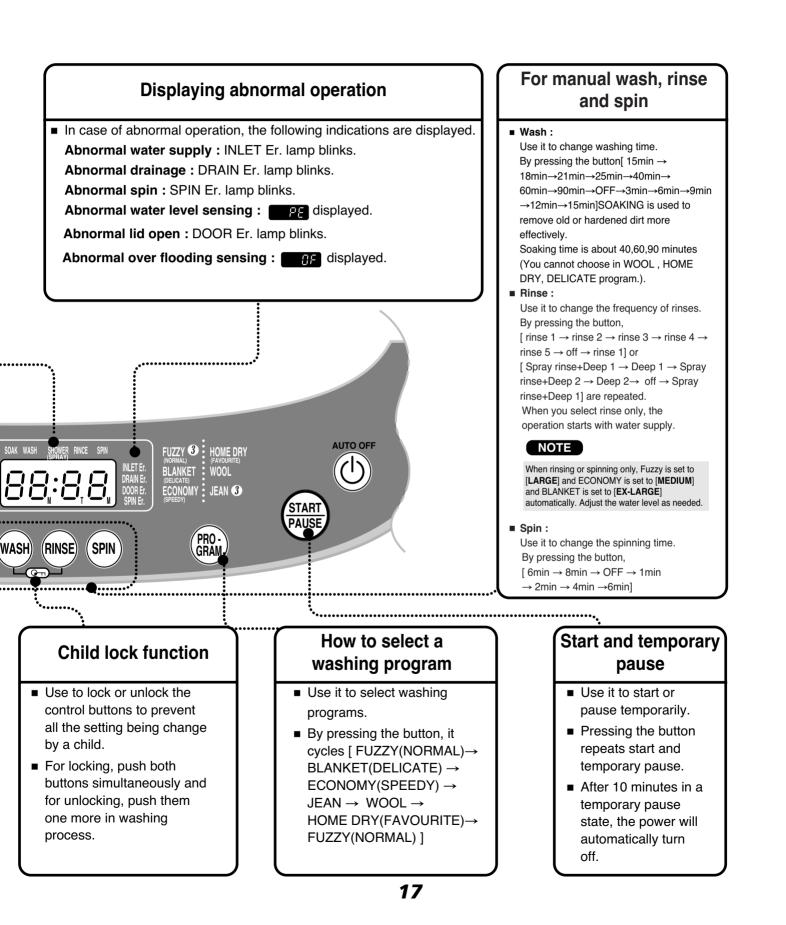
Follow fabric care label instructions

3-3. FUNCTION OF EACH BUTTON

► Changing various functions is possible only in PAUSE state.

Selection button does not work when the washer is in operation (Except for water level, water temp, water power button).





3-4. WASHING PROGRAMS

Washing Programs	AUTO OFF	Add the laundry	PRO- GRAM	PRO- CESS	Add the deterg
Fuzzy Washing (Normal Wash) Used for normal loads, 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 the ideal wash power and wash, rinse and spin times are set accordingly		2			 Add the appropriate detergent as indica water level next to ' DETERGENT. Or follow the deterg manufacturer's inst
Blanket Wash Blankets of different size can be easily washed.			• Select the BLANCKET program on the Control panel.		
Delicate Wash Use this program for washing delicate laundry such as lingerie, blouses etc.	0	3	• Select the DELICATE program on the Control panel.		
Economy Wash (Speedy Wash) Use this mode when washing lightly soiled clothes for a short time. The weight should be under 2.0kg.		3	• Select the ECONOMY (SPEEDY) program on the Control panel		
Jean Wash Use jeans program when washing heavy, thick, and extremely dirty laundry such as jeans and work outfits.		3	• Select the JEAN program on the Control panel.		
Wool Wash Use this program for washing delicate fabrics such as lingerie and woolens. (wash only "water washable" clothes) Before washing your woolens check the care label for the washing instructions.(wash only water washable clothes)		3	Select the WOOL program on the Control panel.		 Use neutral deterg appropriate for the When washing wo a mild detergent recommended for wool.
Homedry Wash Use this program for clothes that have [HOME WASH and DRY] or [WATER WASH and DRY] tags. For homedry, amount of laundry must be less than 1.2kg at a time.		3	• Select the HOMEDRY program on the Control panel.		

	START PAUSE	Close the lid	Finish		Caution	n & Note				
tity of the R-	 The pulsator rotates for 8 seconds to detect the laundry load. Then the water level and the amount of detergent to be used will be shown and water will be supplied. 	• Water will be supplied for 2 minutes after the start of the wash to supplement the water the laundry has absorbed.	• When the wash program ends, the buzzer will ring for 10 seconds before the Power goes off automatically.	 If water is already in the tub, or putting wet laundry into the tub before starting will increase the water level. With lightweight bulky loads, water level can be set low. Changes to water temperature (hot/cold) and wash level are possible during operation. 						
•	4	6		 Before s washabl 		Weight : the weight of				
				Possible Laundry	hand-wash tag 100% Polyester with the hand-wash tag	sheet is under 5.0kg Blanket Stuffing : Weight about 2kg (total weight of blanket 3.5kg) Size : under approx. 2m(width) × 2.5m(breadth)				
				Impossible Laundry	 electrical blankets 	carpets				
			N 10	them float	ing out of the tub. y splash out when	cashmere blankets to prevent washing light laundry , such as sheet with water set at high leve				
	4	6								
+	4	6								
•	4	6								
Se	4	6		to prever · Washing to cold au · In order the spin This also water. T	It damage to laundr with hot water may utomatically). Ensur to avoid damage to cycle may appear so avoids wrinkles ar his is normal.	damage the laundry (Water is se re that the load is under 2kg b laundry, slow. nd clothing may still contain some				
•	The water level and the amount of detergent to be used will be shown and water will be supplied.	6	0	· Soak Wa	ish cannot be selec	ted for the Wool Wash program.				

3-5. OTHERS FUNCTIONS

1) Soak Wash

Use this mode for washing excessively dirty laundry by soaking in water for some time to remove proteins and fats. 'SOAK' mode can be used with all washing programs simultaneously except for WOOL and HOME DRY program.

1	Press the AUTO OFF (Power) bu	utton to turn power on.
	AUTO OFF	
2	Press the PROGRAM button to s	select the washing program
	\frown	
	(PRO - GRAM)	 The SOAK will not work in WOOL and HOME DRY cleaning Program.
3	Press the WASH button, to selec	t SOAK program.
	\frown	Keep pressing the WASH button until Soak wash
	(WASH)	the light turns on 'Soak' and 'Wash' simultaneously as next image.
	\bigcirc	SOAK program only works when
		socking time is 40, 60 or 90 minutes.
4	Add the detergent.	 The appropriate quantity of detergent marked next to the
	5	water level of WATER-DETERGENT.
5	Add the laundry and press the S	TART/PAUSE button.
	START PAUSE	 The water level and the amount of detergent to be used will be shown and water will be supplied.
6	Close the lid.	 Water will be supplied for 2 minutes after the start of the wash to supplement the absorbed water by the laundry.
	Finish	When the wash program ends, the buzzer will ring for 10seconds before the Power goes off automatically.
	Note	
	Order of Soak-Wash timing	
	Soak-Was	
	→ 15min+ 18min+ 2 1min+ 25min+ 40min+ 60min	
	 Select soaking time 40minutes, 60minute button repeatedly. 	es, or 90minutes (including washing time) by pressing the Wash
		nd the time for Spinning by pressing the Rinse or Spin buttons till
	you reach the desired times.	

2) 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.

Press the AUTO OFF (F	Power) button to turn power on.
\bigcirc	
2 Press the PROGRAM b	utton to select the washing program.
(PRO - GRAM)	 Select the program for laundry on the Control panel. This method will not work in Wool Program.
Press the DELAY STA	ART (RESERVATION) button.
DELAY START	 The light will ' DELAY' turn on and 'TIME LEFT' will be marked. Press the button repeatedly to set the desired finishing time. For example, To finish washing in 9 hours from now, by make the number 9:00 pressing the DELAY START (RESERVATION) button repeatedly.
Add the detergent.	 The appropriate quantity of detergent marked next to the water level of WATER-DETERGENT. When the lid is open the machine will not operate, and an alarm signal will remind you to close the lid.
Add the laundry and p	ress the START/PAUSE button.
START PAUSE	 When you press the START/PAUSE button the light will blink and the time will be shown.
Close the lid.	 Water will be supplied for 2 minutes after the start of the wash to supplement the water the laundry has absorbed.
Finish	The washing will be finished according to the delayed time.
Note	
 Finishing time can be dela and from 12~48 hours in 2 	ayed from 3~48 hours. Delaying from3~12 hours can be done in 1 hour time intervals 2 hour time intervals.
• If the lid is open, the mad	hine will not work, and an alarm signal will alarm to remind you to close the lid.
DELAY START (RESERV	nsing times, spinning time, water level, hot/cold or wash power manually, press the /ATION) button and select the desired option. Then press the START/PAUSE button.
	be taken out immediately after the wash program ends, it is better to omit the spinning ill be wrinkled if left for a long time after spinning.)

3) Option Washing

When you only need the Wash, Wash/Rinse or Rinse cycles, these can be set manually.

1	Press the AUTO OFF (Power) button to t	urn power on.
2	Only Wash	Only Wash, Rinse
	Press the WASH button to select the desired timing.	Press the WASH button to select the desired timing.
	WASH	Press the RINSE button to select the desired times of rinse.
		You can use this option for preventing wrinkles of laundry
3	Press the WATER LEVEL button, to contract the amount of laundry. If you do not chow water level automatically.	
4	Add the laundry into the washing tub.	
5	Press the START/PAUSE button.	START PAUSE
6	Add the detergent and close the lid.	

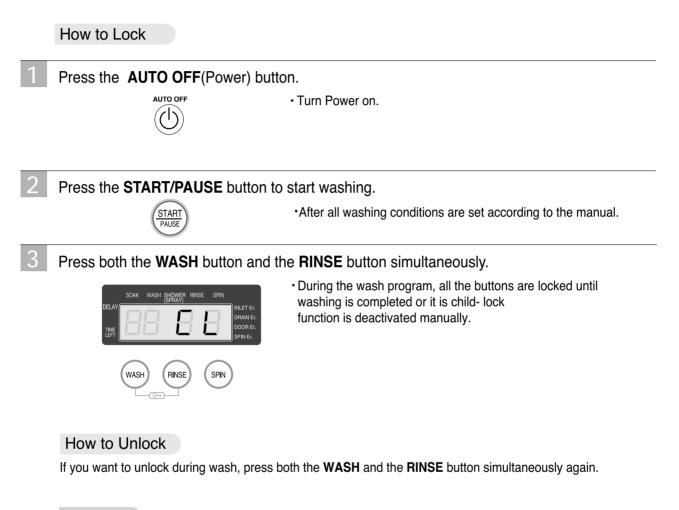
3) Option Washing

Only Rinse	Only Rinse,Spin	Only Spin/Only drain
level according to the am	Press the RINSE button to select the desired times of rinse. Press the SPIN button to select the desired times of rinse. SPIN button to control the water punt of laundry.	Press the SPIN button to select the desired times of rinse.
Add the laundry into the	washing tub.	
Press the START/PAUS	E button.	
Add the detergent and c	lose the lid.	

- When a Wash, Wash/Rinse or Rinse only option is selected, after the wash is completed the water will not be drained off. If you wish to drain the water, press SPIN button and wait until the water in the tub has drained completely. Then press the START/PAUSE button.
- If you do not specify the water level, then Medium will be automatically selected.
- If only Rinse is selected, the process will start from Water Supply.

4) Child Lock Function

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





• " [[]" & the remaining time are alternatively shown on the display while they are locked.

Mute Option

If you want to use the washing machine without alarm signal sounds, press both the **WASH** and **SPIN** buttons simultaneously.

To make buzzer work, press both the WASH and SPIN buttons simultaneously one more time.

Seeing Remaining Time

To see the remaining time for each process, press one of the **WASH**, **RINSE** and **SPIN** buttons. The remaining time for each process will appear for about 1 second.

3-6. CARE 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 hot water at approx.. 40°C.
- Pour approx.. 2 liters of hot water at approx.. 40°C, into the bowl and let it stand for 10 minutes.
- 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
 Exterior
 Hoses connecting washer to faucet should be replaced every 5 years. 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

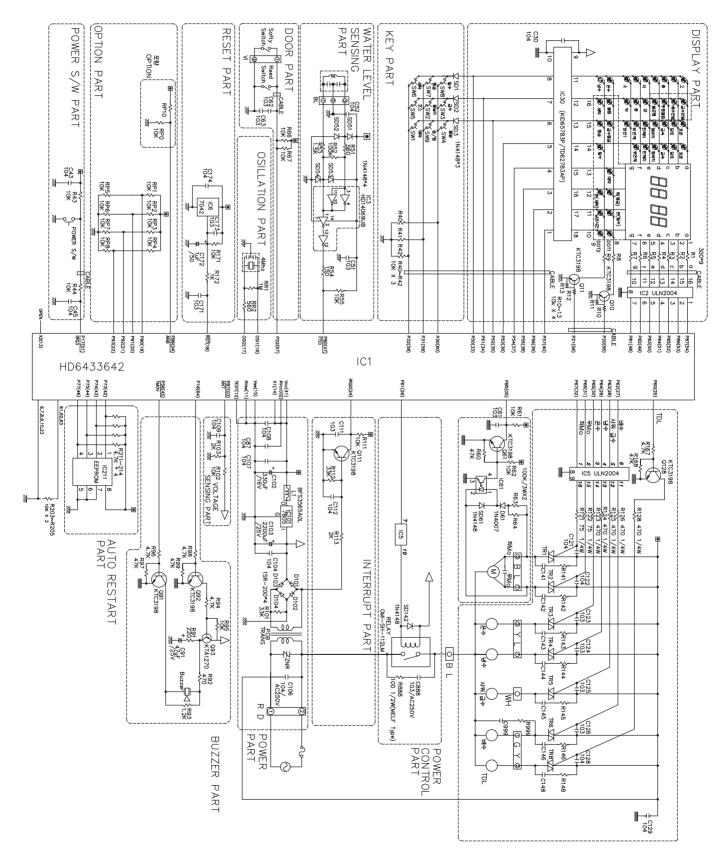
If you use fabric softener or do regular cold water washing, it is very important that you occasionally clean the inside of your washer.

- Fill your washer with hot water.
- Add about two cups of a powdered detergent that contains phosphate.
- 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.

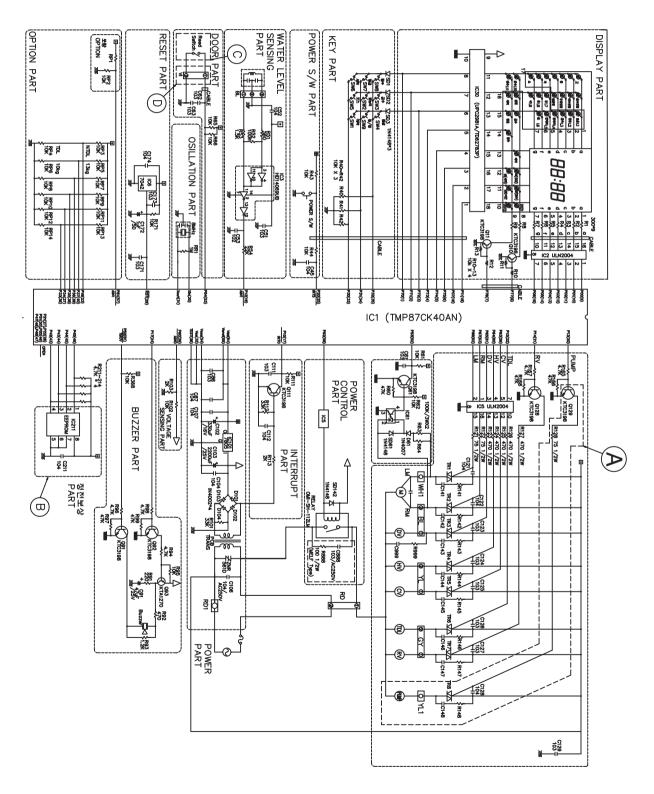
We do not recommend that you wash clothes during this procedure.

4. SERVICE INFORMATION

4-1. SCHEMETIC DIAGRAM 1) WF-T10(~3)0(~2,6)1(~5)TP(H,E,F)(S,3) / WF-T802/T852(A)

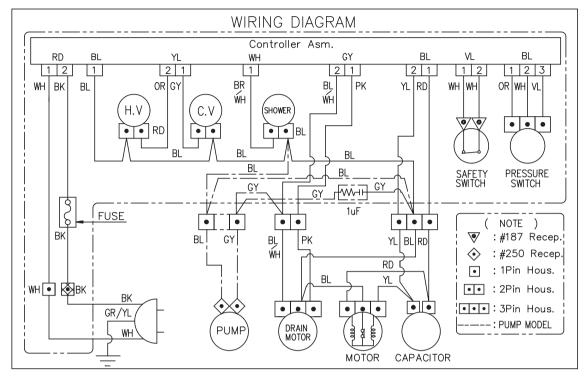


2) WF-T(F/C)1091~3, 1191~3T(C/H/P) / WF-T(F/C)1022,1122,1001T(C/H/P) WF-T1268TH, 2409KTb, 2602kTa, T1491TP, WF-T1491TP, T11292TP, T1292TP,T1291TP, LA-1499ST, WF-T1081TP, T1592TP, T1593TP, T1241TP, T1133TH WF-G15KTB, G13KTC, B15KTB, B13KTC / WF-T1400TH, T1022TPX

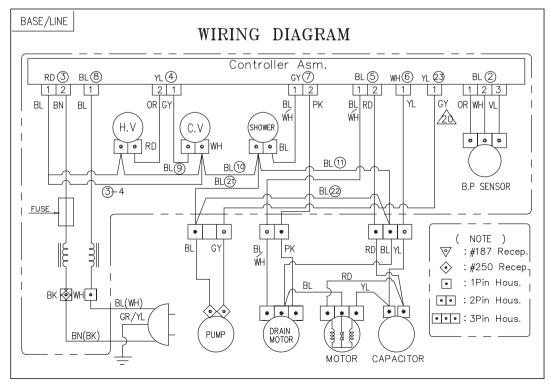


4-2. WIRING DIAGRAM

1) WF-T10(~3)0(~2,6)1(~5)TP(H,E,F)(S,3) / WF-T802/T852(A)/T853A



2) WF-T(F/C)1091~3, 1191~3T(C/H/P) / WF-T(F/C)1022,1122,1001T(C/H/P) WF-T1268TH, 2409KTb, 2602kTa, T1491TP, T1081TP, WF-T1491TP, T11292TP, T1292TP,T1291TP, LA1499ST, T1592TP, T1593TP, T1241TP, T1133TH WF-G15KTB, G13KTC, B15KTB, B13KTC / WF-T1400TH, T1022TPX



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4-3. PROGRAM TIME CHART

1) WF-T10(~3)0(~2,6)1(~5) Series Program chart

		Wa	ash		19	st Dee	p Rins	е			2r	nd Dee	ep Rins	se				Spin			
		Water Supply	Washing	Drain	Intermittent Spin	High Speed Spin	No Power Spin	Water Supply	Rinsing	Drain	Intermittent Spin	High Speed Spin	No Power Spin	Water Supply	Rinsing	Drain	Intermittent Spin	High Speed Spin	No Power Spin	Power Off	
Fuzzy	Ex-large	7	15	4	130"	90"	165"	7	3	4	130"	90"	165"	7	3	4	130"	8		10"	
	ExL-L	6	15	4	130"	90"	140"	6	3	4	130"	90"	140"	6	3	4	130"	8	140"	10"	
	Large	6	15	4	100"	90"	140"	6	3	4	100"	90"	140"	6	3	4	100"	6	140"	10"	
	L-M	5	12	3	100"	90"	120"	5	3	3	100"	90"	120"	5	3	3	100"	6	120"	10"	
	Medium	5	12	3	100"	90"	120"	5	3	3	100"	90"	120"	5	3	3	100"	6	120"	10"	
	M-S	4	9	3	55" 55"	90" 90"	100" 100"	4	3	3	55" 55"	90" 90"	100" 100"	4	3	3	55" 55"	4	100" 100"	10" 10"	
	Small	3	9	3	55	90	100	3	3	3	55	90	100	3	3	3	55	4	100	10	1
Economy	Ex-large	7	9	-	-	-	-	-	-	4	130"	90"	165"	7	3	4	130"	4	165"	10"	1
_00110111y	ExL-L	6	9	-	-	-	-	-	-	4	130"	90"	140"	6	3	4	130"	4	140"	10"	1
	Large	6	9	-	-	-	-	-	-	4	100"	90"	140"	6	3	4	100"	4	140"	10"	1
	L-M	5	9	-	-	-	-	-	-	3	100"	90"	120"	5	3	3	100"	4	120"	10"	1
	Medium	5	9	-	-	-	-	-	-	3	100"	90"	120"	5	3	3	100"	4	120"	10"	Default
	M-S	4	9	-	-	-	-	-	-	3	55"	90"	100"	4	3	3	55"	4	100"	10"	ľ
	Small	3	9	-	-	-	-	-	-	3	55"	90"	100"	3	3	3	55"	4	100"	10"	
																					I N
Blanket	Ex-large	7	18	4	130"	90"	165"	7	3	4	130"	90"	165"	7	3	4	130"	8	165"	10"	Default
	ExL-L	6 6	18 18	4	130" 100"	90" 90"	140" 140"	6 6	3	4	130" 100"	90" 90"	140" 140"	6 6	3	4	130" 100"	8	140" 140"	10" 10"	
	Large L-M	5	18	4	100"	90" 90"	120"	5	3	4	100"	90"	120"	5	3	4	100"	0 8	120"	10"	
	Medium	5	18	3	100"	90"	120"	5	3	3	100"	90"	120"	5	3	3	100"	8	120"	10"	
	M-S	4	18	3	55"	90"	100"	4	3	3	55"	90"	100"	4	3	3	55"	8	100"	10"	
	Small	3	18	3	55"	90"	100"	3	3	3	55"	90"	100"	3	3	3	55"	8	100"	10"	1
Jean	Ex-large	7	15	4	130"	90"	165"	7	3	4	130"	90"	165"	7	3	4	130"	8	165"	10"	
	ExL-L	6	15	4	130"	90"	140"	6	3	4	130"	90"	140"	6	3	4	130"	8	140"	10"	
	Large	6	15	4	100"	90"	140"	6	3	4	100"	90"	140"	6	3	4	100"	6	140"	10"	
	L-M	5	15	3	100"	90"	120"	5	3	3	100"	90"	120"	5	3	3	100"	6	120"	10"	
	Medium M-S	5	15 15	3	100" 55"	90" 90"	120" 100"	5 4	3	3	100" 55"	90" 90"	120" 100"	5	3	3	100" 55"	6 4	120" 100"	10" 10"	
	Small	3	15	3	55"	90"	100"	3	3	3	55"	90"	100"	3	3	3	55"	4	100"	10"	
	Official	Ŭ	10	Ŭ	00	00	100	0	Ŭ	U	00	00	100	Ŭ	0	0	00	-	100	10	1
Wool	Ex-large	7	3	4	130"	-	100"	7	3	4	130"	-	100"	7	3	4	130"	-	100"	10"	1
	ExL-L	6	3	4	130"	-	100"	6	3	4	130"	-	100"	6	3	4	130"	-	100"	10"	1
	Large	6	3	4	100"	-	100"	6	3	4	100"	-	100"	6	3	4	100"	-	100"	10"	Default
	L-M	5	3	3	100"	-	100"	5	3	3	100"	-	100"	5	3	3	100"	-	100"	10"	ľ
	Medium	5	3	3	100"	-	100"	5	3	3	100"	-	100"	5	3	3	100"	-	100"	10"	
					55"	-	100"	4	3	3	55"	-	100"	4	3	3	55"	-	100"	10"	
	M-S	4	3	3			400"	~					100"	3	3	2	55"	-	100"		
	M-S Small	4	3 3	3	55"	-	100"	3	3	3	55"	-	100	5	5	3	55	_	100	10"	1
Home Dry	Small	3	3	3	55"	-						1									1
Home Dry	Small Ex-large	3	3	3	55" 130"	-	100"	7	3	4	130"	-	100"	7	3	4	130"	-	100"	10"]
Home Dry	Small Ex-large ExL-L	3 7 6	3 6 6	3 4 4	55" 130" 130"	-	100" 100"	7 6	3	4	130" 130"	-	100" 100"	76	3	4	130" 130"	-	100" 100"	10" 10"	
Home Dry	Small Ex-large ExL-L Large	3 7 6 6	3 6 6 6	3 4 4 4	55" 130" 130" 100"	-	100" 100" 100"	7 6 6	3 3 3	4 4 4	130" 130" 100"		100" 100" 100"	7 6 6	3 3 3	4 4 4	130" 130" 100"		100" 100" 100"	10" 10" 10"	
Home Dry	Small Ex-large ExL-L Large L-M	3 7 6 6 5	3 6 6 6 6	3 4 4 4 3	55" 130" 130" 100"	-	100" 100" 100" 100"	7 6 6 5	3 3 3 3	4 4 4 3	130" 130" 100" 100"	- - -	100" 100" 100" 100"	7 6 6 5	3 3 3 3	4 4 4 3	130" 130" 100" 100"		100" 100" 100" 100"	10" 10" 10" 10"	▶Default
Home Dry	Small Ex-large ExL-L Large	3 7 6 6	3 6 6 6	3 4 4 4	55" 130" 130" 100"	-	100" 100" 100"	7 6 6	3 3 3	4 4 4	130" 130" 100"		100" 100" 100"	7 6 6	3 3 3	4 4 4	130" 130" 100"		100" 100" 100"	10" 10" 10" 10"	▶Default
Home Dry	Small Ex-large ExL-L Large L-M Medium	3 7 6 6 5 5 5	3 6 6 6 6	3 4 4 4 3 3	55" 130" 130" 100" 100"	- - - -	100" 100" 100" 100" 100"	7 6 5 5	3 3 3 3 3	4 4 4 3 3	130" 130" 100" 100" 100"	- - - -	100" 100" 100" 100" 100"	7 6 6 5 5	3 3 3 3 3	4 4 3 3	130" 130" 100" 100" 100"		100" 100" 100" 100" 100"	10" 10" 10" 10" 10"	▶Defaul

WASH OP HON	
Wash Time	3,6,9,12,15,18,21,25min
Rinse Times	1,2,3,4,5Times
Spin Time	1,2,4,6,8min

* No Power Spin : Spin by remained power
* Time Unit is minute in the chart (34" : 34 second)
* Total time for full process can be changeable depending on the water pressure.

2) WF-T852(A) Program chart

														Derauit													Default								Default									
		-	-	_	_	_	_	_	Г	_ 1	_ 1	_ 1	-î				Г		_ 1		_					-	Ē	-	-	-		Г	_ 1	Ť		_				1	Г	Т	٦	
	Power Off	10	10"	10"	10"	10"	10"	10"		10"	10"	10"	10	10"	10	10"		10"	10"	10"	10"	10"	10"	10	10"	10	10"	10"	10"	10"	10"		10	0	10"	10"	10"	10"	10"					
	No Power Spin	2.5	2	2	2	1.5	1.5	1.5	'	2	2	2	~	2	2	2		2.5	2	2	2	1.5	1.5	1.5	~	0	2	~	2	2	2		2	~	2	2	2	2	2					
Spin	niq& bəəq& dgiH	9	9	4	4	4	2	2		2	2	2	~	2	2	2		9	9	4	4	4	2	2											i.		•							
	Intermittent Spin	225"	225"	225"	225"	225"	225"	225"		225"	225"	225"	225"	225"	225"	225"		225"	225"	225"	225"	225"	225"	225"	225"	225"	225"	225"	225"	225"	225"		225"	225"	225"	225"	225"	225"	225"					
	Drain	4	4	4	3	з	з	З	-	4	4	4	ю	3	3	ო		4	4	4	з	ო	ю	с	4	4	4	e	с	3	з		4	4	4	3	з	3	3					
Π	pnisniA	ო	3	ю	З	с	с	ю		ო	ო	e	e	e	m	ო		ю	с	3	ю	ო	ю	с	¢.	n 1	3	e	ო	с	ю		ო	m	e	З	З	3	З					
D.	Water Supply	2	9	9	5	5	4	ю		~	9	9	S	2	4	e		7	9	9	5	ŋ	4	e	2	. 0	9	ъ	S	4	e		~	9	9	5	5	4	с					
2nd Deep Rinse	No Power Spin	2	2	2	1.5	1.5	1.5	1.5		2	2	2	2	2	2	2		2	2	2	1.5	1.5	1.5	1.5	~	5	2	2	2	2	2	-	2	~	2	2	2	2	2					
d Dee	niq& bəəq& dpiH	2	2	2	2	2	2	2		20"	20"	20"	20"	20"	20"	20"		2	2	2	2	2	2	2	,				,						ī				,					
2n	Intermittent Spin	225"	225"	225"	225"	225"	225"	225"		225"	225"	225"	225"	225"	225"	225"		225"	225"	225"	225"	225"	225"	225"	225"	225"	225"	225"	225"	225"	225"		225"	225"	225"	225"	225"	225"	225"					
	Drain	4	4	4	ю	с	с	с		4	4	4	e	e	m	ო		4	4	4	з	ო	ю	e	4	4	4	e	ę	e	с		4	4	4	ю	З	3	3					
	pnisniA	e	3	e	з	с	с	с	ſ			•	•	•		ı		з	з	3	з	ო	ю	с	¢.		3	e	ო	e	ю	-	ო	ო	с	з	3	3	З					
	Water Supply	7	9	9	5	5	4	ю				,	•			,		7	9	9	5	S	4	e	7	. 9	9	2	5	4	с	1	7	9	9	5	5	4	3					
	No Power Spin	2	2	2	1.5	1.5	1.5	1.5				,	•			,		2	2	2	1.5	1.5	1.5	1.5	~	0	2	2	2	2	2		2	~	2	2	2	2	2					
e.	niq& bəəq& dpiH	20"	20"	20"	20"	20"	20"	20"			,	,	,		,	,		2	2	2	2	2	2	2	,									'	ī	,	ı		,					
Deep Rinse	Intermittent Spin	128"	128"	128"	128"	128"	128"	128"			ı	,			ı	ī		ı			,	ı		'	,									'	ī	-			,					
	Drain	4	4	4	3	3	3	3		•	ı		,		ı	ī		ı	,	-	·	ı		,	,		1		ı				•	,	ī	-	ı	-						
1st	Rotate Shower	1.5	1.5	٢	1	45"	45"	45"		•	ı		,	•	ı	ı		I			1	ı	,	,	,		1		ī	•			•	ı	1	-	ı	-	-					
	No Power Spin	2	2	2	1.5	1.5	1.5	1.5		•	ı		,	•	ı	ı		I			1	ı	,	,	,		1		ī				•	ı	1	-		-	-					
	Intermittent Spin	128"	128"	128"	128"	128"	128"	128"			•		•	•	•	ī		225"	225"	225"	225"	225"	225"	225"	225"	225"	225"	225"	225"	225"	225"		225"	225"	225"	225"	225"	225"	225"					
	Drain	4	4	4	С	ო	ო	ო		•	ı	•	•	÷	ı	ı		4	4	4	ო	ო	e	ო	4	4	4	ო	ო	ო	ო		4	4	4	С	ო	ю	с					
Wash	pnidseW	21	21	15	15	15	6	6		9	9	9	9	9	9	9		21	21	15	15	15	6	6	¢.	3	3	e	с	З	3	,	9	9	9	9	9	6	9			3,0,9,12,10,18,21	1,2,4,6,8min	
Wa	Water Supply	2	9	9	5	2	4	с		~	9	9	2	2	4	ო		7	9	9	5	2	4	с	2	. 9	9	2	2	4	ę		~	9	9	5	5	4	с			3,0,9,	1,2,4,	
		Ex-large	EXL-L	Large	L-M	Medium	M-S	Small		Ex-large	ExL-L	Large	L-M	Medium	S-N	Small		Ex-large	ExL-L	Large	L-M	Medium	M-S	Small	Ex-large	EXL-L	Larde	L-M	Medium	N-S	Small	-	Ex-large	ExL-L	Large	L-M	Medium	M-S	Small		NOI			
		Normal								Speedy								Jean							Mool							:	Delicate								WASH UP I IUN	vasn Ime	Spin Time	

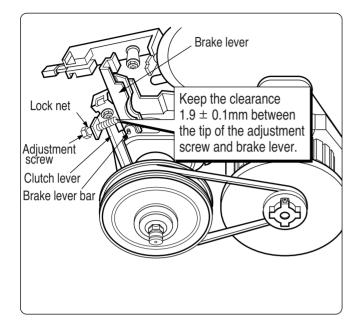
* No Power Spin : Spin by remained power * Time Unit is minute in the chart (34" : 34 second) * Total time for full process can be changeable depending on the water pressure.

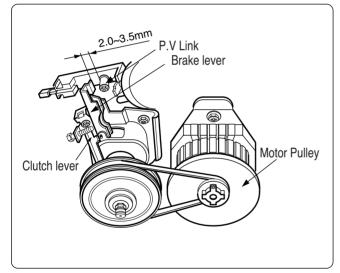
3) WF-T(F/C)1091~3, 1191~3T(C/H/P) / WF-T(F/C)1022,1122,1001T(C/H/P) WF-T1268TH, 2409KTb, 2602kTa, T1491TP, T1081TP, LA-1499ST WF-T1491TP, T11292TP, T1292TP, T1291TP, T853A, T1592TP, T1593TP, T1241TP, T1133TH WF-G15KTB, G13KTC, B15KTB, B13KTC / WF-T1400TH, T1022TPX

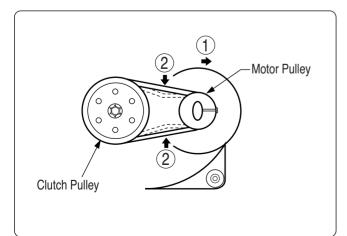
		-							-					-											Default							Default										
	Power Off	10"	10"	10"	10"	10"	10"	10"	10"	10"	10"	10"	10"	10"	10"	10"	.01	10"	10"	10"	10"	10"	10"	10"	10"	10"			10		10"		10"	10"	10"			10"	10"	10"		
	No Power Spin	2	2.5	2	2	2	1.5	1.5	1.5	2	2	2	2	2	2	2	N	2	2.5	2	2	2	ר 1 ק	1.5	2	2	~	~	~ ~	v c	7		2	2	2	2	2	2	2	2		
Spin	niq2 bəəq2 dgiH	5	5	5	5	2	5	e	ო	5	ო	З	ю	e	m	<i>с</i> о	υ	5	5	5	5	5	ۍ م	о С	5		•		•				5	ī						•		
	Intermittent Spin	194"	194"	194"	194"	194"	194"	194"	194"	194"	194"	194"	194"	194"	194"	194"	194	194"	194"	194"	194"	194"	194"	194"	194"	194"	194"	194"	194"	194	194"		194"	194"	194"	194"	194"	194"	194"	194"		
	Drain									4				ო		<i>с</i> о		4		4											იო							e				
П	gnisniA	ო	ო	ო	ო	ო	ო	ო	ო	с	ო	3	ю	ო	ო	<i>с</i> о	υ	с	e	с	ო	ო	ი ო	n 19	ო	ო	ო	ო	ო ძ	ົ່	იო		ო	ო	ო	e	e	e	с С	ო		
Ð	Water Suply	7	7	9	9	2	5	4	ო	7	7	6	9	5	5	4	υ	7	7	9	9	5	- 2	r σ	7	7	9	9	ц С	n -	t ω		2	7	9	9	5	5	4	ო		
Deep Rinse	No Power Spin	2	2	2	2	1.5	1.5	1.5	1.5	2	2	2	2	2	2	2	N	2	2	2	2	1.5	1.5 7	1.5	2	2	~	2	~ ~	v c	2		2	2	2	2	2	2	2	2		
d Dee	niq8 bəəq8 dpiH	2	2	2	2	2	2	2	2	2	20"	20"	20"	20"	20"	20"	20	2	2	2	2	2	~ ~	101	2		•		•				2	ı				,				
2nd	Intermittent Spin	194"	194"	194"	194"	194"	194"	194"	194"	194"	194"	194"	194"	194"	194"	194"	194	194"	194"	194"	194"	194"	194"	194"	194"	194"	194"	194"	194"	194	194"		194"	194"	194"	194"	194"	194"	194"	194"		
	Drain	4	4	4	4	З	e	З	ო	4	4	4	4	З	ო	en o	υ	4	4	4	4	з	с С	n N	4	4	4	4	с С	n c	იო		4	4	4	4	3	e S	ۍ ۱	ო		
Π	gnisniA	e	ო	ო	ო	e	ო	e	ო	'					ı	•	·	ო	ო	З	ი	e	ო ო	n N	с	ო	ო	ო	с и	ົ່	າຕ		ო	ო	ო	e	ю	e	ر س	ო		
	Water Suply	7	7	9	9	5	5	4	ო	'			·		ı	•	•	7	7	9	9	5	2	rε	7	7	9	9	ις ι	0 -	t ω		7	7	9	9	5	5	4	e		
	No Power Spin	2	2	2	2	1.5	1.5	1.5	1.5	'			·		ı	•	•	2	2	2	2	1.5	1.5 7	1.5	2	2	2	2	2	v c	7		2	2	2	2	2	2	2	2		
Φ	niq2 bəəq2 dgiH	20"	20"	20"	20"	20"	20"	20"	20"	'	•				ı	•	•	20"	2	2	2	2	2 0	2	•	•		•	•				•	ı			•			•		
Deep Rinse	Intermittent Spin	128"	128"	128"	128"	128"	128"	128"	128"	,				,	ī		•			,		,					•							ı	•				1	'		
1st Deel	Drain	4	4	4	4	e	e	с	ო	,				,	ī		•			,		,					•							ı	•			,	1	'		
1	Rotate Shower	30"	30"	30"	30"	30"	30"	30"	30"	,					ı						•	,					•		•					ı					,	•		
	No Power Spin	2	2	2	2	1.5	1.5	1.5	1.5	'			·		ı	•	•				•	'				•	•	•	•				•	ı			•	•	,	•		
	Intermittent Spin	135"	135"	135"	135"	135"	135"	135"	135"	,		-	·		ı		•	135"	194"	194"	194"	194"	194"	194"	135"	194"	194"	194"	194"	194	194"		135"	194"	194"	194"	194"	194"	194"	194"		
	Drain	4	4	4	4	З	e	з	ო	,	•		ī		ı	ı	•	4	4	4	4	з	с, с	n N	4	4	4	4	<i>с</i> о о	n c	n n		4	4	4	4	С	e	ر	e		
Wash	gnidseW	15	18	18	18	18	15	10	5	9	9	9	9	9	9	9	٥	15	18	18	18	18	15	5	5	2	2	S	ις ι	0 4	a n		10	10	10	10	10	10	10	10		
Wa	Water Suply	7	7	9	9	5	5	4	ო	7	7	9	9	S	S	4	υ	7	7	9	9	5	-Ω 2	rε	7	2	9	9	ις ι	∩ ¬	τ ω		7	7	9	9	5	2	4	ო		
		Extreme-Large	Ex-large	ExL-L	Large	L-M	Medium	M-S	Small	Extreme-Large	Ex-large	ExL-L	Large	L-M	Medium	M-S	Smail	Extreme-Large	Ex-large	ExL-L	Large	L-M	Medium M S	Small	Extreme-Large	Ex-large	ExL-L	Large	L-M	Medium	Small		Extreme-Large	Ex-large	ExL-L	Large	L-M	Medium	M-S	Small		
	Normal									Speedv	-							Jean							Wool								Delicate									

* No Power Spin : Spin by remained power * Time Unit is minute in the chart (34" : 34 second) * Total time for full process can be changeable depending on the water pressure.

4-4. ADJUSTMENT







1) BRAKE LEVER ADJUSTMENT

 Shown as in the figure, untighten the adjustment screw to keep clearance less than 1.9±0.1mm between the tip and the brake lever.
 And turn on the lock nut then paint it red.

CAUTION

- Painting part is adjusted in factory, it does not need adjusting.
- Adjust the screw properly if the brake doesn't work during spin.

2) KEEPING CLEARANCE

• Keep the clearance about 2.0~3.5mm between brake lever and P.V link as shown in the figure.

CAUTION

- Clutch pulley must be turning to one side P.V Link is pulling the brake Lever.
- Clutch pulley must be turning to the left and the right when P.V Linke does not pull the brake Lever.

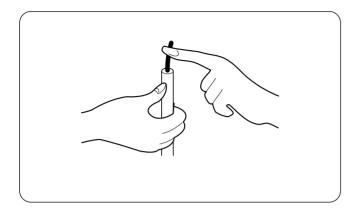
3) V-BELT ADJUSTMENT

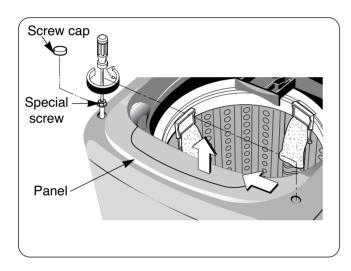
• Adjust the motor pulley by pushing the motor like arrow ①, to make V-belt tension parallel when pushed at the point of arrow ②.

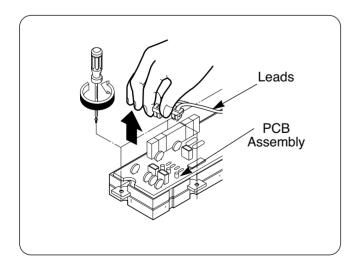
CAUTION

• When the V-belt is not properly adjusted, the motor will not be running or the belt will be slipping.

4-5. DISASSEMBLY INSTRUCTION







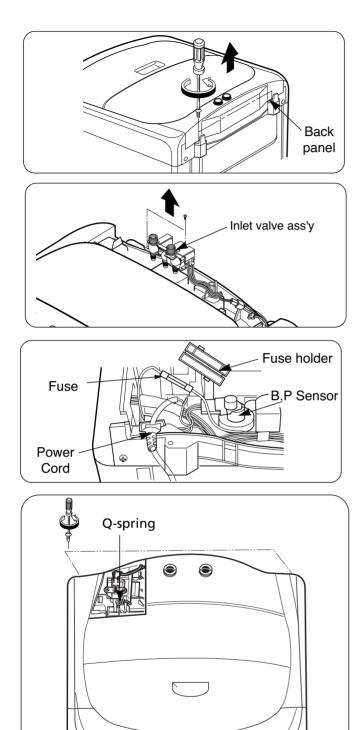
Be sure to unplug the power to repair and replace electric parts.

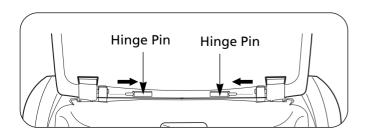
CAUTION FOR ELECTROSTATICS

Be sure to make earth connection for trouble diagnosis and parts replacement. If impossible, touch earth wire on the body to remove electric deviation between the body and product before work.

1) Disassembly of Front Panel & PCB Assembly

- Remove two screw caps using a sharp tool and two special screws.
- 2 Push the front panel to the left side then pull it out
- (3) Disconnect the leads from the controller
- (4) Remove 4 screw from the front panel
- **(5)** Remove the PCB Assembly.



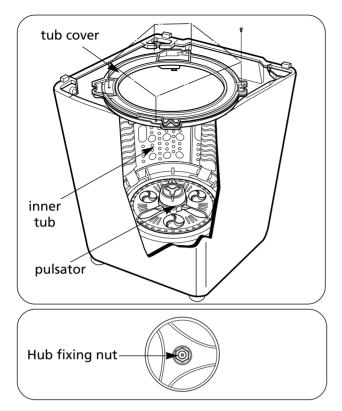


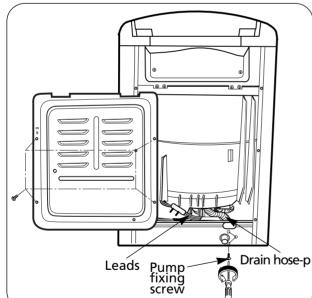
2) Disassembly of Back Panel, Power Cord, Inlet Valve & BP Sensor

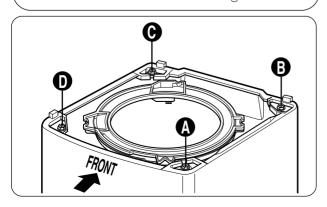
- Remove two back panel fixing screws in the back side.
- 2 Disassemble the back panel.
- ③ Disconnect two connectors and disassemble the power cord.
- ④ Remove a valve fixing screw & disconnect the leads form the inlet valve.
- **(5)** Remove the inlet valve.
- ⑥ Disconnect the leads & the pressure tube from the BP sensor.
- Remove the BP sensor.
- Fuse is located in the Fuse holder.
 - For fuse replacement use the following rated fuse
 - * Rating of fuse
 - 250V 6A fusing type for 220-240V product
 - 125V 12A fusing type for 100-127V product

3) Disassembly of Lid Assembly, Top Cover, Tub Cover, Pulsator & Inner Tub

- Remove Q-spring & two hinge pins then disassemble the lid assembly
- ② Remove two top cover fixing screws in the rear then disassemble the top cover.
- ③ Remove tub cover fixing screws then disassemble the tub cover.
- ④ Remove the pulsator fixing screw then disassemble the pulsator.
- (5) Remove the hub fixing nut by a special tool.
- ⁽⁶⁾ Disassemble the inner tub.







4) Disassembly of Back Cover, Drain Pump, Clutch(Transmission) & Motor

- Remove back cover fixing screws then disassemble the back cover.
- ② Disconnect the leads and the drain hose-p from the drain pump.
- ③ Remove the pump fixing screws then disassemble the drain pump.
- (4) Fall down the washer for clutch & motor removal.
- (5) Remove the belt.
- 6 Disassemble the clutch.
- Remove two motor fixing screws then disassemble the motor.

5) Replacement of Damper asm

- ① Separate top cover from washing machine.
- ② As in the fig, lift snubber bar and take it out of out case with out tub.
- ③ Damper assembly shall not be disassembled. Replace damper as assembly.
- (4) For assembly, keep the following.(Location & color)

Location	P/No.	PIVOT(Color)
() , ()	A051	MIDDLE BLUE
() , ()	A052	WHITE

4-6. TEST RUNNING WITHOUT WATER

1) METHOD TO USE QC TEST MODE

To use check program (QC test mode), power ON with water temperature and water level. Key pressed in non-load empty water.

No.	Check points	Check method Start/Pause		Normal condition	Normal condition		Remedy
		KEY PUSH Press	Load	Displ	lay		
1	LED and	Begining point	Buzz once	LED on all No.200 displayed		-	Check pressure S/W assembly.
	Pressure (check level)	Sensor	LEVEL sensor displayed. Frequency display	• No.264~270) is		 Check connector. Replace controller's IC3.
2	Motor	Press once	Pulsator rotates to left four times and right four times.	• No.70~125 is displayed.			 Check in unload condition. Check connector. Check driving part (Motor, Clutch, V-belt, Capacitor).
3	Cold water valve	Press twice	Cold valve starts.	50Hz	60Hz НБ:2	-	
4	Hot water valve	Press three time	 Hot water valve starts 	H5 : 3	H5 : 3		 Top filter of supply valve is clogged with dregs. Check connector. Check if TR3(hot) TR4(cool) and
5	Shower valve	Press four times	• Shower valve starts	H5:4	H2:4	-	TR5(shower) are ON in load driving Part of connector asm.
6	Check drain valve	Press five times	• Drain valve ON(Turbo Drum).	H5 : 5	H5:5	Door error (Buzz continued)	 Check door. Check drain hose and drain motor. Check connector. Check TR6 in controller asm.
7	Check the drain Pump.	Press Six times	 Drain Pump ON Drain Valve ON 	H5 : 8	H2:2		 Check drain pump Check TR8 in controller asm. Check connector.
8	Check the AUTO OFF switch.	Press Seven times	Power off within 1 sec.	LED off			

4-7. TROUBLE SHOOTING AGAINST 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 Do not pretreat stain 	 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 12) Reduce load size. Wash with Jean or Soak(Turbo) & Jean 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. Wash. Do not overfill fabric softener dispenser and do not pour liquid fabric softener directly onto fabric. See page 14 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 minutes 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.

4-8. TROUBLE SHOOTING METHODS ACCORDING TO ERROR MESSAGE

► For more detailed information for trouble shooting refer to page 38 to 49.

Error	Determination	Expected cause	Remedy
		1. Locked or frozen water tap.	 Open water tappet for water supply.
		2. Obstructed water supply.	 Wash at supply condition.
		3. Top filter of supply valve is clogged with dregs.	Clean or chunge filter.
INLET Er	Water supply doesn't	4. Connector of supply valve is disassembleed or wrongly contacted.	 Reconnect connector or adjust wrong contact.
lamp blinks.	reach set level within 60 minutes.	5. Yellow 2 pin connector of controller ASM is disassembled or wrongly contacted.	 Reconnect connector and adjust wrong contact.
		6. TR3 (hot), TR4 (cool), TR5 (shower) are not ON at load drive part of controller ASM.	 Check load drive parts of TR3, TR4 and TR5, and replace related parts.
		7. Drain hose is not hung up.(Pump Model)	• Hung up drain hose.
		1.Drain hose is not put down (Non Pump Model)	Put down drain hose properly. (0.9~1.3m high)
	When drain is not finished within 12 minutes at drain course.	 Drain hose is bent or clogged (Frozen or clogged with dregs). 	Clean clogged drain hose.
DRAIN Er		3. Connector of drain motor or white 2 pin connector of controller ASM is disassembleed or wrongly contacted.	 Reconnect connector and adjust wrong contact.
lamp blinks.		4. Wrong drain motor (As AC 220V is applied to both ends of drain motor, the link opens the drain valve.)	Replace drain motor.
		5. TR8 is not ON at load drive part of controller ASM.	Check load drive part of TR8. Replace related parts.
		6. Wrong drain pump. (Pump Model)	• Check drain pump.
		7. Drain hose is hung up highly (over 1.3m)	• Hang up drain hose properly (0.9~1.3m high)

Error	Determination	Expected cause	Remedy
	Unbalanced water for	1. Water is partially filled in inner tub asm.	 Fill water evenly into inner tub asm.(horizontally)
SPIN Er		2. Machine is slopped (Check drop position of leveller).	 Adjust machine height horizontally.
lamp blinks.	spin procedure.	3. Safety switch is too closer to inner tub asm or safety switch contacted wrongly.	 Check and replace safety switch.
		4. Is the CONNECTOR of Ball Pressure Sensor disconnected or badly touched?	Check B.P SENSOR CONNECTOR or replace B.P sensor
		1. Lid is opened during all washing procedure.	• Close lid.
DOOR Er lamp blinks and	Opened lid during washing procedure. (wash, rinse and spin) Opened lid during delay finish program.	2. Lid is opened during reservation program.	• Close lid.
continuous buzz		 Connector of safety switch or violet (VI) 2 pin of controller asm is disassembled or left wrong contact. 	 Connect connector again or adjust wrong contact.
		4. The safety switch is wrong. (It is ON in case of the lid closed.)	 Check and replace safety switch.
		5. Ball Pressure Sensor is bad or bad contact.	Check and replace Ball Pressure Sensor.
<u>PE</u>	Frequency generated by recognizing water level at pressure switch is out of	1. The connector of Ball Pressure Sensor (Pressure Switch) or the blue 3 pin connector of the controller ASM is disassembled or connected wrongly.	 Connect connector again and adjust wrong contact.
displayed.	reference value (below 15kHz)	2. Wrong Ball Pressure Sensor (Pressure Switch).	 Replace Ball Pressure Sensor (Pressure Switch).
		3. Wrong controller asm.	Replace controller asm.
	Frequency generated	1. Defect of inlet valve.	Replace the inlet valve.
displayed.	by recognizing water level at pressure switch is out of reference value (below 22KHz)	2. Defect of PWB asm.	 Replace the PWB asm.

4-9. HOW TO DIAGNOSE AND REPAIR BY SYMPTOM

1) Washer is not energized.

Where, what & how to check?	Result of Check	Possible Cause	How to repair & settle
Household Power supply			
1. Check whether connection between the plug and the electrical is poor	Poor	Defect of the electrical	Change the electrical.
2. Measure voltage of the electrical.	Around rating	No defect	
	ov	Defect of household power supply	Call for power supply company
Wiring of the Washer			
1. Measure resistance between both	Less than 1 Ω	No defect	
ends of the power supply cord with both the plug pins short-circuited.	$\propto \Omega$		
		Open circuit of the power supply cord	Change the power supply cord.
2. Check whether every connector in the bundle of connectors has a good connection.	Male & female connectors separated	Poor connection.	Remove the cause to give strain and reconnect them.
3. Check resistance of every wire to find out a open wire.	Ω ∞	Wire is opened.	Change the lead wire.
Electrical component	Less than 0.5 Ω		
1. Check resistance with power relay		No defect	
switch turned on	More than 1.0 Ω	Poor contact	Change the Auto Off Switch
2. Check the secondary voltage of the	10~14V	No defect	
transfomer.	OV	Coil is open	Change the transfomerformer.
3. Measure resistance to check whether the T.P of the motor is blown out.	∞ Ω and motor is hot	T.P blown out	Remove cause to overload the motor
4. Check whether the fuse is open.	Open	Defect of the fuse	Change the fuse. CAUTION Check the fuse rating AC100~127V:125V 12A AC220~240V:250V 6A
Controller			
If there are no defects in the above,	Over 120% voltage than		Change the controller
it should be defect of the controller.	rating check		if all the electrical parts have no defects.
If supply voltage is 120% higher than rating the varistar in the controller may be broken. Check supply voltage.			

2) Defects on displaying function

Where, what & how to check?	Result of Check	Possible Cause	How to repair & settle
Main voltage 1. Measure mains voltage at the wall outlet	Less than 85% of the rating.	Low voltage.	To explain that it is caused by low voltage in electric supply and recommend using a transfomer if voltage has been continuously low.
2. Meaure voltage at the extended outlet that the washer is plugged in if the extended outlet is used and voltage at the electrical outlet is normal in the above.	Less than 85% of the rating	The dia of the lead wire is smaller or many loads are connected at the same outlet	To use a transfomer having a enough capacity if using a transfomer.
Transfomer 1. Measure the secondary voltage of the transfomer.	Less than AC 10V	Defect of the transfomer.	Change the controller.
Controller 1. Defect of LED. 2. Defect of LED driving circuit. 3. Defect of micom.		Defect of controller.	Change the controller.

3) Reset During operation

Where, what & how to check?	Result of Check	Possible Cause	How to repair & settle
Mains Voltage			
1. Measure voltage of the outlet that the washer is plugged into during wash and spin.	Less than 80% of the rating.	Mains voltage is too low or size of a lead wire is too small.	Explain that it is caused by low voltage in electric mains and recommend using a suitable size of leads.
 Reset symptom happens at specific time zone repeatedly. 		External noise inrushed.	Explain it is caused by using environment. (It happens when equipment with high frequency is used around)
 3. Check whether a transfomerlent power cut happens. (Fluorescent lamp is transfomeriently blinked.) 			Explain it is a problem of electric supply environment.

3) Reset during operation

Where, what & how to check?	Result of Check	Possible Cause	How to repair & settle
Drain Motor			
1. Operate washer setting spin only, then press the start/pause button when the wash motor starts to work and then press the start/pause button again in order for the drain motor to work intermittently.	Reset happens after the drain motor works.	Defect of the drain motor (A noise generated when the internal relay works.)	Change the drain motor
Controller			
1. If mains voltage and the drain motor have no defects a defect of the controller is highly possible.			Change the controller.

4) Water doesn't come into the wash tub.

Where, what & how to check?	Result of Check	Possible Cause	How to repair & settle
Inlet Valve			
 If water doesn't come though the inlet valve works(electric sound occurs) Check whether water mains is cut. 	Water mains cut.	Mains cut.	Explain.
2) Check whether tabs are turned on.	Don't tumed on.	Mistake of use.	Turn on the tap.
 Hot & cold tab are opposite connected. 	Connected opposite.	Wrong installation.	Correct their locations and turn on the tap.
 Wrongly select water temperature option. 	Selected opposite.	Mistake of use.	Explain how to use.
5) If there are no problems in the above, check the inlet valve filters after disconnecting the water supply hoses.	Filters blocked by foreign substance.	Don't clean.	Clean them by brush and explain cleaning regulary them.
6) If there are no problems in the above a diaphragm hole in the valve is blocked by foreign substance or the plunger in it is locked.		Defect of the inlet valve.	Change the inlet valve.
 If the inlet valve doesn't work(there is no electric sound)during filling cycle. Check whether it's connectors are taken off or they have poor 	A connector is taken off.	Defect of contact.	Reconnect it or remove the causes to make poor
connection.			connection.
2) Check resistance of the inlet valve.	∞ Ω	Coil is open	Change the inlet valve.

4) Water doesn't come into the wash bowl.

Where, what & how to check?	Result of Check	Possible Cause	How to repair & settle
 Ball Pressure Sensor (Pressure Switch) 1. Is there PE error on the display which means Ball Pressure Senosr (Pressure Switch) error 	PE Error displayed.	Connector is taken off, or lead or coil is open.	Reconnect the connector or change leads. Change the Ball Pressure Sensor (Pressure Switch) if coil is open.
2. Check frequency of the Ball Pressure Sensor(Pressure Switch) without load if wash is proceeding without filling.	Less then 26.2kHz	Defect of the Ball Pressure Sensor (Pressure Switch)	Change the Ball Pressure Sensor (Pressure Switch).
Controller 1. Defect of controller is highly possible if inlet valve and Ball Pressure Sensor have no defects in the above.			Change the controller.

5) Water fills continuously or intermittently.

Where, what & how to check?	Result of Check	Possible Cause	How to repair & settle
Wrong Installation/Leakage 1. Check whether the drain hose is laying down on the floor. (For pump model)	Drain hose laying down.	Wrong installation.	The drain hose should be hung on the stand-pipe or the tub. Change the part.
2. Check where water leaks.	Water leaks from a part.	Defect of the part.	Repair it.
Ball Pressure Sensor (Pressure Switch)1. Check the pulsator is rotating when water fills continuously.	It doesn't rotate.	Water pressure is not sensed.	Check the tube of the Ball Pressure Sensor (Pressure Switch), it is bent or blocked, repair that.
2. If there is no defect in the Ball Pressure Sensor(Pressure Switch), check whether the air hole of the outer tub is blocked.	Blocked.	Air hole blocked.	Repair the blocked hole.
Inlet Valve 1. Does water fills even though it is not energized (power is off)?	Water fills.	Defect of the inlet valve.	Change the inlet valve.
Controller 1. Does water fill immediately after the power switch turns on before pushing the start/pause button.		Short circuit of the triac of the controller.	Change the controller.

6) Pulsator doesn't rotate normally.

Where, what & how to check?	Result of Check	Possible Cause	How to repair & settle
Pulsator rotates at one direction.1. The Pulsator rotates normally at the beginning of wash cycle, but is it not rotate at clockwise direction (locked) after some wash cycles though there is motor-working sound?	Clockwise rotation locked.	Unusual operation.	Turn the power off and on again then that symptom disappears. Explain "Don't run wash only continuously".
 2. In the case the pulsator doesn't rotates either clockwise or counterclockwise from the beginning of wash cycle: 1) Check resistance of the wash motor if there is no motor-working sound. 	Resistance is normal.	Defect of controller or poor contact of connectors of motor leads.	Change the controller if there are no contact defects in the leads of the motor.
 Check belt tension & whether the clutch rotates normally if there is motor-working sound. 	V-belt is loose.	Loose the belt.	Adjust belt tension by changing motor fixing location and change the belt if it is impossible to adjust belt tension.
	Clutch locked.	Defect of the clutch.	Change the clutch if the clutch pulley is locked when making it rotated clockwise and counterclockwise by hand.
3. The pulsator doesn't rotate at both directions.	Motor rotates at both directions.	Loose the belt.	Adjust belt tension or change the belt if it is impossible to adjust.
 Check whether motor rotates at both directions if there is motor- working sound when it's 		The plusator locked.	Remove cause locking the pulsator
energized.		Defect of the clutch.	Change the clutch.
	Motor doesn't rotates at both directions.	Defect of the capacitor.(check the capacitor's capacitance)	Change the motor if the motor is locked when having its shaft rotated by hand.
		Defect of the motor.	Change the capacitor if there is no contact defect in capacitor's lead
2) Check resistance of the motor if	∞ Ω	Motor coil is open.	Change the motor.
there is no motor-working sound.	Normal resistance.	Contact defect of the leads.	Remove the causes.

6) Pulsator doesn't rotate normally.

Where, what & how to check?	Result of Check	Possible Cause	How to repair & settle
4. Pulsator weakly rotates.1) Check voltage at the power outlet where the washer is plugged into.	Less than 85% of rating.	Lower voltage.	Explain the causes and a transfomer should be used if necessary.
2) Check capacitance of the capacitor.	Indicating needle rises and immediately indicates ∞ .	Capacitor is normal.	
	The needle is stopped after it is raised.	Lack of capacitance of the capacitor.	Change the capacitor.
	The needle doesn't move.	Capacitor is fully discharged.	Change the capacitor.

7) Water does not drain.

Where, what & how to check?	Result of Check	Possible Cause	How to repair & settle
Drain Pump 1. Check whether there is drain pump working sound.	There is pump working sound.	Drain pump is blocked by foreign objects.	Disassemble the drain pump cap and remove the foreign objects in the pump casing.
2. Check resistance between terminals if there is no working sound of the drain pump.	∞ Ω	It's coil is open.	Change the drain pump.
3. Check connection parts of the leads if there is no working sound and its resistance is normal.	Defect in connection part.	Defect in connection part.	Repair defected connection.
	Connection part has no defects.	Defect of the controller.	Change the controller.
Drain Hose	Kinked.	Defect of installation.	Reinstall so that it should not be kinked.
1. Check whether the drain hose is put in a narrow space and kinked.			
2. Check whether the internal drain rubber asm is bent.(For Non-pump model)	Bent.	Defect of the drain rubber asm.	Change the drain rubber asm.
 Check whether the end of the drain hose submerged into water or higher than required. (For non-pump model) 	Submerged or higher than required.	Defect of installation.	Re-install so that it can't be submerged or not higher than required.

7) Water does not drain.

Where, what & how to check?	Result of Check	Possible Cause	How to repair & settle
4. Check whether the drain hose is blocked by foreign objects. It may happen in case of the hose is a little kinked.	Blocked.	Blocked hose.	Remove the objects and reinstall so that it can't be kinked.
PV Case			
(for Non-Pump Model only) 1. Check whether the PV asm is blocked by foreign objects.	Blocked.		Separate the drain motor from the PV link, disassemble PV cover and then remove the foreign objects within PV case. Check the washer works normally after repair and reassembling them. (PV link & drain motor lever should be assembled accuratel.)
Drain Motor (For Non-Pump Model only) 1. Check resistance of the drain motor if it can not pull the PV link.	∞ Ω	Drain motor coil is open.	Change the drain motor →Check the washer works normally after reassembling. (PV link & drain motor lever should be assembled accurately.)
	Resistance is normal.	Contact defect in connection parts or defect of the controller.	Change the controller if there is no defects in the connection parts.

8) Water drains though it is not the time of drain.

Where, what & how to check?	Result of Check	Possible Cause	How to repair & settle
<u>Drain Motor</u> (for Non-Pump Model only)			
 Check whether the drain motor is normally returned after turning power off. (It is considered normal if the lever of the drain motor is fully pulled out by the PV spring) 	Blocked.	Defect of the drain motor.	Change the drain motor.
PV Case			
1. If water drains though the drain motor is normally returned, check	Blocked.		Remove the objects in the PV asm.
whether PV asm is blocked by foreign objects or the bellows in the PV asm is deformed.	Bellows deformed.	Defect of PV Bellows.	Change the PV bellows. (The bellows may swell up if it contact petroleum or petrochemical substance because it is made of rubber)
Controller			
1. Check whether the drain motor or the drain pump works immediately after power is turned on.	Works.	Defect of the controller(Triac defect)	Change the controller.

9) Drain error happens while water drains normally.

Where, what & how to check?	Result of Check	Possible Cause	How to repair & settle
Ball Pressure Sensor(Pressure Switch)1. Check generation frequency of the Ball Pressure Sensor	Less than 26.3 kHz	Defect of the Ball Pressure Sensor(Pressure Switch).	Change the Ball Pressure Sensor (Pressure Swtich)
(Pressure Switch) without water.	26.3~27.1 kHz	Defect of the controller.	Change the controller.

10) Spin extraction is not proceeded.

Where, what & how to check?	Result of Check	Possible Cause	How to repair & settle
<u>Motor</u>			
1. In the case that the wash motor does not spin during spin extraction;	There is motor working sound.	Defect of the capacitor or Mechanically	Change the capacitor after checking defect of capacitor.
 Check there is motor working sound,or 		locked.	check whether the washing clutch or the washing tub is blocked if the motor rotates after removing the V-belt. Check whether the
			motor is locked if the motor does not rotates even though the V-belt being removed.
 2) If there is no motor-working sound; ① Check frequency of the Ball Pressure Sensor (Pressure Switch), under no load, or 	Less than 26.3kHz	Defect of the Ball Pressure Sensor (Pressure Switch).	Change the Ball Pressure Sensor(Pressure Switch).
② Check contact defect of the safety switch, defect of connection parts	The lid is open	Mistake in use.	Explain "The lid is close during operation"
and whether the lid is open if door error is displayed.	Defect of connection part.		Reconnect the conncetors.
③ Is placed the magnetic in Lid-B.	The lid is open.	Mistake in use.	Explain"The lid is close during operation"
	Defect of magnetic in LID-B		Change the Lid-B
④ Check resistance of the motor.	Contact defect of the Ball Pressure Sensor(Safety Switch)		Change the Ball Pressure Sensor(Safety Switch).
	∞ Ω	Coil is open.	Change the motor.
 Drain Motor/Clutch 1. In the case the motor rotates but the inner tub does not rotates; 1) Check resistance of the drain motor if the drain motor doesn't work,or 	$\infty \Omega$ Resistance is normal	Coil is open. Defect of connection part or defect of the	Change the drain motor. Change the controller after checking connection parts.
2) Check gap between the PV link and the brake lever if the inner	The clearance is less than 2.0mmor more then 3.5mm	controller. Assembling defect of the drain motor or the clutch	Reassemble the drain motor or the clutch to keep the clearance.
tub does not rotates while the drain motor works.	The gap is normal (2.0~3.5mm)	Defect of the clutch.	Change the clutch.

11) Spining is going on even though the lid is open.

Where, what & how to check?	Result of Check	Possible Cause	How to repair & settle
Safety Switch 1. Check resistance between both terminals of the safety switch with the lid open.	0~9Ω	Contact points of the safety switch are welded.	Change the Safety Switch
	Ω∞	Defect of the controller.	Change the controller
Ball Pressure Sensor 1. Is placed the magnetic on the wash?	Yes	Reed S/W is short by magnetic on the washer.	Keep magnet away from the washer.
	No	Reed Switch.	Change the controller.

12) Spin basket doesn't reach to full speed(normal rpm)

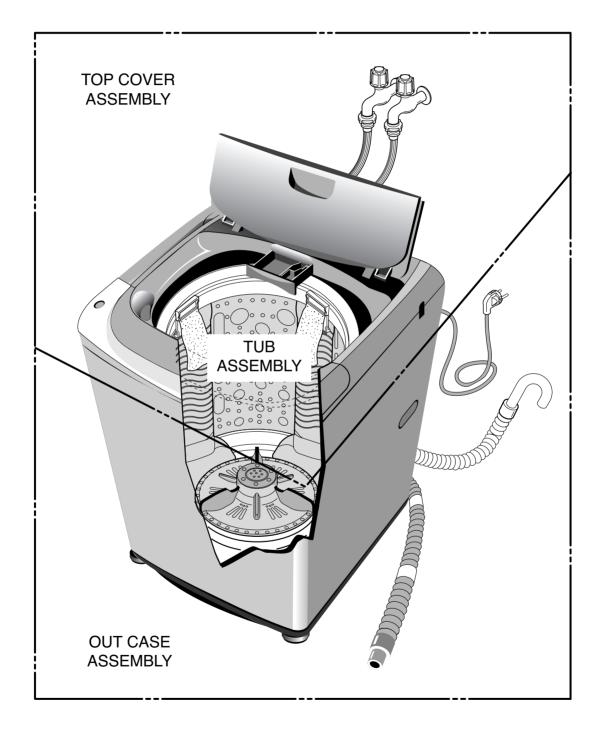
Where, what & how to check?	Result of Check	Possible Cause	How to repair & settle
Main voltage 1. Check voltage at the power outlet where the washer is plugged into.	Less than 85% of rating	Tool low voltage	Explain the cause and recommend using a transfomerformer if necessary.
Starting Capacitor 1. Check the capacitance of the starting capacitor.	Lack of capacitance	Defect of capacitor	Change the capacitor
Clutch Assembling 1. Check the clearance between the PV link and the brake lever and clearance between the clutch lever	The clearance is less than 2.0mm or more than 3.5mm		Adjust PV lever bolt and paint it red. Reassemble the drain motor or the clutch.
and the adjustment bolt.	Bolt clearance is out of range 1.9±0.1mm	Defect of the clutch	Adjust the bolt clearance.
Blocked by foreign objects 1. Check whether the PV asm, the drain pump & the drain hose are blocked by foreign objects so that it makes water-splashing noise in the tub.			Remove the foreign objects.

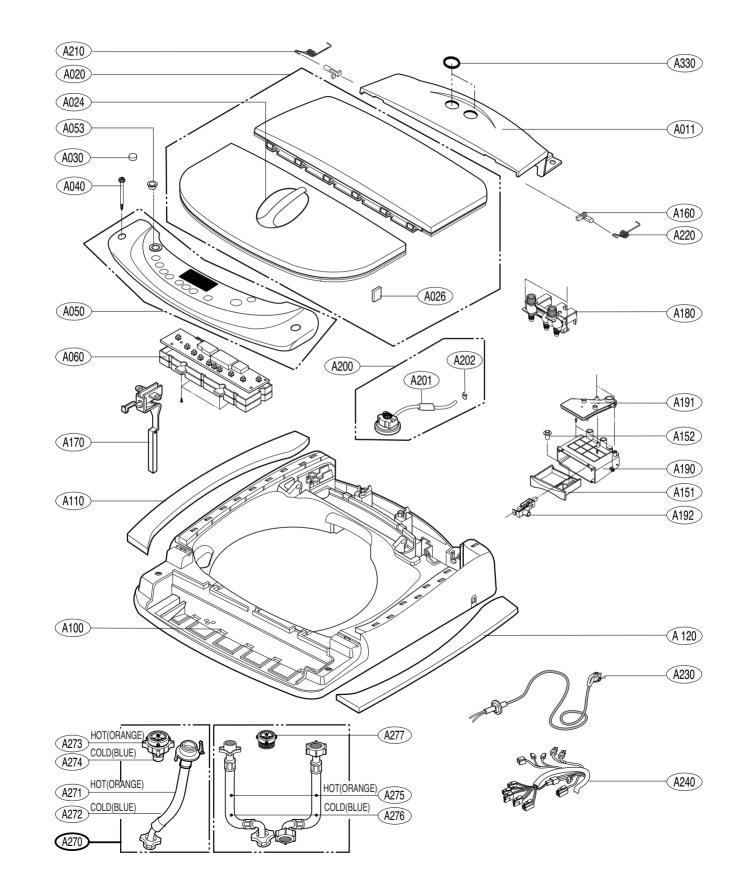
13) Vibration, Noise or Unbalance Error happens during spin.

Not leveled.	Defect of installation	Level the washer.
Laundry is unbalanced.		Explain that it is not out of order and it may happen when big & long laundry is washed.
The pulsator rotates initially then the inner tub rotates.	Defect of the clutch	Change the clutch spring-B or the clutch asm.
The lever is bented	Defect of the safety switch	Change the safety switch. Don't repair and reuse it because it creates another problem if it is wrongly repaired.
Hit	Defect of the damper	Change four dampers simultaneously. (In assembling, check the position to damper asm)
	Laundry is unbalanced. The pulsator rotates initially then the inner tub rotates. The lever is bented	Laundry is unbalanced.Defect of the clutchThe pulsator rotates initially then the inner tub rotates.Defect of the clutchThe lever is bentedDefect of the safety switchHitDefect of the

14) Power is automatically turned off during operation or immediately turning on the power switch.

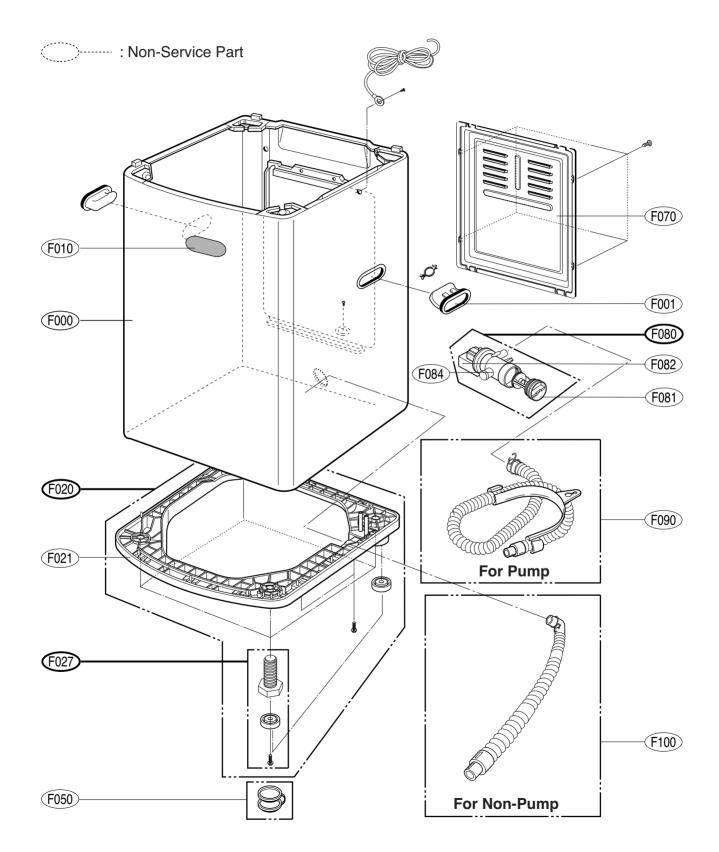
Where, what & how to check?	Result of Check	Possible Cause	How to repair & settle
Main voltage 1. It is mostly caused by noise from mains or transfomerient power cut.		Defect in main.	Explain the cause. (It happens specially when a high frequency equipment is a used around the washer or in the case voltage fluctuation is big)
Auto Off switch or Controller 1.Check whether power is	Automatically	Mechanical defect	Change the auto off
automatically turned off when turning on the auto off switch after unplugging the power cord from the outlet	turned off	of the auto off switch.	switch.
2. It would be defect of the controller if power is automatically turned off immediately when turning on the power switch even though there is no defects in the auto off switch.			Change the controller.

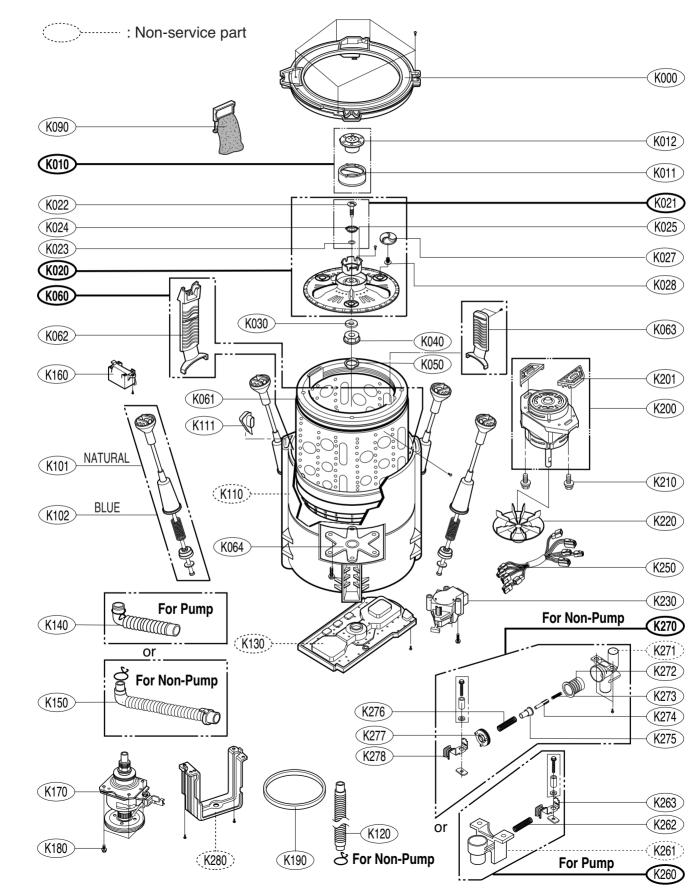




5-1. THE EXPLODED VIEW OF TOP COVER ASSEMBLY







5-3. THE EXPLODED VIEW OF TUB ASSEMBLY

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