SAMSUNG

WASHING MACHINE DRUM TYPE

Basic Model : WF45R6100AP/US (WF6000R) Model Name : WF45R6100AP WF45R6100AC WF45R6300AW WF45R6300AC WF22R6270AV WF22R6270AP (WF6000R) Model Code : WF45R6100AP/US WF45R6100AC/US WF45R6300AW/US WF45R6300AC/US WF22R6270AC/AX WF22R6270AP/AP

WF45R6100AW WF45R6300AP WF45R6300AV WF45T6000AW WF22R6270AC WF22R6270AW

WF45R6100AW/US WF45R6300AP/US WF45R6300AV/US WF45T6000AW/A5 WF22R6270AC/CO WF22R6270AP/AX WF22R6270AV/AX WF22R6270AW/AX WF22R6270APCXD WF20T6000AWCXD

(WF6000R) SERVICE Manual CUSTOMER REPAIR GUIDE

WASHING MACHINE (DRUM)



CONTENTS

1. Safety Instructions

WF22R6270AP/CO

WF22R6270AW/AP WF22R6270AW/AC

WF22R6270AWCXD

- 2. Features and Specification
- 3. Disassembly and Reassembly
- 4. Troubleshooting

CONTENTS

1.	Safety instructions
	1-1. Safety instructions for service engineers
2	Features and Specifications
۷.	2-1. Features
	2-2. Specifications
	2-3. Comparing specifications with existing models
	2-4. Options specifications
	2 4. Options specifications
z	Disassembly and Reassembly
5.	3-1. Tools for disassembly and reassembly 12
	3-2. Standard disassembly drawings 13
Δ	Troubleshooting
	4-1. Error modes
	4-2. Test Modes
	4-3. Corrective actions for each error code

1. SAFETY INSTRUCTIONS

1-1. SAFETY INSTRUCTIONS FOR SERVICE ENGINEERS

- Be sure to observe the following instructions to operate the product correctly and safely to prevent possible accidents and hazards while servicing.
- Two types of safety symbols, Warning and Caution, are used in the safety instructions.



Hazards or unsafe practices that may result in severe personal injury or death.



Hazards or unsafe practices that may result in minor personal injury or property damage.

WARNING BEFORE SERVICING

- (When servicing electrical parts or harnesses) Make sure to disconnect the power plug before servicing.
 ✓ Failing to do so may result in a risk of electric shock.
- Do not allow consumers to connect several appliances to a single power outlet at the same time.
 ✓ There is a risk of fire due to overheating.
- When removing the power cord, make sure to hold the power plug when pulling the plug from the outlet.
 - ✓ Failing to do so may damage the plug and result in fire or electric shock.



- When the washing machine is not being used, make sure to disconnect the power plug from the power outlet.
 - ✓ Failing to do so may result in electric shock or fire due to lightning.



Do not place or use gasoline, thinners, alcohol, or other flammable or explosive substances near the washing machine.
 ✓ There is a risk of explosion and fire caused from electric sparks.



- If you need to place the washing machine on its back for servicing purposes, place a support(s) on the floor and lay it down
 carefully so its side is on the floor.
 - ✓ Do not lay it down on its front. This may result in the inside tub parts damaging.

🗥 WARNING 🚽 WHILE SERVICING

- Check if the power plug and outlet are damaged, flattened, cut or otherwise degraded.
 - ✓ If faulty, replace it immediately. Failing to do so may result in electric shock or fire.
- Completely remove any dust or foreign material from the housing, wiring and connection parts.
 - ✓ This will prevent a risk of fire due to tracking and electrical hazard.
- When connecting wires, make sure to connect them using the relevant connectors and check that they are completely properly.
 ✓ If tape is used instead of the connectors, it may cause fire due to tracking.
- Make sure to discharge the PBA power terminals before starting the service.
 ✓ Failing to do so may result in a high voltage electric shock.
- When replacing the heater, make sure to fasten the nut after ensuring that it is inserted into the bracket-heater.
 ✓ If not inserted into the bracket-heater, it touches the drum and causes noise and electric leakage.

WARNING AFTER SERVICING

- Check the wiring.
 - ✓ Ensure that no wire touches a rotating part or a sharpened part of the electrical harness.
- Check for any water leakage.
 - ✓ Perform a test run for the washing machine course and check whether there is any water leakage through the floor section or the pipes.
- Do not allow consumers to repair or service any part of the washing machine themselves.
 ✓ This may result in personal injury and shorten the product lifetime.
- If it seems that grounding is needed due to water or moisture, make sure to run grounding wires. (Check the grounding of the power outlet, and additionally ground it to a metallic water pipe.)

 \checkmark Failing to do so may result in electric shock due to electric leakage.

[Running a grounding wire]

- Twist a grounding wire (copper wire) two or three times around the tap.
- If you connect the grounding wire to a copperplate, bury it 75 cm under the earth in a place with a lot of moisture.
 - \triangle Do not connect the grounding wire to a gas pipe, plastic water pipe or telephone wire. There is a risk of electric shock or explosion.





AFTER SERVICING

- Check the assembled status of the parts.
 - ✓ Now is a good time to inspect your work. Review all connections and wiring, including mounting hardware.
- Check the insulation resistance.
 - \checkmark Disconnect the power cord from the power outlet and measure the insulation resistance between the power plug and the grounding wire of the washing machine. The value must be greater than 10MΩ when measured with a 500V DC Megger.
- Check whether the washing machine is level the floor with respect to the original position of the washing machine prior to service.
 By doing this now will reduce for the need of customer dissatisfaction and redo call.
 - \checkmark Vibrations can shorten the lifetime of the product.



Vibrations can shorten the thetime of the produc

2. FEATURES AND SPECIFICATIONS

2-1. FEATURES

Features	Description
Smart Control	• Samsung's innovative Smart Control technology enables you to control your washer through personal technologies such as smart phones. You don't have to be on standby until the cycle ends. Smart Control allows you to monitor the washing process and let you know when the cycle is complete.
Smart Care	• Samsung's Smart Care, an automatic error-monitoring system, detects and diagnoses problems at an early stage and provides a quick and easy solution through LCD navigation. With the innovative Smart Control technology, you can also be alerted when the problem occurs via your smart phones.
Self Clean+ (Tub Cleaning cycle)	• Clean your drum with one button! This Pure Cycle is specially designed to remove detergent residue and dirt buildup in the tub, diaphragm, and on the door glass without the need for special chemical detergents.
SuperSpeed	• Cut your laundry time in half and clean efficiently. Simply select Super Speed to wash a full load in 30 minutes. A powerful water spray helps detergent penetrate fabrics faster and speeds up rinsing. A larger-diameter drum cleans with more force and a Swirl+ pattern extracts water effectively.
Bixby	• Use your washing machine more optimally and easily with the Bixby artificial intelligence (AI) system. 'Laundry Recipe' recommends wash cycles, 'Laundry Planner' optimizes your daily schedule, 'HomeCare Wizard' enables remote troubleshooting, and 'Auto Cycle Link' ensures optimal drying.
DD Motor	• The power to handle anything! Our direct-drive inverter motor delivers power right to the washer tub from a variable speed, reversible motor. A beltless direct-drive motor generates a higher spin speed of 1,300 rpm for more effective, quiet operation. The washer also has fewer moving parts, meaning fewer repairs.
Pedestal with Storage Drawers (Model No : WE357*)	• An optional 15" pedestal is available to raise the washer for easier loading and unloading. It also offers a built-in storage drawer that can hold a 100 oz. bottle of detergent.
Stacking (Model No : SKK-7A)	Samsung washers and dryers can be stacked to maximize usable space. An optional stacking kit is available for purchase from your Samsung retailer.

2-2. SPECIFICATIONS



6 _ Features and Specifications

2-3. COMPARING SPECIFICATIONS WITH EXISTING MODELS

Project			WF6300R	WF6		WF6000T
Мо	del Code		WF45R6300AV WF45R6300AP WF45R6300AW WF45R6300AC	WF45R6100AP WF45R6100AC WF45R6100AW	WF22R6270AV WF22R6270AC WF22R6270AP WF22R6270AW	WF45T6000AW/A5
Washer	In	nage				
	Availa	ble Colors	Black STSS / Platinum / White	Platinum / Champagne / White	Black STSS / Platinum / White	White
		pacity	4.5	4.5	4.5	4.5
		t / DOE)	4.5			4.5
		rFoam™	-	-	-	-
		Wash™	- 0	-	-	-
		al Heater	Y	Y Y	Y Y	-
		team erSpeed	Y	ř –	Y Y	-
		t Control	Y (Embedded)		Y (Embedded)	
		art Care	γ	γ	Y	Y
		ior Drum	Swirl+	Swirl+	Swirl+	Swirl+
		Clean +	Ŷ	Y	Ŷ	Y
Key	Washi	ng Cycles	12	10	12	10
Features	VRT	PLUS™	Y	Y	Y	Y
		Max Spin beed)	1,200	1,200	1,200	1150
	Interior Drum Light		-	-	0~	-
	Motor Drum tilt Cycle Time (Normal 8lb)		DD	DD	DD	DD
			5 degree	5 degree	5 degree	5 degree
			45min	45min	45min	45min
	Cyc	le Time erSpeed)	30min	-	30min	-
	Water Inlet Hose Included		_			_
		or Type	New Crystal Blue	Tint	New Crystal Blue	White
		r Safety	Y	Υ	Y	-
Design		me Deco	-		-	-
Design	: Panel Time Display		18:88 LED	18:88 LED	18:88 LED	18:88 LED
		D color	Ice Blue	Ice Blue	Ice Blue	Ice Blue
	Door Handle		Inner	Visor	Inner	Visor
Electrical	Vol	tage / quency	120V / 60Hz	120V / 60Hz	120V / 60Hz	120V/60Hz
Requirement		npere	15 Amps	15 Amps	15 Amps	15 Amps
	Net	Width	686	686	686	686
	(mm)	Depth	767	767	767	767
	Gross (mm)	Height	984	984	984	984
		Width	746	746	746	746
		Depth	866	866	866	866
Dimension		Height Width	1076 27	1076 27	1076 27	1076 27
	Net	Depth	30.2	30.2	30.2	30.2
	(inch)	Height	38.7	38.7	38.7	38.7
		Width	29.4	29.4	29.4	29.4
	Gross	Depth	34.1	34.1	34.1	34.1
	(inch)	Height	42.4	42.4	42.4	42.4

	Project	WF6000R	WF6000R	
	Model Code	WF22R6270APCXD (TBD) WF22R6270AWCXD (TBD)	WF20T6000AWCXD (TBD)	
Washer	Image			
-	Available Colors	Platinum / White	White	
	Capacity (cu.ft / Net)	4.5	4.5	
-	Capacity (kg / Sales)	22	20	
ŀ	PowerFoam [™]		_	
	AddWash™		-	
	Internal Heater	Y	-	
	Steam	Y	-	
[SuperSpeed	Y	-	
	Smart Control	Y (Embedded)	-	
	Smart Check	Y	Y	
	Interior Drum	Swirl+	Swirl +	
Key	Self Clean +	Y	Y	
Features	Washing Cycles	12	10	
-	VRT PLUS™	Y	Y	
-	RPM (Max Spin Speed)	1,200	1,200	
-	Interior Drum Light	-	-	
-	Motor Drum tilt	DD	DD	
-		5 degree	5 degree	
-	Cycle Time (Normal 8lb) Cycle Time (SuperSpeed)	45min 30min	45min	
-	Water Inlet Hose Included	γ		
-	Auto Dispenser	-		
-	Turbodity sensor (Al Wash)		-	
-	Hygiene Care	-	_	
	Door Type	Tint	White	
F	Door Safety	Y	-	
-	Chrome Deco : Panel		_	
Desian	Time Display	18:88 LED	18:88 LED	
Design	LED color	Ice Blue	Ice Blue	
	Door Handle	Inner	Visor	
	Simple UX (IMD)	Θ^{X}	-	
	Simple UX (Multi-Control)	<u> </u>	-	
	Number of Cycles	12	10	
_	Normal	Y	Y	
-	Heavy Duty	Y	Ŷ	
	Bedding	Y	Ŷ	
-	Quick Wash	Y	Ŷ	
-	Perm Press	Y	<u> </u>	
-	Delicates Whites	Y Y	<u>ү</u> Ү	
-	Sanitize	Y	Y	
Cycles	Allergen		-	
Cycles	Deep Steam		-	
-	Activewear	Ŷ	Ŷ	
	Wool		-	
	Towels	-	-	
	eco Cold		_	
	Stain Away		-	
	Rinse + Spin	Y	Y	
	Self Clean+	Y	Y	
	Downloaded	Y	_	

Project			WF6000R	WF6000R
			WF8000R WF22R6270APCXD (TBD)	
	Model Code	!	WF22R6270AWCXD (TBD)	WF20T6000AWCXD (TBD)
		er of Options	10	6
		e Wash		-
		e Soak	Y	γ
		ra Rinse tra Spin	-	-
		Steam	Y	
		(*Cycle Save)	-	_
		End (24 hrs)	Y	Y
		rt Control	Y	_
		f Clean+		-
		erSpeed	Y	-
		art Care		Y
		in Only Sound	0	
		from '19 models)	Y	Y
		im Light	-	-
	Dose	perWash		
		per Rinse		
	Ch	ild Lock		
Options		Smart Control	-	
		Child Lock (Dual Key)	Y	Y
	Long Key	Smart Care	Y	Y N
		Sound - ('Alarm	1	
		Off' from '19	Y	Y
		models)		
		Drum Light	-	04
		Spin Only	Y	
		Detergent Concentration		
	System	Level		
		Softener		,
		Concentration	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
		Level		
	Functions	Al Pattern		
		Alarm	<u> </u>	
		Calibration Wi-Fi		
		Language	×0	
		Factory Reset	0	
	Garment Plus		Y	Y
	Sel	f Clean+	Y	Y
	Child Lock		Y	Y
In direction		orLock	Y	Ŷ
Indicator		Sound rt Control	Y Y	Y
			t t	-
	Dru	ım Light	-	-
		Wi-Fi	Y	-
		r of Settings	5	5
	Ex	tra Hot	Level 5 (Hot)	-
	C-	Hot	Level 4	Level 5 (Hot)
Temp.		emi Hot Warm	- Level 3	Level 4 Level 3
iemp.		o Warm		Level 5
		Cool	Level 2	Level 2
		d (o Cold)	Level 1 (Cold)	Level1 (Cold)
		ap Cold	-	-

Model CodeWF22R6270A/CX0 (TBD) WF22R6270A/CX0 (TBD) WF22R6270A/CX0 (TBD) WF22R6270A/CX0 (TBD) WF22R6270A/CX0 (TBD) WF22R6270A/CX0 (TBD) WF22R6270A/CX0 (TBD) Level 55 Times) Level 55 Times) Level 55 Times) Level 55 Times) Level 55 Times) Level 3 Level 40 Level 41 (Time) Level 11 (Time) Level 11 (Time) Level 41 (Time) Level 41 (Lime) Level 41 (Lime) Level 41 (Level 41 Level 3 Level 3 Level 3 Level 3 Level 3 Level 3 Level 3 Level 3 Level 3 Level 41 (Level 42) Level 3 Level 3 Level 41 (Level 42) Level 3 Level 41 (Level 42) Level 41 (Level 43) Level 41 (Level 41 (Level 41)) Level 41 (Level 41) Level 41 (Lipht) Level 41		Project		WF6000R	WF6000R
Number of Settings5S timesLevel 5(5 Times)Level 5(5 Times)4 timesLevel 4Level 43 timesLevel 3Level 32 timesLevel 3Level 31 timeLevel 1(Time)Level 1Number of Settings55Extra HighLevel 5(High)Level 5(High)HighLevel 3Level 3LowLevel 3Level 3LowLevel 4Level 3LowLevel 2Level 3LowLevel 1(No Spin)Level 1(No Spin)Number of Settings55Soll Level55HeavyLevel 5(Heavy)Level 1(No Spin)Number of Settings55Soll Level1Level 4Number of Settings55Soll Level1Level 3YLevel 1(No Spin)Level 1(No Spin)Number of Tays33PrewashItaySolfenerYYLevel 1(Light)Level 1(Light)Number of Tays33PrewashAuto DetergentAuto DetergentAuto DetergentPuerey120V/50-60Hz (Dual)120V/50-60Hz (Dual)DispensionMeth686686BelachYYAuto DetergentAuto DetergentAuto Detergent <th></th> <th>Model Code</th> <th></th> <th></th> <th>WF20T6000AWCXD (TBD)</th>		Model Code			WF20T6000AWCXD (TBD)
Stimes Level 5 (5 Times) Level 5 (5 Times) 4 times Level 4 Level 3 2 times Level 3 Level 3 2 times Level 2 Level 3 Number of Settings 5 5 Burber of Settings 5 5 Extra High Level 3 Level 3 High Level 4 Level 3 Medium Level 4 Level 3 Low Level 1 Level 3 Extra Low 0 0 No Drain 0 0 No Drain 0 0 No Drain 0 0 Normal Level 4 Level 4 Level 5 (Heavy) Level 5 (Heavy) Level 5 (Heavy) Soil Level Normal Level 4 Level 4 Normal Level 4 Level 4 Level 4 Light Level 1 (Light) Level 1 (Light) Level 1 (Light) Softener Y Y Y Y Prevash		Numbe	r of Settings	5	
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Spin Stimes Level 3 Level 4 1 time Level 5 5 5 Extra High Level 5 (High) Level 4 Level 3 Wedium Level 3 Level 3 Level 3 Low Level 3 Level 3 Level 3 Low Level 2 Level 3 Level 3 No Spin Level 1 (No Spin) Level 4 Level 3 Number of Settings 5 5 5 Number of Settings 5 5 5 Number of Settings 5 5 5 Soil Level Meavel 3 Level 4 Level 4 No Spin Level 4 Level 4 Level 2 Vervel 4 Level 5 (Heavy) Level 2 Level 4 Number of Settings 5 5 5 Soil Level Number of Trays 3 3 3 Prewash - - - - Dispenser Softener Y Y Y	Dimen	4	times	Level 4	Level 4
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No Spin Level 1 (No Spin) Level 1 (No Spin) No Drain 0 No Drain 0 Number of Settings 5 Heavy Level 5 (Heavy) Level 5 (Heavy) Level 5 (Heavy) Normal Level 4 Normal Level 3 V Level 2 Level 2 Level 2 Light Level 1 (Light) Number of Trays 3 Prewash - Main Y Y Y Bleach Y Y Y Auto Detergent - Auto Softener - Auto Softener - Y Y Sold Level 120V / 50~60Hz (Dual) 120V / 50~60Hz (Dual) 120V / 50~60Hz (Dual) Prewash - - Main Y Y Softener - - Muto Softener - - Depth 796 796	Spin		Low	Level 2	Level 2
$\begin{tabular}{ c c c } \hline \begin{tabular}{ c c c } \hline \begin{tabular}{ c c c c } \hline \begin{tabular}{ c c c c } \hline \begin{tabular}{ c c c c c c c } \hline \begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	-	Ext	ra Low		0
$\begin{tabular}{ c c c } \hline \begin{tabular}{ c c c } \hline \begin{tabular}{ c c c c } \hline \begin{tabular}{ c c c c } \hline \begin{tabular}{ c c c c c c c c } \hline \begin{tabular}{ c c c c c c c c c c c c c c c c c c c$		N	o Spin	Level 1 (No Spin)	Level 1 (No Spin)
Soil LevelNumber of Settings5Soil LevelHeavyLevel 5 (Heavy)Level 5 (Heavy) \blacksquare Level 4Level 4NormalLevel 3Y \blacksquare Level 2Level 2LightLevel 1 (Light)Level 1 (Light)Number of Trays33Prewash \square YYBleachYYAuto DetergentYYAuto DetergentAuto DetergentNumber of Trays120V / 50~60Hz (Dual)120V / 50~60Hz (Dual)DimensionNet (mm)Depth796Gross Width866866Height1076746					
Soil LevelHeavyLevel 5 (Heavy)Level 5 (Heavy)Soil Level \land Level 4Level 4NormalLevel 3YImage: Solar Sola				5	
Soil Level \checkmark Level 4Level 4NormalLevel 3Y \checkmark Level 2Level 2LightLevel 1(Light)Level 1(Light)Number of Trays33PrewashDetergentMainYDispenserSoftenerYTrayBleachYBleachYYAuto DetergentAuto SoftenerElectricalVoltage / Frequency120V / 50~60Hz (Dual)120V / 50~60Hz (Dual)RequirementAmpere15 Amps686Met (mm)Depth796796Height984984984Depth866866Beight10761076					-
Solt LevelNormalLevel 3YDetergentI. LightLevel 2Level 2Level 2I. LightLevel 1 (Light)Level 1 (Light)DetergentNumber of Trays3PrewashMainYYMainYYSoftenerYYBleachYYAuto DetergentAuto SoftenerElectricalVoltage / Frequency120V / 50~60Hz (Dual)120V / 50~60Hz (Dual)RequirementAmpere15 Amps15 AmpsMet (mm)Depth796796Height984984984Opeth866866Height10761076	C 11.				
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$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$					-
$\begin{array}{c c c c c c c c c c } \hline Number of Trays & 3 & 3 \\ \hline Number of Trays & 3 & 3 \\ \hline Prewash & - & - & - \\ \hline Main & Y & Y \\ \hline Main & Y & Y \\ \hline Softener & Y & Y \\ \hline Bleach & Y & Y \\ \hline Auto Detergent & - & - \\ \hline Auto Softener & - & - \\ \hline Auto Softener & - & - \\ \hline Auto Softener & - & - \\ \hline Electrical & Voltage / Frequency & 120V / 50~60Hz (Dual) & 120V / 50~60Hz (Dual) \\ \hline Requirement & Ampere & 15 Amps & 15 Amps \\ \hline Net (mm) & Width & 686 & 686 \\ \hline Depth & 796 & 796 \\ \hline Height & 984 & 984 \\ \hline Gross (mm) & Width & 746 & 746 \\ \hline Depth & 866 & 866 \\ \hline Height & 1076 & 1076 \\ \hline \end{array}$	-		iaht		
$\begin{array}{c c c c c c c } \hline Prewash & - & - & - & - & - & - & - & - & - & $					
$\begin{array}{c c c c c c c c c } \hline Detergent \\ Dispenser \\ Tray \\ \hline \\ Tray \\ \hline \\ Tray \\ \hline \\ Fray \\ \hline \\ Part \\ Tray \\ \hline \\ Part \\ Part \\ Tray \\ \hline \\ Part \\ Part \\ Part \\ \hline \\ Part \\ Part \\ Tray \\ \hline \\ Part \\ Part \\ Part \\ \hline \\ Part \\ Part \\ Tray \\ \hline \\ Part \\ $	-				
$\begin{array}{c c c c c c c c } \hline Dispenser & Softener & Y & Y \\ \hline Tray & Bleach & Y & Y \\ \hline Auto Detergent & - & - \\ \hline Auto Softener & - & - \\ \hline Auto Softener & - & - \\ \hline Auto Softener & - & - \\ \hline Electrical & Voltage / Frequency & 120V / 50~60Hz (Dual) & 120V / 50~60Hz (Dual) \\ \hline Requirement & Ampere & 15 Amps & 15 Amps \\ \hline Met & 686 & 686 \\ \hline Depth & 796 & 796 \\ \hline Height & 984 & 984 \\ \hline Midth & 746 & 746 \\ \hline Depth & 866 & 866 \\ \hline Height & 1076 & 1076 \\ \hline \end{array}$	Detergent			γ	Y
$\begin{tabular}{ c c c c c } \hline Tray & Bleach & Y & Y \\ \hline Auto Detergent & - & - \\ \hline Auto Softener & - & - \\ \hline Auto Softener & - & - \\ \hline Electrical & Voltage / Frequency & 120V / 50~60Hz (Dual) & 120V / 50~60Hz (Dual) \\ \hline Requirement & Ampere & 15 Amps & 15 Amps \\ \hline Met & 0 & 0 & 0 & 0 \\ \hline Mmmodel{mmmodel} & Met & 686 & 6$					
$\begin{tabular}{ c c c c c c } \hline Auto Detergent & - & - & - & - & - & - & - & - & - & $		Tray Bleach			
$\begin{tabular}{ c c c c c } \hline Auto Softener & - & - & - & - \\ \hline Electrical & Voltage / Frequency & 120V / 50~60Hz (Dual) & 120V / 50~60Hz (Dual) \\ \hline Requirement & Ampere & 15 Amps & 15 Amps \\ \hline Requirement & & & & & & & & & & & & & & & & & & &$	indy				
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Requirement Ampere 15 Amps 15 Amps Net (mm) Width 686 686 Depth 796 796 Height 984 984 Gross (mm) Width 746 Height 1076 1076	Electrical			120V / 50~60Hz (Dual)	120V / 50~60Hz (Dual)
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	Loading	AOft High	sots	78	

2-4. OPTIONS SPECIFICATIONS

	Item	Code	QTY	Remarks
	MANUAL USER	USER : DC68-03665A TECH : DC68-03672A	1	Default
000	CAP-FIXER	DC67-00307A	6	Default
	HOSE-HANGER	DC62-10278A	1	Default

🖉 Note

- Customer can purchase additional water supply and drain hoses from a service center.
- The spanner(wrench), water supply and drain hoses are not supplied. Both the water supply and drain hoses are supplied during the installation.

3. DISASSEMBLY AND REASSEMBLY

3-1. TOOLS FOR DISASSEMBLY AND REASSEMBLY

Tool			Remarks
	Socket Wrench with 6" Extension	Type 10mm 13mm 19mm	Heater (1) Motor (1), Balance (5), 2 holes of each left and right of the shock absorber1 Pulley hole
And	Open End wrench	10mm 13mm 19mm	Replaceable for the box driver. Since the bolt runs idle when the box driver is used, use the box driver17mm.
	Vice plier:	S	Tool to protect the idle and abrasion of the bolt for the box driver.
	Others (Driver, Nipper nose)	-	General tools for the after service.

3-2. STANDARD DISASSEMBLY DRAWINGS

 Remove the 4 screws holding the Back-Cover at the back of the washing machine and separate the Back-Cover pushing it downwards. (Assemble it by lifting it upwards) After separating the Back-Cover, remove the M19 nut holding the Motor. To remove it, turn it counter-clockwise. As the Motor also rotates if the nut is turned slowly, torque it quickly and firmly in a single action. Do not remove the nut by inserting a screwdriver into the Motor, as this may result in a problem with the motor. Remove the M19 nut and washer and then separate the Rotor.
 holding the Motor. To remove it, turn it counter-clockwise. As the Motor also rotates if the nut is turned slowly, torque it quickly and firmly in a single action. Do not remove the nut by inserting a screwdriver into the Motor, as this may result in a problem with the motor. 3. Remove the M19 nut and washer and then separate the
Since removing the rotor requires a lot of strength due to the magnetic force of the Rotor and it may come off suddenly, your hand or arm may be injured by the edge of the Stator or Frame. Therefore take precaution when separating it. You can separate the connector by pressing.
 Separate the Motor Wire while pressing the navel of the Housing.
 5. Separate the 6(or 3)xM10 screws. → Separate the Assy Bracket Motor → Separate the Stator. When removing the last of the 6 screws, hold the Stator as it may fall when the screws are removed.

Part	Figure	Description
	<image/>	 Separate the Assy Thermistor and Guide Wire-T while pulling the Assy Thermistor. Separate the Assy Thermistor and Assy Wire Harness while pressing the navel of the Housing.
Disassembling and Repairing the Thermistor		3. Pull the Assy Thermistor from Tub Back. When disassembling Assy Thermistor, leave the rubber packing.
	CAUTION OK OK OK NG Gap	 When assembling Assy Thermistor, push to the end. If assembling like NG picture, water leakage possibility is high. When assembling and disassembling Assy Thermistor, rubber Packing should be checked. If the gap existed between rubber packing and tub- back, water leakage possibility is high.

Part	Figure	Description
		 Remove the 2 hexagon screws, which are at the back, fixing the COVER-TOP.
		2. Disassemble the COVER-TOP by sliding it backwards.
Separating the Cover- Top and Panel-Control		3. Press the Separate button to separate the ASSY DRAWER.
(Check Sub-PCB)		 Remove the 3 screws in Assy Housing Drawer, and disassemble Assy Housing Drawer by sliding it backwards.
		 After remove 4 screws in PANEL-CONTROL, Pull the PANEL-CONTROL towards and then lift it upwards to separate.
		6. Carefully disconnect the wire connectors by hand.

Part	Figure	Description
Separating the Cover- Top and Panel-Control Check Sub-PCB)		7. Disassemble the ASSY KNOB-ENKODER by pulling it upwards. Knob-PCB can be separate from PANEL-CONTROL.
		8. Disassemble the Cover Panel by hand Sub-PCB was assembled in Cover Panel.

Part	Figure	Description
		 Remove the 2 screws holding the ASSY PCB-MAIN at the back of the washing machine.
		2. Disassemble 4 Wires and hose from Cover PBA
Separating the Main PCB		3. Separate the 3 Hooks by pushing it rightwards.
		4. Separate the Hooks of Cover PBA.
		5. Disconnect All Connectors on main PBA.
ç	AMSUMG PROPRIETATION	

Part	Figure	Description
Disassembling Assy		 Remove the 2 hexagonal screw holding the hinge door.
Door		2. Disassemble Assy Door by life to upside.
	87.	STRIBUTE WITHOUT PERMIT

Part	Figure	Description
Disassembling the Frame Front (Check the Door Lock S/W)		 Remove the 2 hexagon screws, which are at the back, fixing the COVER-TOP.
		2. Disassemble the COVER-TOP by sliding it backwards.
		3. Press the Separate button to separate the ASSY DRAWER.
		 Remove the 3 screws in Assy Housing Drawer, and disassemble Assy Housing Drawer by sliding it backwards.
		 After remove 4 screws in PANEL-CONTROL, Pull the PANEL-CONTROL towards and then lift it upwards to separate.
		6. Open Cover Filter and disassemble Hose Drain from hook.

Part	Figure	Description
		7. Disassemble Wire Diaphragm from Diaphragm.
		8. Remove the 3 screw of Door Lock SW.
Disassembling the Frame Front (Check the Door Lock S/W)		9. Remove the 3 screw below of Frame Front.
		10. Remove the 4 screw upside of Frame Front.
		11. Press the UPPER-PLATE slightly with the screwdriver to separate the FRAME-FRONT.
	AMAGING BROOM	

Part	Figure	Description
		 Remove the Assy Cover Top. Disconnect the water supply valve wire connector.
Disassembling and Repairing the Water Supply Valve		3. Remove the 4 screws holding the water supply valve.
		 Remove the hose connected to the valves. (Use the plier to remove the hose.)
Disassembling and Repairing the Water		 Separate the wire connected the SENSOR-PRESSURE. Adjust the plastic clip(of pressure sensor) between two nose of plier, then grip and pull the plastic clip with caution. (Use the long nose plier to push the hook).
Level Sensor		3. Remove the hose from the SENSOR-PRESSURE.
Disassembling the inside Detergent Box		 Hold the Hose and Nozzle and disassemble from Diaphragm.

Part	Figure	Description
		1. Remove the 2 screws holding the ASSY PUMP DRAIN.
Disassembling the Pump Motor Part		 Separate the Clamp of the hose connected to the PUMP and then pull the DRAIN-HOSE. Separate the Clamp of the hose connected to the PUMP and then pull the HOSE-AIR. Separate the Clamp of the hose connected to the PUMP and then pull the HOSE-DRAIN.
		5. Separate the wire connected to the PUMP.
Removing the Remaining Water		 If the washing machine works, drain the water in the wash tub by selecting the Spin course. If the washing machine does not work, remove the laundry from the wash tub and scoop the remaining water out of the tub using a cup.
	AMELING PROPRIETARY, DOMOT	
22 Removal and Reass		

Part	Part Figure Description	
		1. Remove the 2 screws fixing GUIDE-WIRE, 6 screws fixing FRAME-PLATE(U).
		2. Remove the 6 bolts fixing WEIGHT BALANCER and then pull it towards with caution.
Disassembling the Tub		 Remove the 4 bolts fixing DAMPER to take ASSY TUB out. Remove all wire and hose connected the ASSY-TUB.
		5. Open the cap of SPRING-HANGER to take ASSY-TUB out.
		6. Lift the ASSY-TUB with two people carefully with holding SPRING-HANGER.

Part	Figure	Description
Disassembling the Tub		7. Remove the M10 bolt from the middle of the TUB and separate the TUB-FRONT and TUB-BACK.
Disassembling the		 Separate the ASSY DRUM from TUB, remove 6 M10 bolts from the upper ASSY DRUM, disassemble the ASSY FLANGE SHAFT.
Disassembling the DRUM		2. Remove 3 screws from the outer sides and then remove the 3 DRUM-LIFTERS.
	AMELING PROPRIETARY, DOMOS	

Part	Figure	Description
		 Disassemble the Front-Frame. Separate the connection wire. Separate the Thermostat fixed at the bottom of the Tub.
		 (Take precaution as there may be water remaining.) Make sure to separate the Thermostat first and then separate the Heater. If you fail to observe this order, it may result in a shock and be damaged.
		3. Release the nut holding the Heater with an M10 tool and then separate the Heater.
Separating the Heater at the Bottom Front		Do not completely release the nut. Pull the Heater forward after releasing the nut. If the Heater is damaged, it may cause a problem. Therefore unfasten the nut using spanner or wrench manually without using pincers or tweezers.
	N.DONOTCOP	▲ When you re-assembly the heater, make sure to install the Heater exactly onto the Bracket inside the Tub. If it is not properly installed, it may cause a fire. In addition, completely insert the packing part into the Tub when assembling it so that the packing part is completely attached onto the Tub.
	* Check Points for Troubleshooting	101
	1. Check if the resistance of the Heater i 2000W product).	is equal to 27.1 Ω (for the 1900W product), or 26.2 Ω (for the
		stor is equal to 12k Ω (at room temperature).
Reassembly is in the re	verse order of the removal.	

4. TROUBLESHOOTING

4-1. ERROR MODES

▶ This is a washer integrated error mode. For detailed information, refer to the general repair scripts.

Error Type	ForUSA	Causes	Remarks
Water Level Sensor	1C	 The part of the hose where the water level sensor is located is damaged (punctured). The hose is clogged with foreign material. The hose is folded. Too much lubricant has been applied to the insertion part of the air hose. Hose engagement error. (disengaged) Part fault. (Faulty internal soldering) The water level sensor terminal is disengaged. Main PBA fault. 	
Motor Driving Error and Hall Sensor Error	3C	 The PBA connector terminal is not connected. The motor spin net is not engaged. The motor's internal coil is damaged. (short-circuited or cut) The hall sensor terminal is not connected. Foreign material (a screw) has entered the motor. Motor overloaded due to too much laundry. (Non-sensing) The motor hall sensor terminal is not connected. PBA fault. The motor driving error from the PBA is weak. Unstable relay operation, etc. This occurs due to erroneous operating signals from the motor hall sensor. The IPM terminal of the main PBA is not connected. PBA fault. The PCB housing terminal is not connected. PBA fault. 	This error occurs because of restrained revolutions. This error occurs when an interference is generated due to too much laundry, etc.
Water Supply Error	4C	 Foreign material is entering the water supply valve. The water supply valve terminal is not connected. (Wire disconnected) The warm water and rinse connectors are wrongly connected to each other. This occurs if the PCB terminal from the drain hose to the detergent drawer is not connected. Check whether the transparent hose is folded or torn. 	
	4C2	 The cold and warm water supply hoses are wrongly engaged into each other. The water temperature is sensed as higher than 50 °C in the Wool or Lingerie courses. 	
Drain Error	5C	 The pump motor impeller is damaged internally. The wrong voltage is supplied to the parts. Part fault. This occurs due to freezing in the winter season. The drain hose is clogged. (Injection error, foreign material) Clogged with foreign material. The water pump terminal is not connected: rubber band, bills, cotton, hair pins, coins have collected inside the drain pump ASSY. 	
Power Error	9C1,9C2	 Check the consumer's power conditions. Make sure to check the operating voltage. Connect a tester to the internal power terminals during the Boil operations and observe the washing machine's operation carefully. Check the voltages. (An error occurs when under or over voltage is supplied.) Check whether a plug receptacle is used. When the connecting wire is 1m, a momentary low voltage may drop up to 10 V Main PBA fault (sometimes) 	

Error Type	For USA	Causes	Remarks
Communication Error	AC	 The signals between the sub and main PBAs are not sensed because of commuication error. Check the connector connections between the sub and main PBAs carefully. → Check for incorrect or loose connections, etc. Remove the sub PBA C/Panel and check for any faulty soldering. 	
	AC3	 The signals between The DR Module and main PBAs are not sensed because of commuication error. Check The connector connections between The DR Module and main PBAs carefully. → Check for incorrect or loose connections, etc. Remove The DR Module and Check for any faulty soldering. 	
	AC4	 The signals between The WIFI Module and main PBAs are not sensed because of commuication error. Check The connector connections between The WIFI Module and main PBAs carefully. → Check for incorrect or loose connections, etc. Remove the WIFI Module and Check for any faulty soldering. 	
	AC5	 The signals between The LCD Module and main PBAs are not sensed because of commuication error. Check The connector connections between The LCD Module and main PBAs carefully. → Check for incorrect or loose connections, etc. Remove The LCD Module and Check for any faulty soldering. 	
	AC6	 The signals between the Inverter PBA and main PBA are not sensed because of communication error. Check The connector connections between the Inverter PBA and main PBA carefully. → Check for incorrect or loose connections, etc. Remove the Inverter PBA and Check for any faulty soldering. 	UTPERMISS.
Switch Error (Main Relay Error)	BC2	 A switch is jammed or stuck due to be pressed unevenly due to deformation of the control panel or button. This error may occur when the screws that hold the sub PBA in place are tightened too much. A button other than the Power button is continually pressed. (for more than 30 seconds). Deformation of an internal plastic injection part. A screw for assembling the sub PBA is tightened too much. 	
	DC	 A switch contact error because of a deformation of the door hook. When the door is pulled by force. 	When the door is not opened after the door open operation.
Door Error		 This occurs in the Boil wash because the door is pushed due to a pressure difference from internal temperature changes. 	When the door is not locked after the door close operation.
	DC1	 The door lock switch terminal is connected incorrectly. The door lock switch terminal is broken. This occurs intermittently because of an electric wire leakage Main PCB fault. 	
Heater Error	НС,НС1	 The washing heater is short-circuited or has a wire disconnected. The washing heater in the tub has an error. (Contact error, temperature sensor fault) If the water level sensor operates without water because water is frozen or for any other reason and the temperature sensor engaged at the bottom to prevent overheating for the washing heater detects a temperature of 100 to 150 °C, the washing machine turns the input power off. 	If the heater has no error, this occurs because of a PBA relay malfunction.

Error Type	ForUSA	Causes	Remarks
Water Leakage Error	LC	 Heater engagement fault. (out of place) The air hose is out of place and water leakage occurs during the spin cycle. The tub back at the safety bolts fixing part is broken. Water leakage occurs at the front with foaming because of too much detergent. Water leakage occurs because the connecting hose to the detergent drawer is connected incorrectly. The drain pump filter cover is engaged incorrectly. Water leakage occurs at the drain hose. The duct condensing holding screws are worn. The nozzle-diaphragm is engaged in the opposite direction or the rubber packaging is omitted. Water leakage occurs because the screws that hold the tub back and front in place are fastened incorrectly. The leakage sensor is faulty. 	
Overflow Error	OC	 Water is supplied continually because the water level detection does not work. Because the drain hose is clogged and there is an injection error (at a narrow section), the water level detection does not work and water is supplied continually. Water is supplied continually because of freezing or because there is foreign material in the water supply valve. This error may occur when the water level sensor is degraded. 	This error occurs because the water level sensor terminal is out of place.
Temperature Sensor Error	ROPALE TCI	 The washing heater sensor in the tub has an error. (Contact error or temperature sensor fault) The connector is connected incorrectly or is disconnected. If the water level sensor operates without water because the water is frozen or for any other reason and the temperature sensor engaged at the bottom to prevent overheating for the washing heater detects a temperature of 100 to 150 °C, the washing machine turns the input power off. 	Heater sensor fault : When the connector is connected incorrectly or has a wire disconnected or contact error
Unbalance Error	UB	 As laundry causes this error, check the laundry. Find the reason for the unbalance and solve it as directed in the user manual. 	
Foaming Detected	SUD	 This occurs when too much foaming is detected. It is also displayed while foaming is removed. When the removal is finished, the normal cycle proceeds. "Sud" or "SUdS" is displayed when too much foaming is detected and "End" is displayed when the removal of the foaming is finished. (This is one of the normal operations. It is an error for preventing non-sensing faults.) 	
	8C1	- Error detected in the Mems PBA or data error detected. Check the wire connections.	
Mems PBA Error Detected	8C2	Replace if necessary.	
Detected	80	1. Check the wire connections. 2. Replace the Mems PBA.	
System Error	SF	- Micro Controller Operation Fail.	Replace Assy PCB.
Vibration noise during small amount of cloth Small load example : 1 bath towel, 1 jeans, (* WF45R6100/6300_ MODEL ONLY)	etc.	 Unbalanced due to small load. → Increase washing time and excessive vibration / noise in maximum rpm section. 	Replace PBA with spin algorithm updated. (* WF45R6100/6300_01 VER_ US MODEL ONLY)

4-2. TEST MODES

No	Mode	How to enter		
1	Smart Install	Standby Set the scheduled time to 17:00 Fress Start/Pause for 7 seconds Smart Install		
2	Automatic check mode	Smart Install Press Start/pause While displaying "AS".		
3	Manual check mode	Enter Smart Install Press Delay End While displaying "AS" delay end, Check devices in turn when pressing delay end.		
4	S/W version Check	Enter Smart Install Press the first button on the left at the bottom While displaying "AS".		
5	Diagnostic Code Check	Press the first button on the right at the bottom while displaying "AS", "Cr". Tum jog dial along the direction for CW when displaying. Enter Smart Install For models that do not feature the jog dial, press the 3rd button from the bottom left to display the information codes one by one by one with the latest first.		

Automatic Mode of Smart Install

Automatically start all operation modes of Smart Install.

Manual Mode of Smart Install

- Under the condition of manual mode, every time when "Delay End" is pressed, next step will be entered.
- Contents like washings, etc. are not allowed in the drum.

Operation mode	Description	Operation mode	Description	
1	carry out test for machine door locking	7	carry out test for operation of drainage pump	
2	carry out test for drainage pump operation	8	carry out test for operation of dehydration	
3	carry out test for operation of preparatory valve	9	carry out test for operation of drying heater and dry- ing fan	
Со	carry out test for operation of cold water valve	10	carry out test for operation of machine door	
Но	carry out test for operation of hot water valve		12	
	carry out test for operation of water shot valve	OK(Ot)	Automatic mode of Smart Install is completed normally	
6	carry out test for operation of washing heater			
	carry out test for operation of rinsing	2		

* Accessories not included in the product are not require to check and they can be skipped directly.

Identity of Smart Install completion

- After Smart Install is completed normally, "OK(Ot) identity will display.
- If Smart Install is completed abnormally or Smart Install fails to work, "nG_ identity will display.

Result Enquiry of Automatic Mode of Smart Install

- Under the condition of appearance of "AS_ identity, press "Delay End + Start/Pause" button.
- If automatic mode result is in normal condition, ^rOK(Ot) identity will display.
- If automatic checking mode fails to complete normally or fails to execute, <code>"nG_</code> identity will appear.

Diagnosis Information Display Mode

- Under the condition of appearance of **CR** identity, if the first button on the right at the bottom is pressed, **CR** identity will appear and diagnosis information display mode is entered.
- Under the condition of appearance of CR₁ identity, of turn the jog dial control switch clockwise, diagnosis codes generated before will display 7 digits at most.

4-3. CORRECTIVE ACTIONS FOR EACH ERROR CODE

These are common troubleshooting procedures for each drum-type washer error mode. For detailed information, refer to the general repair scripts.

Error Type	Error Mode	Causes	Corrective Actions	Description of Photo	
Water Level Sensor	1C	 Water level sensor fault Incorrect connections of the water level sensor terminal The hose part for the water level sensor is folded. Main PCB fault 	Check the water level sensor terminal connections and contacts. An error occurs if an incorrect water level sensor is used. Make sure to check the material code. (Abnormal operation) If the water level sensor is faulty, replace it. If the error persists despite taking the action above, replace the PBA.	 Check the water level sensor frequency. Check it after the water level sensor and the connector are connected. ☑ Checking Part : Pink Color Wire Orange Color Wire. Frequency : Approx. 25.5 KHz with no load 	
Washing Motor Error and Hall Sensor Error	3C	 Washing motor fault Washing motor hall sensor fault Incorrect connections of the washing motor/ hall sensor connector Washing motor rotor and stator fault Main PCB fault 	Check the motor connector terminal connections and contacts. 3E is displayed because overloading occurs due to too much laundry. If the hall sensor terminal is faulty, replace the hall sensor. Check whether the stator of the motor cover is damaged. Check for coil disconnections due to foreign material. If the PBA control circuit is faulty, replace the PBA.	 Check the motor Winding Coil Plug out the connector and read resistances at any two of the three terminals on Motor : Should be 6.0 Ω (at 25°C) Check the motor Hall Sensor Check the resistance on the main PCB motor (Between pins 1 and 3, and 1 and 4 of the four (4) pins) Resistance : Approx. 2 to 4 MΩ Check the voltage when the power is on. 	
Communication Error	AC	 The signals between the sub and main PBAs are not sensed. Incorrect wire connections between the sub and main PBAs. 	Check the wire connections and terminal contacts between the sub and main PBAs. Check for disconnected wires. Check whether the sub PBA is short-circuited because of moisture. If the main PBA's communication circuit is faulty, replace it.		
Door Error	DC DC1	 Door switch fault Main PCB fault 	If a dS error occurs, check whether it occurs during the Boil cycle. - If it is detected that the door is open, close the door. The 120V is directly connected to the door. Check and repair the power wire connections and insulation state. Check the door switch. Replace if faulty. Check the main PBA door sensing circuit. Replace if faulty.	TYPE1 Check the door switch Resistance. The resistance of 1 and 3 Pin Must be approximately 175Ω.	

Error Type	Error Mode	Causes	Corrective Actions	Description of Photo
DOOR	DDC	• Main PCB fault	DDC means add door is opened Close the add door. Check add door switch, Barrier, Lock module's movement is operate normally. check Open detection switch and Barrier's Lock pillars coming down while pressing in operation normally. Main PBA door detection circuit is fault or connector combination. Replace or repair if faulty.	Check resistance values normally displayed when you press the door switch button.
DUUK	DC3	Bending connector		Check door lock motor resistance. (1-2 pin 46.57±15Ω) Lock stroke check normal detection on protrusion status. (3-4/3-5 pin check resistance value displayed normally).
Heater Error	HC,HC1	 Disconnection wire Heater falut Wash-thermistor fault 	Check for connection between wire and heater. If wash heater is faulty, replace it. - Refer the TYPE 1 If it is not problem in heater, replace wash-thermistor - Refer the TYPE 2	$FRONT] \qquad \qquad \begin{tabular}{lllllllllllllllllllllllllllllllllll$
Water Leakage Error	LC	 Check for any leakage. Foreign material in the DV case Fault of a hose or incorrect part engagement in the product 	Check for any leakage on the base, Hose, Valve and Tub connections and take any required action. During natural draining, this error occurs because the drain bellows are clogged with foreign material. Remove the foreign material. Check the drain motor operation. Replace if it does not operate normally.	 DRAIN PUMP TYPE (Automatic Drainage) Check whether there is any foreign material in the bellows. Check for any foreign material, such as underwear wires or coins.
				 PUMP TYPE Check for any leakage on the base, Hose, Valve and Tub connections.

Error Type	Error Mode	Causes	Corrective Actions	Descripti	on of Photo
Overflow Error	OC	 Water level sensor fault Freezing in the winter season 	If the water level sensor has a functional error, replace it. Check the hose. This error occurs if it is torn or has a hole. This error occurs if water is frozen in the winter season. Use hair dryer to defrost hose. Consider relocating the unit to warmer location.		Check the hose connected to the water level sensor. Otheck whether the hose is folded, cut, or damaged.
Temperature Sensor Error	TC1	 Washing temperature sensor fault Dry temperature sensor fault Faulty and incorrect connections of the dry condensing sensor Main PCB fault Freezing in the winter season 	Check the connections for the washing heater temperature sensor connector. If the washing heater temperature sensor has a functional error, replace it. - A tE error occurs. Check the connections for the dry heater temperature sensor connector. If the dry heater temperature sensor has a functional error, replace it. Check the connections for the duct condensing temperature sensor connector. If the duct condensing temperature sensor has a functional error, replace it.		- ERMISSION
Unbalance Error	UV	 Motor hall sensor fault Caused by the laundry contents 	Check the type of laundry. Check whether they may cause an unbalanced situat ion. - Educate the consumer in this case is to press pause reposition the load or remove a few items. Press start to continue and	SUTEMITHON	- -
		OPP	Press start to continue and	RDISTRIBUTE.	

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