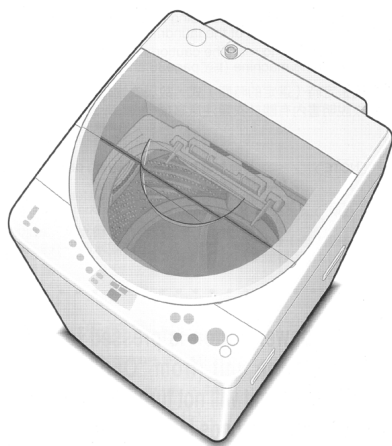


Service Manual

Washing Machine

NA-F80GD

Product Color : White



⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by **⚠** in the Schematic Diagrams, Circuit Board Diagrams, Exploded Views and Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire or other hazards. Do not modify the original design without permission of manufacturer.

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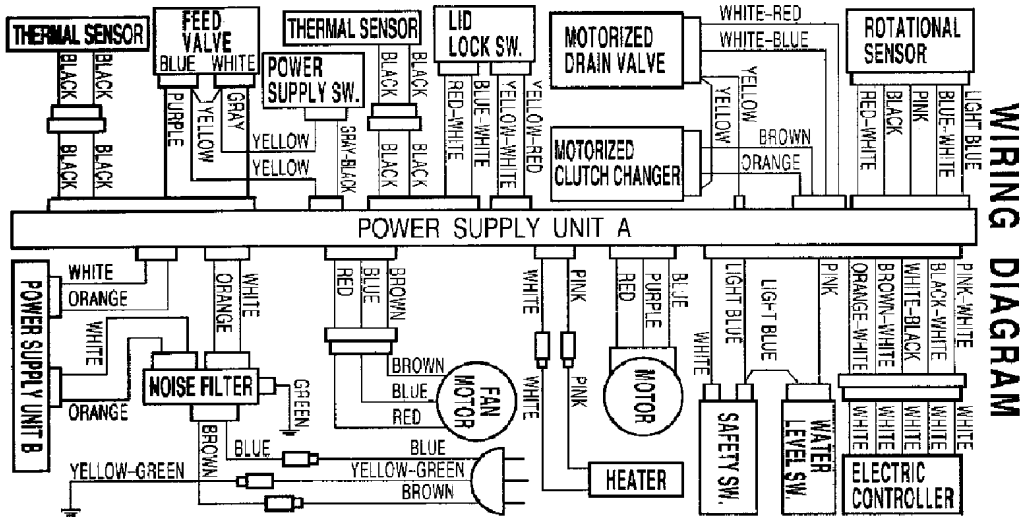
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1 SPECIFICATIONS

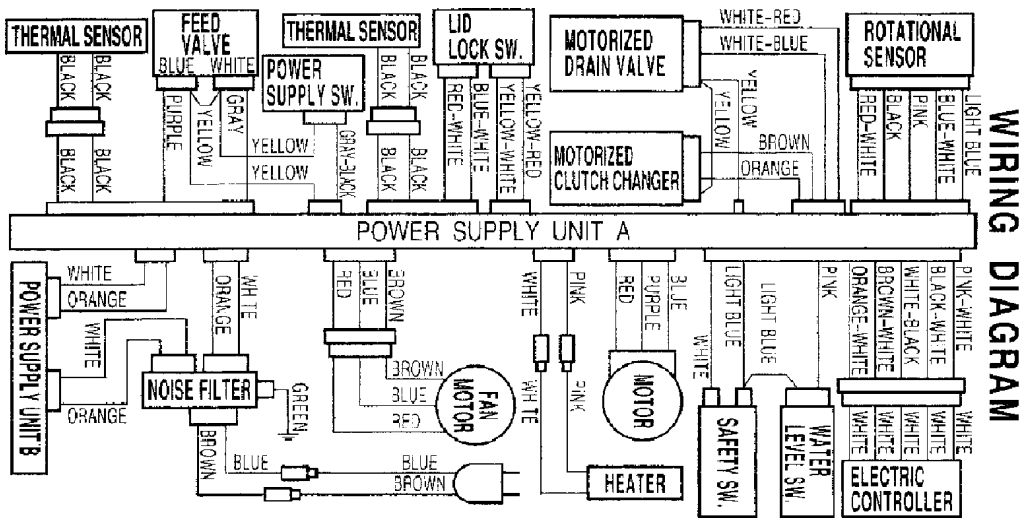
Power source	AC220V , 230V 50Hz		Spin r/min. (Clothes load)	830 r/min.		
Dimension	(Width)599mm (Depth)612mm (Height)1010mm		Machine weight	41kg		
Water level selector (standardized water amount)	Pulsator washing	Centrifugal washing	Power consumption (Motor)		Input	Output
	67L - 8.0kg	67L - 8.0kg		Pulsator	300W	220W
	57L - 5.5kg	57L - 8.0kg	Centrifugal	300W	100W	
	49L - 3.5kg	49L - 5.5kg	Heater (Dry)	770W		
	38L - 1.0kg	38L - 1.5kg	Safety switch	Lid and unbalance switch		
Standardized water consumption (Normal)	125L		Buzzer	Cycle-end buzzer, Give an alarm		
	0.03 to 1MPa (4.3p.s.i to 142p.s.i)		Thermal protector	Motor		
Operating Water pressure			Softener dispenser	Providing		
			Bleach inlet	Providing		
			Lint filter	Providing		
			Auto power off	Providing		
Pulsator r/min. (Clothes load)	130 r/min.		Accessories	Pressure hose (Inlet hose) Feed valve joint A Service hose B unit		

2 SCHEMATIC DIAGRAM

2.1. For 3 pin plug



2.2. For 2 pin plug



3 PRODUCT INFORMATION

3.1. Timer type drying function

Below half the height of the stainless steel part of the tub represents a load of under 3.0kg.

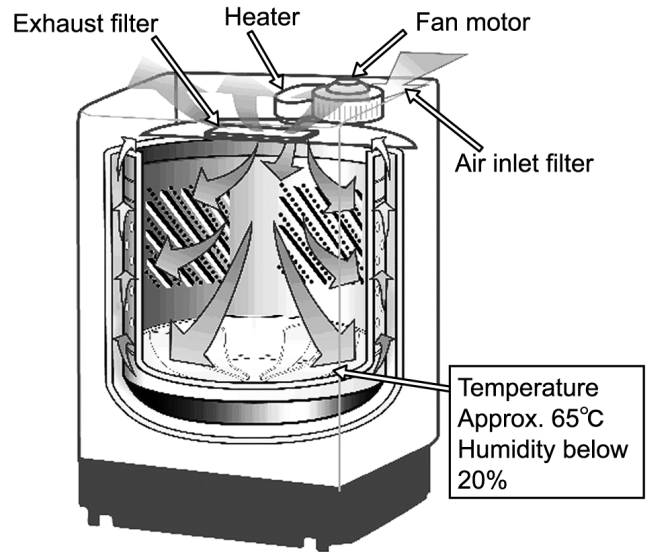
The heater, fan motor and fan case are providing inside of the panel, and drying function shall be operated by timer control.

Exhaust air including humid air shall be come out from upper portion of the tub through the exhaust filter.

<Approximate drying time>

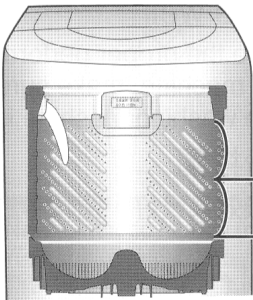
	Drying capacity	Necessary hours
1.	3.0kg	Approx. 3 hours
2.	2.0kg	Approx. 2-3 hours
3.	1.0kg	Approx. 1.5-2 hours
4.	0.5kg	Approx. 1-1.5 hours

***Dried up conditions shall be changed against atmospheric temperature, humidity and installations.**



Dryer capacity 3.0kg

Putting in too many garments will lessen the dryer's effect and cause wrinkles.



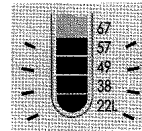
Below half the height of the stainless steel part of the tub represents a load of under **3.0kg**.

Remaining time indication for drying

It is not possible to indicate remaining time more than 100 min. due to two digit. therefore, even select more than 2 hours (2 and 3 hours), "..."mark shall be indicated at start of drying and indicate proper remaining time from 90 min. Remaining time shall be decreased on every one minute.

Overfilling (over capacity) indicator

■ When the water level indicator flashes

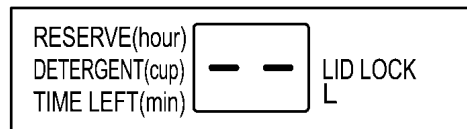


➡ The capacity exceeds 3.0kg. (Flashes for about 30 seconds.)

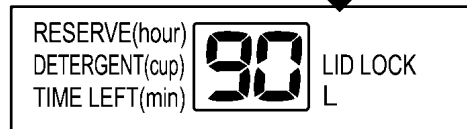
Ex.) Remove the equivalent of one bath towel (300g)
 • After about 30 seconds, Operation resumes.

• Over capacity detection is only enabled when inserting dry items for WASH & DRY with Normal Course.

Start of operation



Remaining time from 90 min.



Drying process (Power save course)

		Heater ON		Heater OFF		Heater ON		Air fluff
Dry time	30 min.		3 min.		12 min.		15 min.	same as normal timer program
	60 min.		3 min.		25 min.		32 min.	
	90 min.		4 min.		38 min.		48 min.	
	120 min.		6 min.		51 min.		63 min.	
	180 min.		9 min.		77 min.		94 min.	
Relay for heater	ON	10 sec.	ON			ON		
	OFF		Thermal temp. 85°C		OFF			

Drying process (Normal timer course)

		α (min.)		β (min.)		γ (min.)		Air fluff				Dry keep	
		Temp.	~25	25~35	30~35	35~	(min.)	~25	25~35	30~35	35~		
Dry time	30 min.	10 min.	(t 1=10 min.)		16 min.	(t 2=1 min.)		4 min.	(t 3=3 min.)		2 hours		
	60 min.	20 min.	(t 1=20 min.)		36 min.	(t 2=1 min.)		4 min.	(t 3=3 min.)				
	90 min.	30 min.	(t 1=30 min.)		40 min.	(t 2=1 min.)		20 min.	(t 3=3 min.)				
	120 min.	40 min.	(t 1=40 min.)		40 min.	(t 2=1 min.)		40 min.	(t 3=3 min.)				
	180 min.	60 min.	(t 1=80 min.)		60 min.	(t 2=1 min.)		60 min.	(t 3=3 min.)				
Tub r.p.m	700 r/min	← t1 →		Flapping		Flapping only		Flapping only				Flapping (Once in 5 min.)	
	35 r/min			t2		t3							
	0 r/min			1 min.		1 min.							
Flapper 150 r.p.m	①1.5 sec. on - 1.0 sec. off×2 times (clockwise 50rpm)		①1.5 sec. on - 1.0 sec. off×2 times (clockwise 50rpm)		①1.0 sec. on - 2.0 sec. off×1 return (50rpm) (150rpm)		①1.0 sec. on - 2.0 sec. off×1 return (50rpm) (150rpm)		0.4 sec. on - 1.2 sec. off				0.3 sec. on - 1.2 sec. off×2 return
	②1.0 sec. on - 1.0 sec. off×2 return (50rpm) (150rpm)		②1.0 sec. on - 1.0 sec. off×2 return (50rpm) (150rpm)		②0.4 sec. on - 1.2 sec. off		②0.4 sec. on - 1.2 sec. off						
		③0.3 sec. on - 1.2 sec. off×2 return		③0.3 sec. on - 1.2 sec. off×10 min.									

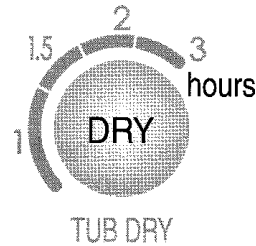
★Heater temperature shall be controlled by TH-3., (85°C:5 min. ON, 1 min. OFF) and (90°C:1 min. ON, 5 min. OFF)

3.2. Use the "TUB DRY" function to prevent black mold

Activating "Tub Dry" after the wash is complete eliminates the humidity in the tub that is one cause of black mold. (Activate once a week)

1. Turn on the power supply
Press DRY to select "Tub Dry".
2. Close the inner cover and the lid and press START

The washing machine will rotate the tub quickly and blow in hot air for roughly 30 minutes.



➡ The operation is finished when the buzzer sounds.

NOTE

- The occurrence of black mold in the tub depends on the usage environment.
- Once black mold has formed, activating "Tub Dry" will not remove it.

3.3. Lid lock and release

The lid lock is set during "Rinse", "Spin", "First half drying" and "Tub Dry"

To release the lid lock

(The lid is locked)

RESERVE(hour) 10 LID LOCK L Lights up

DETERGENT(cup)

TIME LEFT(min)

Note

- Do not apply force to open the lid when locked. (You may damage the lid)

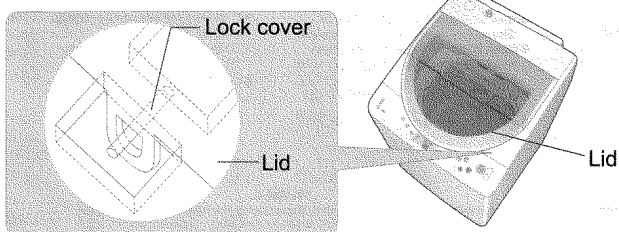
Caution

- Do not pull out the power plug. (The lock will not be released)
- By changing the tub rotation brake mechanism from "Mechanical" to "Electric", the lock can only be released when there is a power supply present.
- If the washing machine is turned OFF, turn the switch ON.
- ※In the event of a power outage, wait for the power to return before turning the switch ON.

Press and wait for the snapping sound.

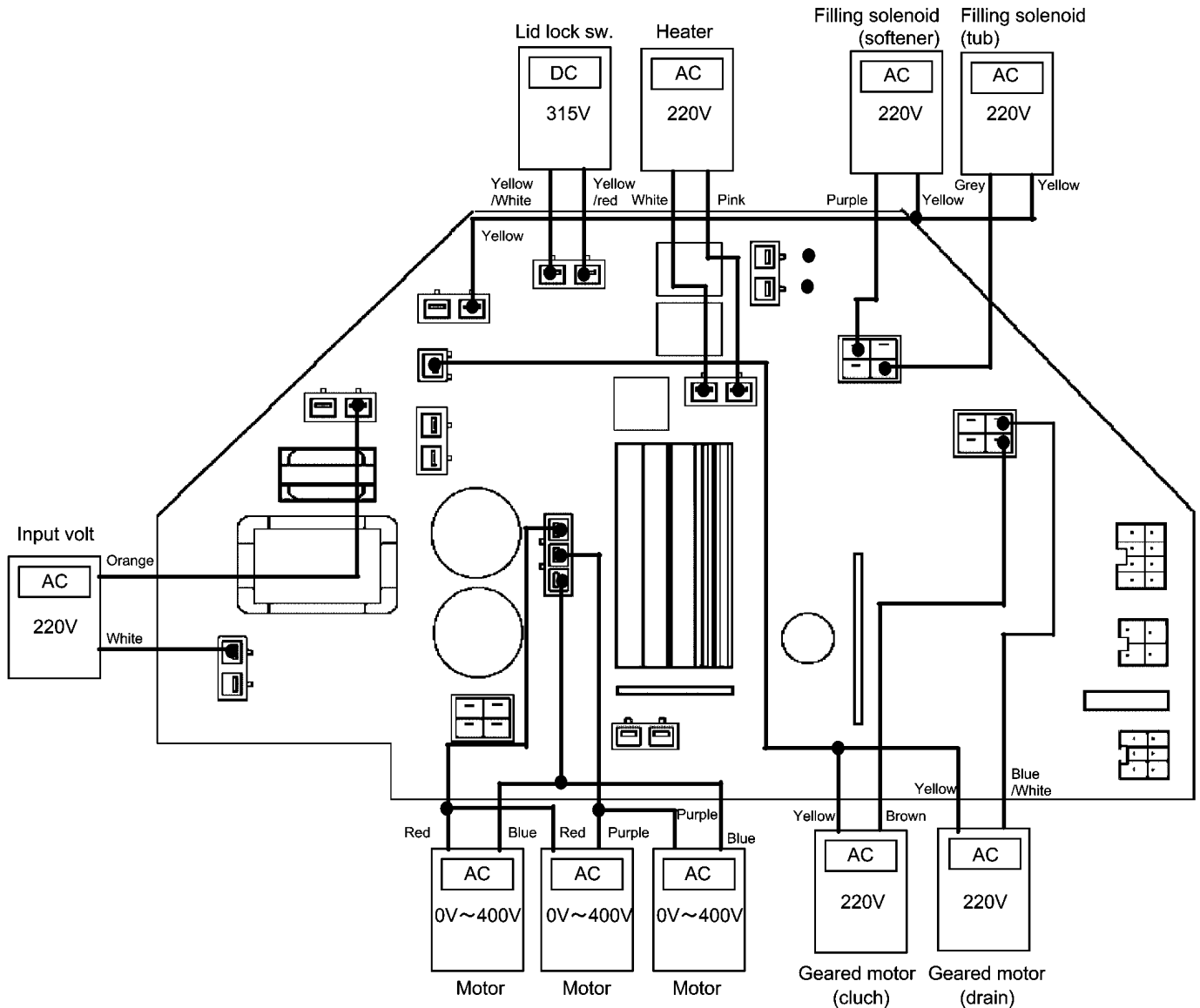
The lock is released when the tub stops rotating.
※The tub stops rotating after about 15 seconds.

Lid lock mechanism

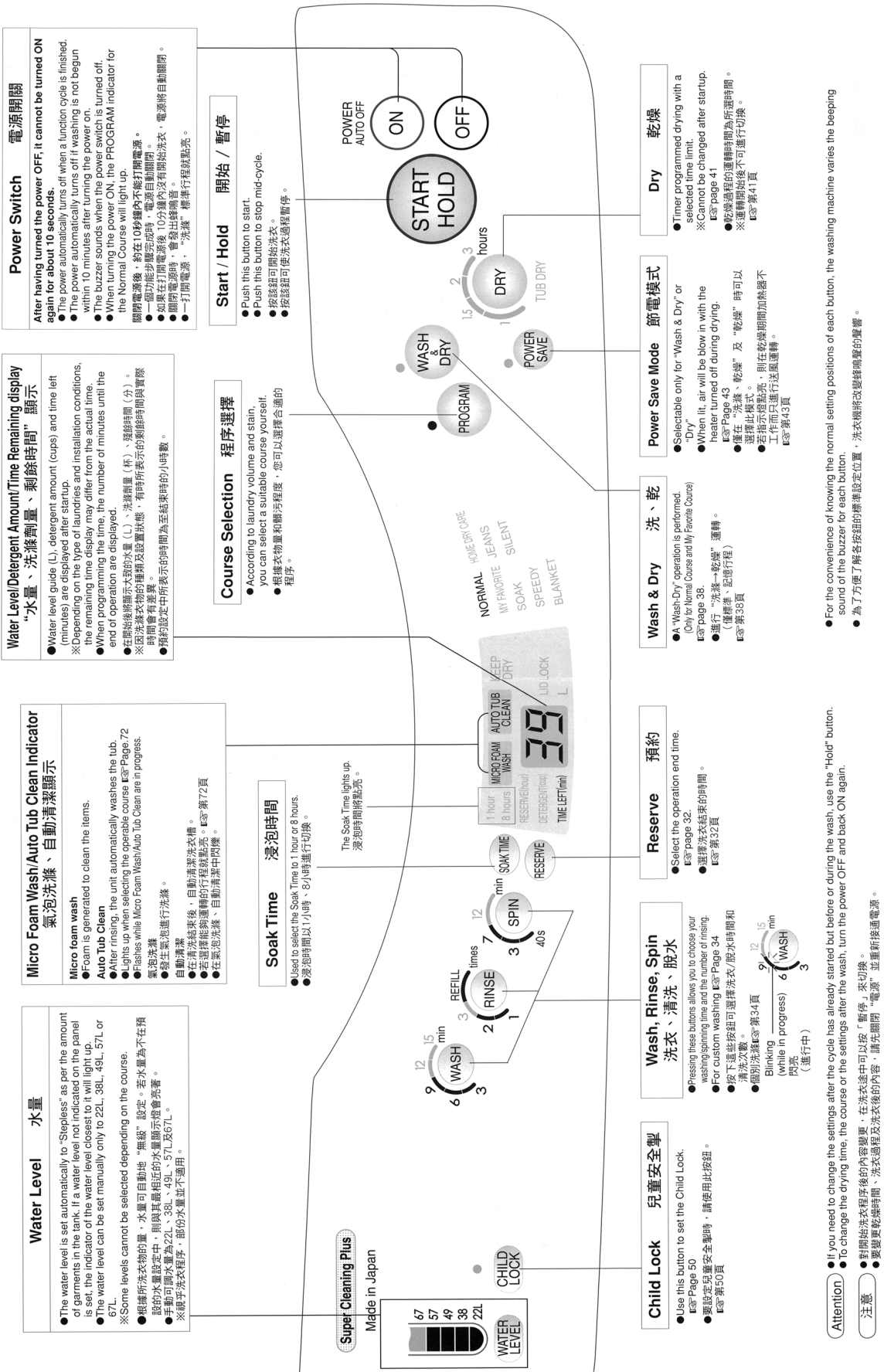


4 CHECK INPUT AND OUTPUT VOLTAGE OF THE PC.BOARD

1. Before replace PC.Board, check input and output voltage of the PC.Board.
2. Check range of the test meter.
3. When check output voltage of the PC.Board, set a program of the Washing Machine on the working mode.
4. In case of measuring the motor circuit, Confirm all of 3 combinations (Red-Purple, Red- Blue and Blue-Purple) whether normal conditions or not.
5. In case of measuring push switch circuit, It shall not be pressed Power-ON button measured AC 220V, And press Power-ON button once to change AC 0V.



5 OPERATIONS



6 DRYING TIPS



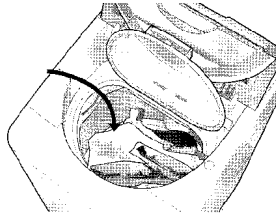
Keypoints for drying

為取得更好的乾燥效果

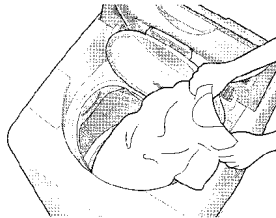
■To ensure the least wrinkling

■為減少乾燥後的折皺

- Hold the operation and switch the items on top for those on the bottom. (Less tangling and less wrinkling results.)
- 在運轉中途使其暫停，並將衣物的上下位置顛倒。（衣物疏鬆，折皺減少）
- Decrease the load from 3.0kg to 2.1 ~ 2.4kg.
- 放入少於乾燥容量（3.0kg）的衣物（2.1~2.4kg）。



- When the buzzer sounds, take the items out immediately.
- 報知結束的蜂鳴器響後，馬上取出衣物。

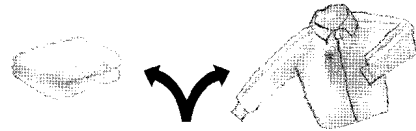


■To eliminate uneven dryness

- Do not put too many items in the washing machine.
- Separate difficult to dry items (cottons, heavy garments) from easy to dry items (synthetics).
- Do not dry items that are not spin-dried enough.
- Clean the exhaust filter and the intake filter after every run.
- Hold the operation and remove already dried items. (Light items such as synthetics (fleece) rise to the top) rendering other items difficult to dry.

■為減少乾燥不均現象

- 不要放入過多衣物。
- 將不易乾的衣物（棉料、厚料的衣物）與易乾的衣物（化纖料）分開乾燥。
- 不要在未充份脫水的狀態下進行乾燥。
- 要每次清掃排氣過濾網、吸氣過濾網。
- 在運轉中途使其暫停，先將已乾的衣物取出。（化纖（絨毛狀衣物）等較輕的衣物乾燥後，容易轉到上面去，這使別的衣物難乾。）



Hints about shrinking

關於乾燥引起的收縮問題

There are many types of garments that shrink just by wetting, washing and drying them. This occurs because the elasticity worked into them during fabric processing returns to its original state when washing. Drying may result in even more shrinkage.

一般來說，將衣物浸於水中，進行洗滌並乾燥後，往往會出現收縮現象。這是因為布料加工時所施加的張力因洗滌而消失。經過運轉乾燥後，有時收縮會更嚴重。

■Cottons, linens and other knits

- Mechanical energy is applied to cottons, linens and other knits when drying leading to clogging and shrinking of the stitch loops.



■棉、麻等的針織品

- 將棉、麻針織品進行運轉乾燥時，會施加以機械力，使針織孔堵塞，從而有可能引起收縮。

■Synthetic garments

- The synthetic fabric itself shrinks due to the applied heat when drying.

■化纖衣物

- 化纖本身在受熱時，有可能出現收縮。



■To reduce shrinkage

- Make sure to check the illustrations and material appearing on the tag prior to drying.
- Drying garments first by hanging them outside and then putting them in the dryer makes great results. Learn to combine open-air drying with machine drying.
- Cottons that have shrunk down can be more or less brought back to their original shape by soaking and stretching them.

■為減少收縮

- 在乾燥前，仔細確認衣物上的圖文表示及原材料表示。
- 掛著晾至快乾時，再進行最終乾燥。這樣採取洗衣機與陽光乾燥結合。
- 對已經收縮了的棉製品等衣物，使其充份浸濕後，再進行拉伸，便可一定程度地改善收縮。



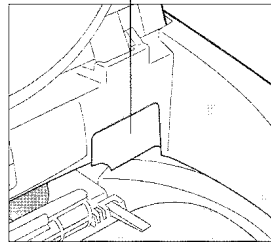
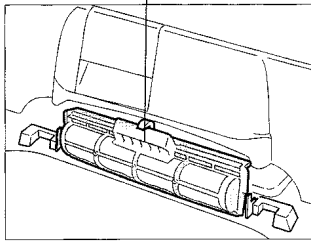
7 CHECK PRIOR TO START UP

Check prior to start up

■ Clean out the exhaust filter and the intake filter after every run. Reinsert them securely after cleaning them out.

■ 排氣過濾網，吸氣過濾網要每次清掃，並要安裝妥當。

● Exhaust filter ● 排氣過濾網 ● Intake filter ● 吸氣過濾網



- ※ Clogged filters diminish the washing machine's drying power.
- ※ Not installing filters correctly will cause the accumulation of dust in the washing machine leading to malfunctions.
- ※ 若過濾網網眼堵塞，則乾燥效果會降低。
- ※ 若在過濾網未安裝好的情況下使用，洗衣機內會積存灰塵，從而造成故障。

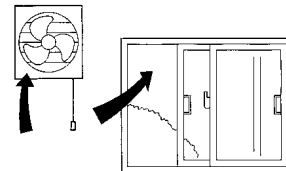
運轉前的確認

Ventilate well

To ensure the proper performance of the washing machine, make sure to ventilate well while the washing machine is functioning.

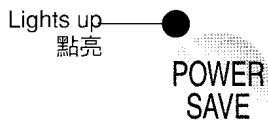
要充份換氣

為使乾燥效果良好，運轉中應進行充份換氣。



- ※ Lack of ventilation may cause condensation in windows, walls and flooring due to a change in humidity level.
- ※ 換氣不充份時，有可能因溫度差而造成窗、牆及地板上結露水。

Power Save



Because the washing machine blows only air into the tub without using the heater midway through the drying operation, it reduces energy consumption when drying.

- Selectable only for "WASH & DRY" and "DRY" courses.
- ※ If selecting the Power Save mode, increase the set drying time to compensate for the loss in drying power.

在乾燥期間加熱器不工作而只進行送風運轉，所以能夠節省乾燥時的電費。

- 僅在“洗滌、乾燥”、“乾燥”行程時可以選擇。
- ※ 當選擇了節電模式時，乾燥衣物要比通常的乾燥來得慢，所以請設定較長的乾燥時間。

關於節電模式

Keep Dry

After drying, the pulsator rotates for 6 seconds every 5 minutes over a period of about 2 hours to maintain the fluffiness of the items. (light flashes while in progress)

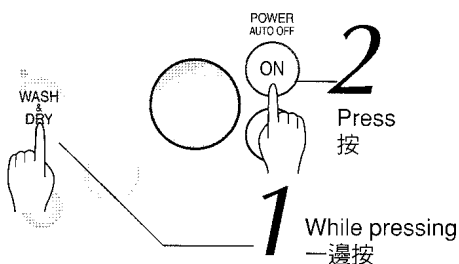
- Drying is complete, quickly remove the items from the washing machine.
- ※ Opening the lid while in progress will cut the power off.
- At the time of purchase, the default setting for Keep Dry is "OFF".

關於乾燥柔軟保持

在乾燥結束後，每隔5分鐘旋轉葉輪旋轉6秒鐘進行運轉（約2小時），使衣物保持乾燥柔軟。（在乾燥柔軟保持中，指示燈閃爍。）

- 由於乾燥已經結束，所以請儘早取出衣物。
- ※ 若在中途打開蓋子，電源將會關閉。
- 在您剛買回家時，被設定在不進行乾燥柔軟保持狀態。

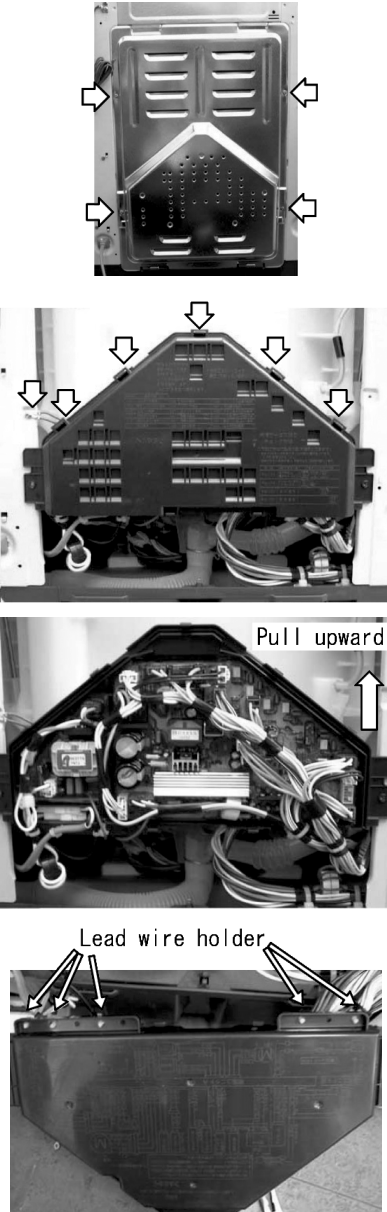
How to set Keep Dry 乾燥柔軟保持的設定方法

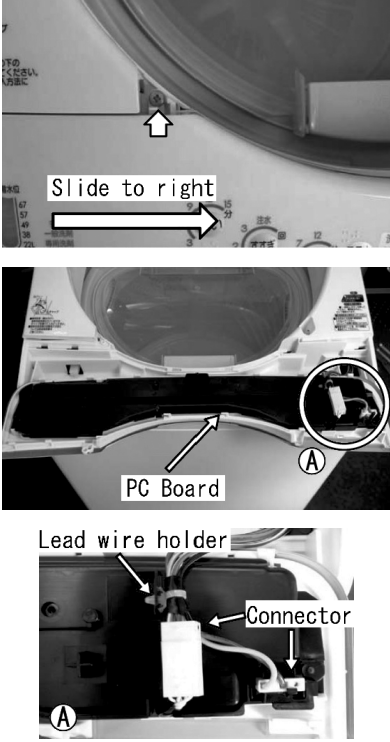
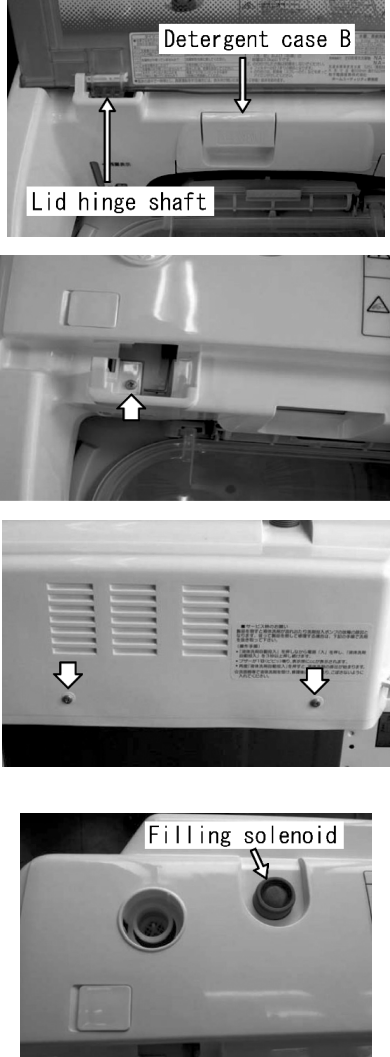


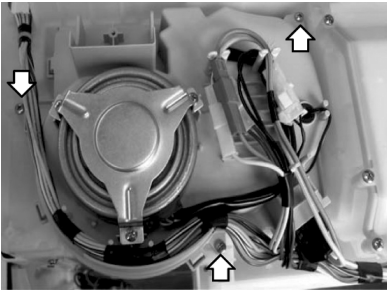
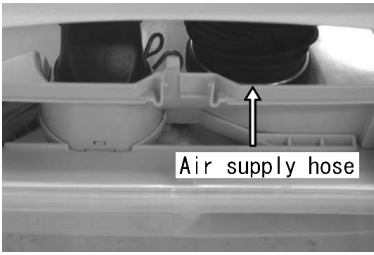
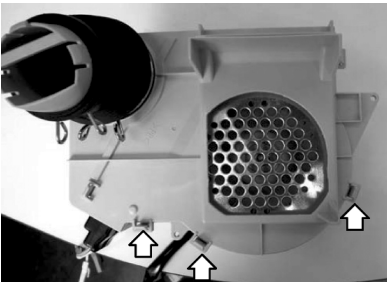
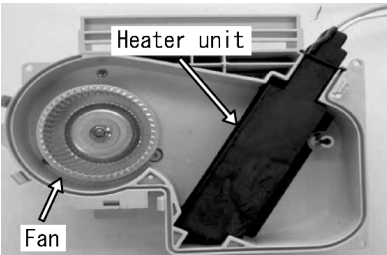
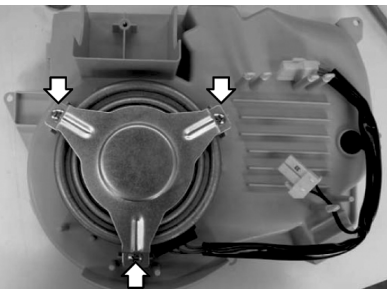
Press the power ON button while pressing down on the "WASH & DRY" button for at least 3 seconds.


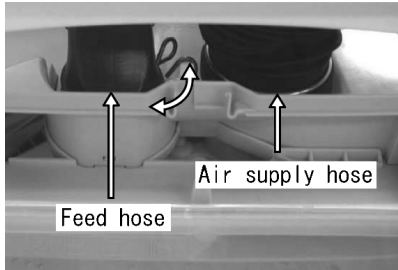
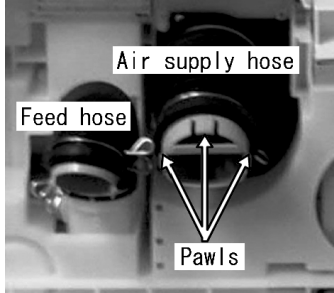

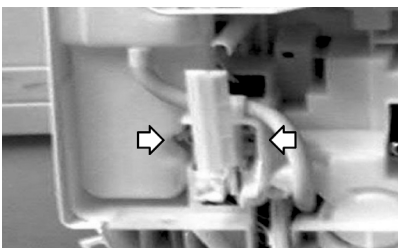
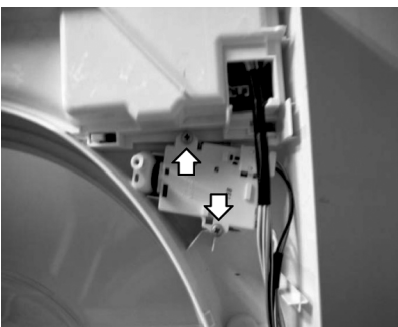

- The buzzer will sound once indicating that the "Keep Dry" setting is enabled. However, the indicator does not light up. Press "WASH & DRY" again and check if the indicator is lit up.
- To return Keep Dry to "OFF", repeat items 1 and 2. The buzzer will sound twice. 一邊按“洗滌、乾燥”按鈕一邊按電源“入（打開）”按鈕，持續按“洗滌、乾燥”按鈕3秒以上。
- 蜂鳴器鳴響一次（嗶嗶一），則表示“乾燥柔軟保持”已被設定好，但由於指示燈不點亮，所以請再按一次“洗滌、乾燥”按鈕以確認指示燈是否點亮。
- 要回復到“無”乾燥柔軟保持時，請再次進行1和2的操作。蜂鳴器將鳴響兩次。

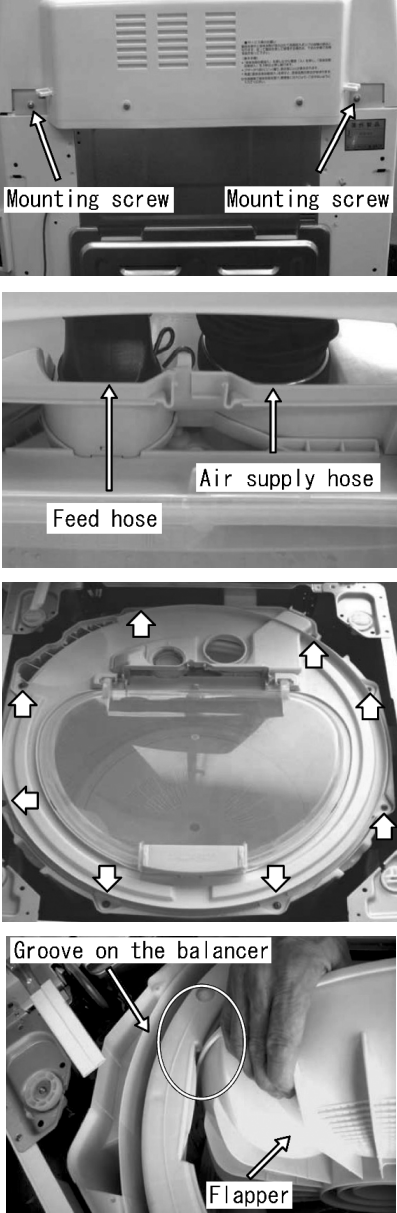
8 DISASSEMBLY INSTRUCTIONS AND ADJUSTMENTS

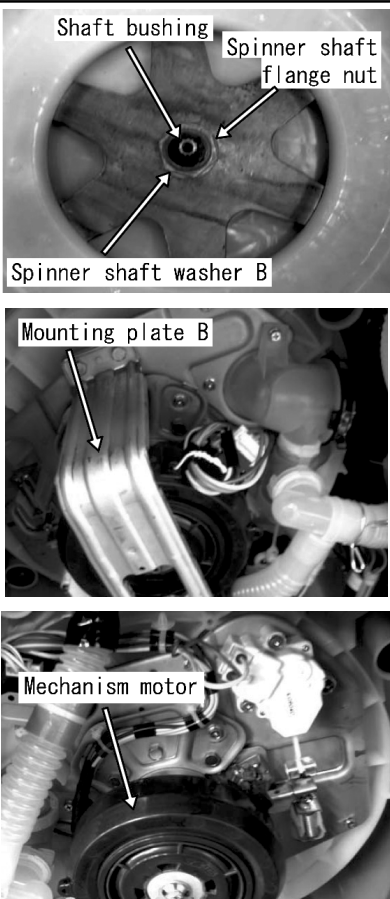
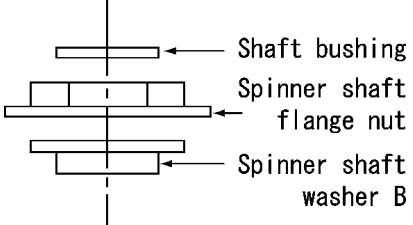
<p>PC Board (Power side)</p>		<ol style="list-style-type: none">1 Remove the back panel.(4 screws) 2 Remove the insulation spacer.(5 pawls)3 Remove the earth wire.(1 screw) 4 Remove connectors, and pull the PC Board upward to remove the PC Board w/components from the body. 5 Remove the tip of the lead wire holder by using long nose pliers.
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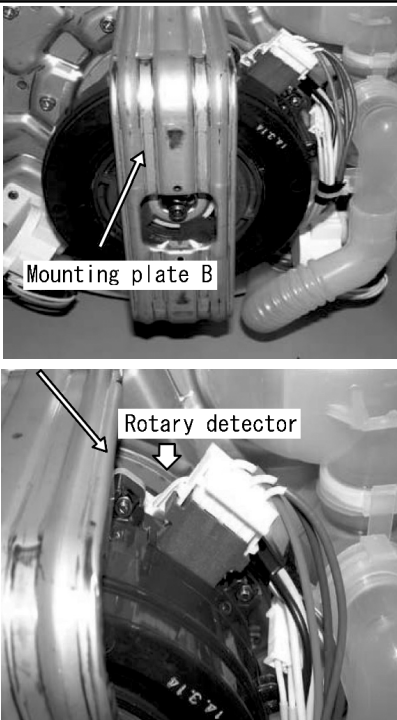
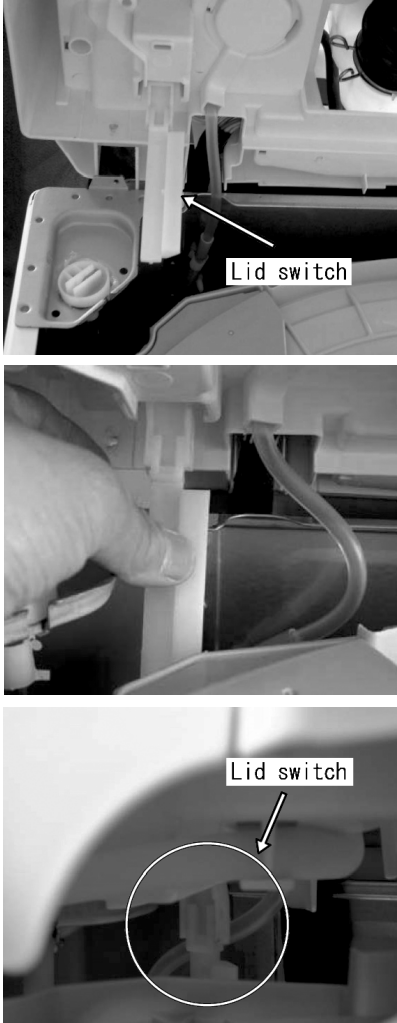
<p>PC Board (Operation side)</p>	 <p>Slide to right</p> <p>PC Board</p> <p>Lead wire holder</p> <p>Connector</p>	<ol style="list-style-type: none"> 1 Open the lid, and remove the panel A packing. After that, remove one screw mounting the panel face A. 2 Slide the panel face A to right to remove. 3 Turn the panel face A back side front. 4 Remove pawls holding the PC Board. 5 Remove 2 connectors from the PC Board. 6 Remove the lead wire holder by using the pliers.
<p>Body B</p>	 <p>Detergent case B</p> <p>Lid hinge shaft</p> <p>Filling solenoid</p>	<ol style="list-style-type: none"> 1 Open the lid and remove the lid hinge shaft. After that remove the lid. 2 Pull out the detergent case B. 3 Remove 2 screws mounting the body B. (Bottom portion of the both left and right of the lid) 4 Remove 2 screws mounting the back side of the body B. 5 After pull up the back side of the body B, slide the body B frontward to remove. (Front portion shall be held by pawls) <p>* In case to remove the body B, Be careful at screw portion of the filling solenoid.</p> <p>* In case to mount the body B, After set the sub tank to the body B.</p>

<p>Heater Fan Fan motor</p>	    	<ol style="list-style-type: none"> 1 Remove the body B. (Refer page of the body B) 2 Remove the connector of the heater, detector and the motor. 3 Remove 3 screws mounting the fan case unit. <ol style="list-style-type: none"> 4 After open the inner lid, remove the air supply hose after remove the pawls of the duct for holding the air supply hose. <ol style="list-style-type: none"> 5 Take out the fan case unit, and remove pawls holding the fan case A, and remove the fan case C (Made of steel). <p>Replace the heater</p> <ol style="list-style-type: none"> 6 Take out the heater unit, and remove the heater. <p>Replace the fan</p> <ol style="list-style-type: none"> 6 Turn the nut clockwise to remove, and remove the fan. <p>Fan motor</p> <ol style="list-style-type: none"> 6 Turn the nut clockwise to remove, and remove the fan. 7 Remove 3 screws mounting the fan motor.
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<p>Lid lock switch Lid switch</p>	 <p>Mounting screw Mounting screw</p>  <p>Feed hose Air supply hose</p>  <p>Air supply hose Feed hose Pawls</p>  <p>Panel A sheet</p>  	<ol style="list-style-type: none"> 1 Remove 2 screws mounting the body B. 2 Turn the feed hose clockwise slightly to remove holding portion of the feed hose. 3 Open the inner lid, and remove the air supply hose by removing pawls of the air supply hose. 4 Slide the body B frontward after pulling up rear portion of the body B slightly. (Front portion of the body B shall be holded.) 5 Set the body B against wall as shown in figure. <p>Replace the lid switch</p> <ol style="list-style-type: none"> 6 Remove 2 screws mounting the lid switch. 7 Remove 2 connectors from the lid switch. <p>Replace the lid lock switch</p> <ol style="list-style-type: none"> 6 Remove a screw mounting the panel A sheet. (As shown right photo) 7 Remove 2 connectors from the lid lock switch. 8 Remove 2 screws mounting the lid lock switch. 
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<p>Mechanism case</p>	 <p>Mounting screw Mounting screw</p> <p>Feed hose Air supply hose</p> <p>Groove on the balancer</p> <p>Flapper</p>	<ol style="list-style-type: none"> 1 Remove 2 screws mounting the body B. 2 Turn the feed hose clockwise slightly to remove pawls, and remove the feed hose. 3 Open the inner lid, and remove the air supply hose by removing pawls of the air supply hose. 4 Slide the body B frontward after pulling up rear portion of the body B slightly. (Front portion of the Body B shall be holded.) 5 Set the body B against wall. 6 Remove 8 screws and 1 pawl mounting the outer tub cover to remove. 7 Remove the flapper. <p>* Do not remove mounting screw completely, hold the screw of the flapper and pulling out.</p> <p>* Incase to pull out the flapper from the tub, Remove 2 detergent inlet (Blue pocket) from the tub, so that the flapper shall be throughed at groove on the balancer.</p>
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<p>Mechanism case</p>	 <p>Shaft bushing Spinner shaft flange nut Spinner shaft washer B</p> <p>Mounting plate B</p> <p>Mechanism motor</p>	<p>8 Remove the shaft bushing, Spinner shaft flange nut and the spinner shaft washer B.</p>  <p>9 Pull upward the tub to remove.</p> <p>10 Lay down the machine on it nothing drain hose side. * Please spread cloth to prevent scratch on the body.</p> <p>11 Remove 2 screws mounting the mounting plate B.</p> <p>12 Remove both connector for the motor and rotary detector. 13 Remove 6 screws mounting the mechanism motor.</p>
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<p>Rotary detector</p>		<p>1 Lay down the machine on it nothing drain hose side.</p> <p>* Please spread cloth to prevent scratch on the body.</p> <p>2 Remove 2 screws mounting the rotary detector. 3 Remove the connector.</p>
<p>Caution to put the body B on to the body A</p>		<p>1 Before put the body B on to the body A, Check if the lever of the lid switch is not bent.</p> <p>2 Pull the tub frontward, and insert the lever properly. 3 After set the body B, check condition of the lever of the lid switch.</p> <p>* How to check condition of the lid switch movement. If it is normal condition, In case to push the tub to lid switch lever side, water amount lamp shall be indicated 67L.</p>

9 TEST RUNNING WITHOUT WATER

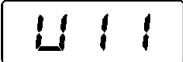
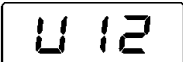
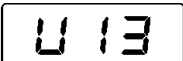
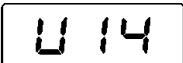
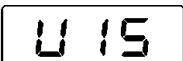
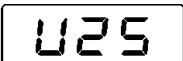
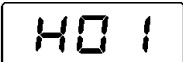
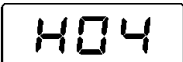



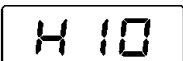

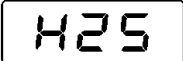
9.1. METHOD TO TEST RUNNING WITHOUT WATER

1. Set the power switch to "OFF".
2. Press and hold both the "Water level" and "Wash" buttons with one hand.
3. Set the power switch to "ON".
4. Release the your fingers from the buttons and power switch you pressed in step (2) and (3) above.(Check A and be carried out in this state with your fingers released.)
5. Within three seconds, press the "Water level" button to set to the desired check procedure. (Carry out check B,C,D,E,G and H.)

Number of times the "Water level" button is pressed	Check Mode	Check contents	Lamp illumination condition	Operation condition
0	A	<ul style="list-style-type: none"> · End signal · Time indication · Auto power off 		<ul style="list-style-type: none"> · When the end buzzer sounds three times,"88" will simultaneously flash on and off in the remaining time display, and the power will automatically be switched off immediately after operation is finished. If other numbers or characters than "88" appear in the remaining time display, operate service check B-mode.
1	B	<ul style="list-style-type: none"> · Wash operation · Feed valve (To rinse case) operation 		<ul style="list-style-type: none"> · Even if there is no water in the tub, the washing operation will continue for six minutes. · Press "Wash" button to change water flow. · During keep pressing "Rinse" button to check conducting condition of rinse case's feed valve. · "H05,H08" is displayed in case of P.C.Board fault.
2	C	<ul style="list-style-type: none"> · Spin operation · Lid switch operation 		<ul style="list-style-type: none"> · The spinning operation will continue for Eight minutes. · In case contact point of the lid switch are OFF position, "Lid" indication light up. · To check spin operation by opening the lid, press "Wash" button.
3	D	<ul style="list-style-type: none"> · Drying · Fan · Heater · Cock packing 		<ul style="list-style-type: none"> · Drying process shall be operated 2 minutes. · Rotate the tub approx. 35 rpm, and operate the fan, heater and cock packing.
4	E	<ul style="list-style-type: none"> · Set water level 1 rank higher than laundry amount detector 		<ul style="list-style-type: none"> · Press the wash button to change L0 to L1 and press Start/Hold button to confirm.
5	G	<ul style="list-style-type: none"> · Indicated Abnormal alarm of last 2 times 		<ul style="list-style-type: none"> · "E" shall be indicated initially, Press "Wash" button to change last time to the time before last and return to E as initial mode. · If there were some abnormal alarm in the past, "U or H" and some number shall be indicated mutually. If it had no abnormal alarm,"00" mark has displayed.
6	H	<ul style="list-style-type: none"> · Indicated operation times 		<ul style="list-style-type: none"> · "C" shall be indicated initially, Press "Wash" button to change "Indication of digit of operation times. Press once:Digit "Thousand-Hundred" for washing Press twice:Digit "Ten-One" for washing Press 3 times:Digit "Thousand-Hundred" for drying Press 4 times:Digit "Ten-One" for drying Press 5 times to return to "C" digit.

9.1.1. Error indication descriptions

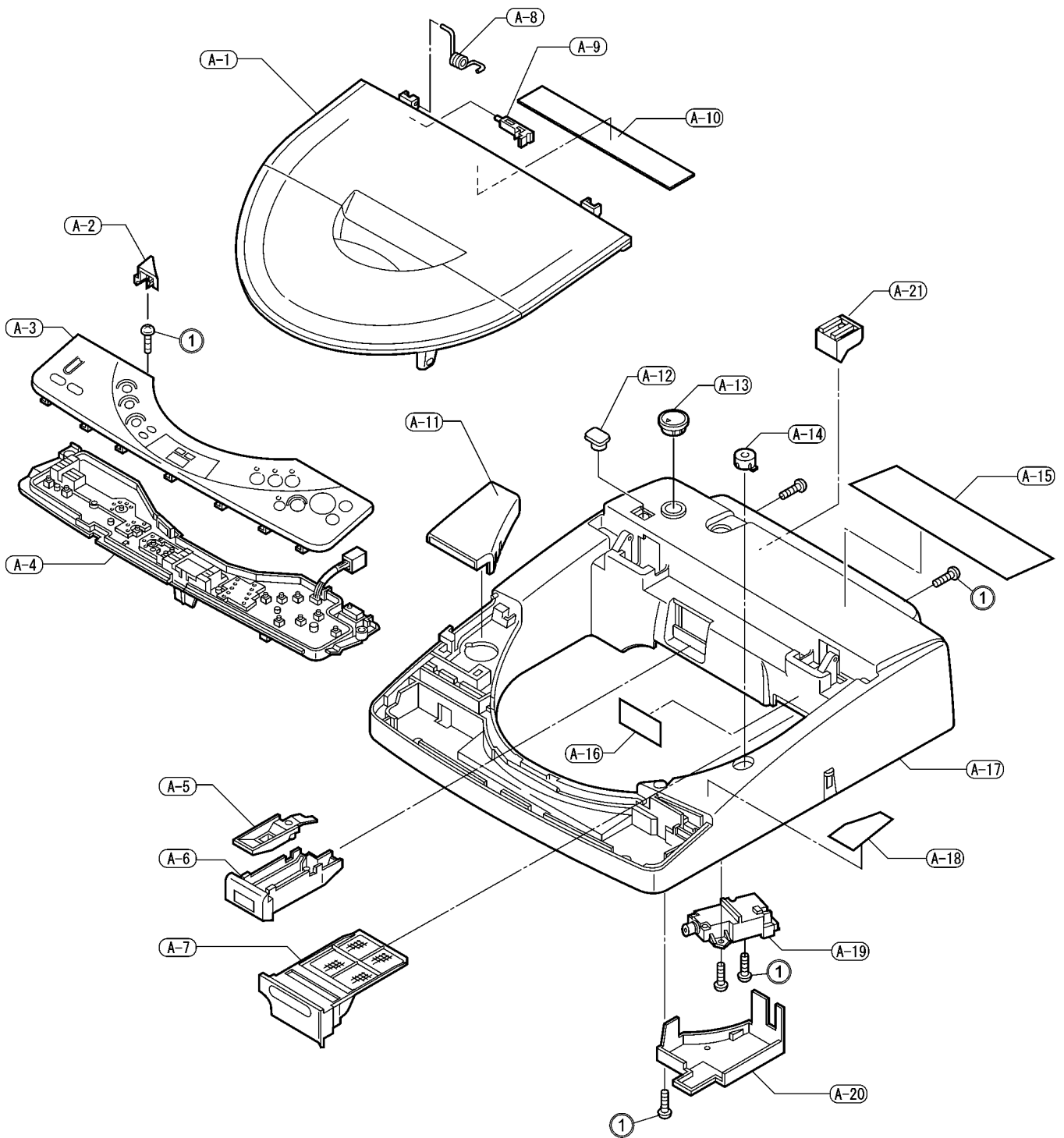
If there is an operation error, or if there is a problem with washing machine, operation shall be stopped and warning buzzer will sound (All of U and H21), and an error indication will be display-ed Alphabet and Number alternately.

Indication	Contents	Detect contents	Check point	Method to clear
	Malfunction of drain	Incase won't detect reset point in 6min.	<ul style="list-style-type: none"> • Is something wrong with the drain hose? • Is lint clogging it? • Is it kinked and takes more than 5 minutes to reset point? • Check if condition of the water level detector. 	Opening and closing the lid.
	The lid is open	Lid is opening at spin process.	<ul style="list-style-type: none"> • Is the lid open? Close it. • Check if magnet on the lid. • Check if condition of contact point of the lid switch on the PC.Board. 	Close the lid.
	Unbalanced load	Detect unbalanced load at spin process.	<ul style="list-style-type: none"> • Has the clothes accumulate into one side? • Has the unit been leveled? 	Open the lid and redistribute the load.
	Malfunction of Water supply	It's takes over 30min. to reach selected water level.	<ul style="list-style-type: none"> • It's takes over 30min. to reach selected water level. • Check if condition of water faucet. • Check if condition of the feed valve and PC.Board. 	Opening and closing the lid to return to initial stage of water supply.
	Water remain at drying process	Detect water more than reset point at drying process.	<ul style="list-style-type: none"> • Drain water from the tub by spin process. 	Remove the power cord.
	Unbalanced load at drying	Detect unbalanced load at drying process.	<ul style="list-style-type: none"> • Has the clothes accumulate into one side? • Has the unit been leveled? 	Open the lid and redistribute the load.
	Water level detector	Input frequency of water level detector is out of rated frequency.	<ul style="list-style-type: none"> • Check if condition of the connectors. • Replace water level detector. • Replace PC.Board (Power side). 	Press Power (Push) switch to OFF position.
	Short circuit of power relay on the PC.Board	Detect short circuit of the power relay on the PCB (Power).	<ul style="list-style-type: none"> • Check if condition of the Power (Push) switch (it shall be kept condition). • Replace PC.Board (Power side). • Check if no leaking between body and lead wires. 	Remove the power cord.
	Data shall not be memorized	Data won't saved (In case of service check-B).	<ul style="list-style-type: none"> • Replace PC.Board (Power side). • Effected service mode (Check-B) only. 	Press Power (Push) switch to OFF position.
	Mulfuction of rotary detector.	No input signal from rotary detector when the motor ON.	<ul style="list-style-type: none"> • Check if condition of the connector and lead wire of the rotary detector. • Replace the mechanism motor. • Replace the PC.Board (power side). 	Press power (push) switch to OFF position.
	Open circuit of PC.Board's communication line	Won't communicate between PCB (Power and Operation).	<ul style="list-style-type: none"> • Check if lead wire condition of PC.Board between power and operation side, and replace one of PC.Board's. 	Remove the power cord.
	Malfunction of thermistor	Oper and short circuit of thermister (TH3)	<ul style="list-style-type: none"> • Check if condition of connector. • Replace the fun case B (thermistor) • Open-circuit 206kΩ • Short-circuit 94kΩ 	Press Power (Push) switch to OFF position.
	Water shall be leaked from filling solenoid (feed valve)	Water level detector detect decreasing of water level.	<ul style="list-style-type: none"> • Clean the diaphragm inside of the feed valve or replace the feed valve. • Check if output voltage of the PC.Board (Power side). • Operate Geared motor and drain water. 	Press Power (Push) switch to OFF position
	Mulfuction of Geared motor for drain.	Geared motor won't operate even if 20sec. past after start of drain.	<ul style="list-style-type: none"> • Check if condition of the connector for geared motor. • Replace the geared motor. • Replace the PC.Board (Power side). 	Press Power (Push) switch to OFF position

Indication	Contents	Detect contents	Check point	Method to clear
426	Mulfunction of clutch.	Geared motor won't operate in wash process.	<ul style="list-style-type: none"> · Check if condition of the connector for geared motor. · Replace the geared motor. · Replace the PC.Board (Power side). 	Press Power (Push) switch to OFF position
427	Mulfunction of door lock switch.	Lid lock switch won't operate even operating position.	<ul style="list-style-type: none"> · Check if condition of the connector for geared motor. · Replace the door lock switch. · Replace the PC.Board (Power side). 	Press Power (Push) switch to OFF position
451	Mulfunction of over loading.	No signal (1min.) from rotary detector in wash process.	<ul style="list-style-type: none"> · Check if condition of the connector for motor and rotary detector. · Replace mechanism motor. · Replace PC.Board (Power side). 	Press Power (Push) switch to OFF position
452	Mulfunction of high voltage.	Measured input voltage (20% higher).	<ul style="list-style-type: none"> · Check input voltage. 	Auto-off
453	Mulfunction of low voltage.	Measured input voltage (35% lower).	<ul style="list-style-type: none"> · Check input voltage. 	Press Power (Push) switch to OFF position.
455	High current in mechanism motor.	Over 4A flows in a circuit of mechanism motor.	<ul style="list-style-type: none"> · Replace PC.Board (Power side). · Short circuit of the mechanism motor. 	Press Power (Push) switch to OFF position.
456	High current in mechanism motor.	Over 4A flows in a circuit of mechanism motor.	<ul style="list-style-type: none"> · Replace PC.Board (Power side). · Short circuit of the mechanism motor. 	Press Power (Push) switch to OFF position.
457	Low magnetic current of mechanism motor.	Detect more pulse than low magnetic current.	<ul style="list-style-type: none"> · Replace the mechanism motor. · Replace the PC.Board (Power side). 	Press Power (Push) switch to OFF position.
459	Malfuction of fan motor	Fun motor won't reach rated rpm.	<ul style="list-style-type: none"> · Check if condition of the fan motor and the PC.Board (Power side). 	Press Power (Push) switch to OFF position
466	Malfuction of heater circuit	Detedt short and open circuit of the heater circuit.	<ul style="list-style-type: none"> · Check if condition of connector and lead wires. · Check if condition of the heater and PC.Board (Power side). · If the heater is short-circuit, it will Auto-off. 	Press Power (Push) switch to OFF position

10 LOCATION

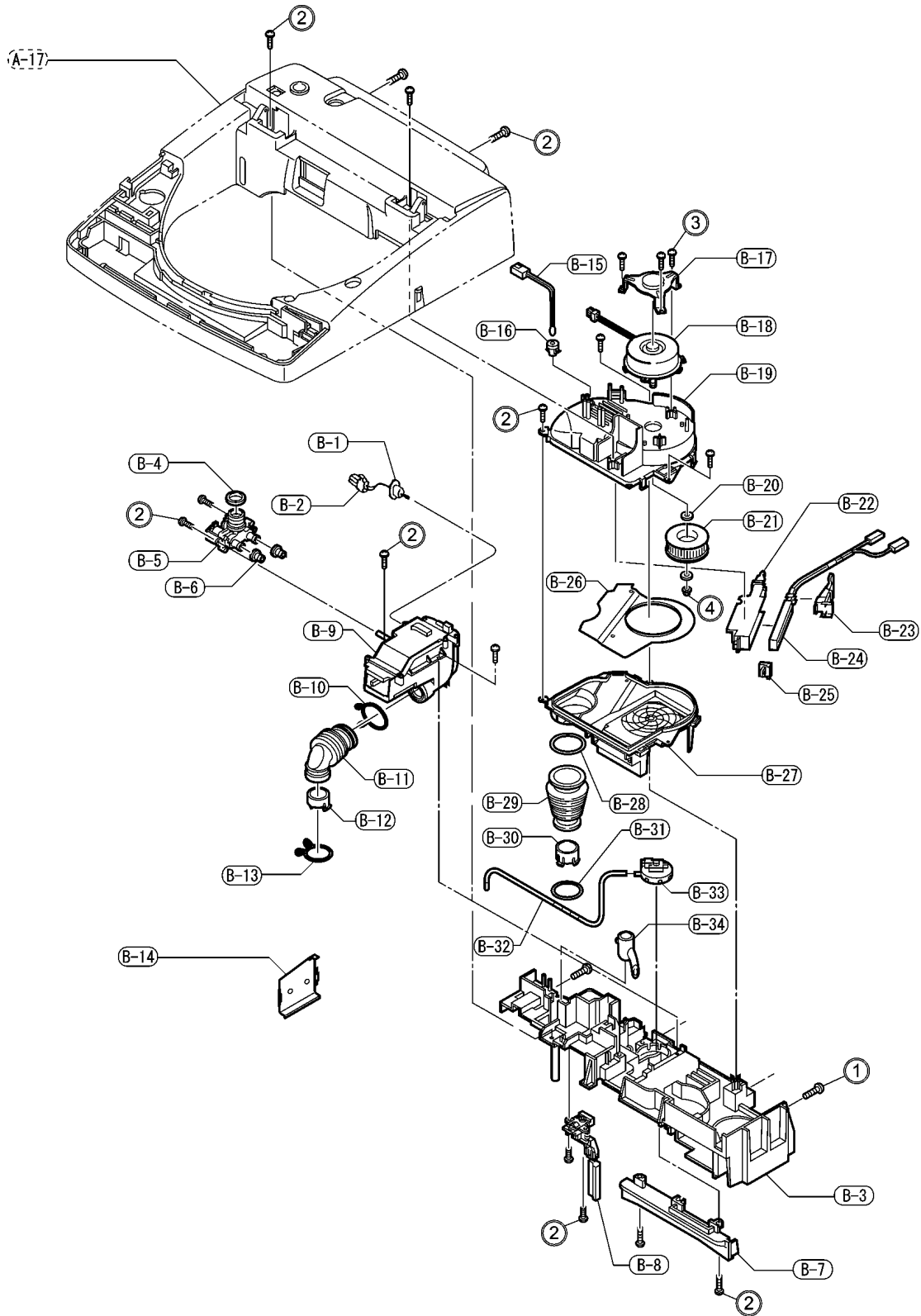
10.1. LOCATION OF PARTS-A



10.2. REPLACEMENT PARTS LIST-A

Ref. No.	Description	Part No.	Q' ty	Remarks
A- 1	Lid	AXW1GN6PD00	1	English
A- 1	Lid	AXW1GN6PD30	1	Thailand
A- 1	Lid	AXW1GN6PD50	1	Cantonese
A- 2	Panel A Packing	AXW137D6MJ0	1	
A- 3	Panel face A	AXW145D6PD00	1	
A- 4	PC Board w/components	AXW24S-6MM0	1	
A- 5	Rinse cap	AXW2192D6JU0	1	
A- 6	Detergent case B	AXW2151D6JU0	1	
A- 7	Inlet filter	AXW2258D6ML0	1	
A- 8	Lid spring	AXW1116-6MJ0	1	
A- 9	Lid hinge shaft	AXW193W5U80	1	
A-10	Caution label	AXW9908Z6PD0	1	English
A-10	Caution label	AXW9908Z6PD3	1	Thailand
A-10	Caution label	AXW9908Z6PD5	1	Cantonese
A-11	Side cover	AXW4600D6MK0	1	
A-12	Cap A	AXW514X6DK0	1	
A-13	Cap C	AXW537D6PD00	1	
A-14	Level meter	AXW353-6DK0	1	
A-15	Switch label	AXW657-6PD00	1	English
A-15	Switch label	AXW657-6PD30	1	Thailand
A-15	Switch label	AXW657-6PD50	1	Cantonese
A-16	Caution label	AXW9907Z6PD0	1	English
A-16	Caution label	AXW9907Z6PD3	1	Thailand
A-16	Caution label	AXW9907Z6PD5	1	Cantonese
A-17	Body B	AXW1BD6MM0	1	
A-18	Caution label	AXW1117Z6PD0	1	English/Cantonese
A-18	Caution label	AXW1117Z6PD3	1	Thailand
A-19	Door lock switch	AXW1619Z0506	1	220-240V
A-20	Panel A sheet	AXW143-6MJ0	1	
A-21	Holder B	AXW2498Z6PD0	1	
1	Screw	XTB4+15BFE	6	

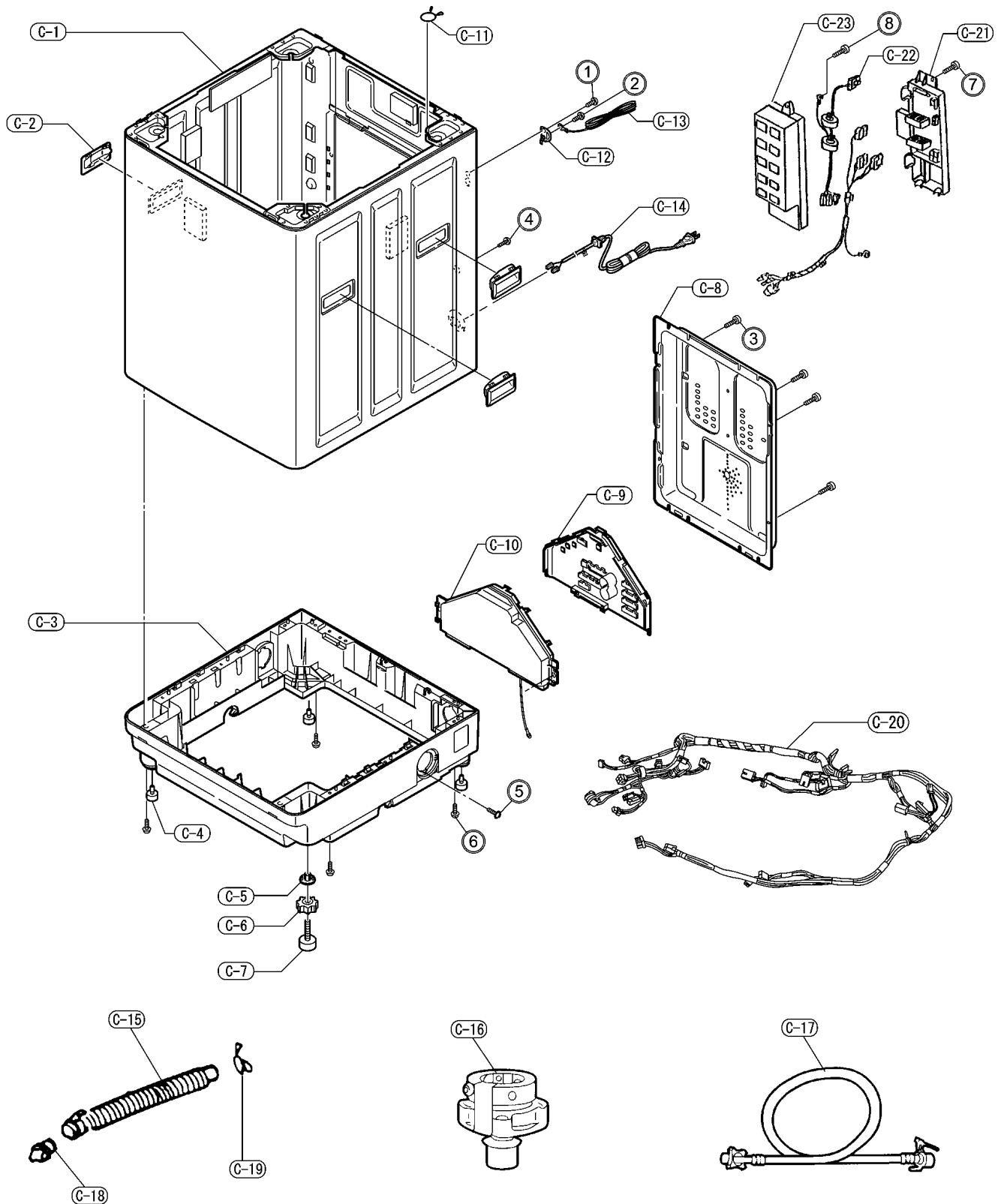
10.3. LOCATION OF PARTS-B



10.4. REPLACEMENT PARTS LIST-B

Ref. No.	Description	Part No.	Q' ty	Remarks
B- 1	Cord seal rubber	AXW2500Z6PD0	1	
B- 2	Thermal detector	AXW24N-01900	1	
B- 3	Holder A	AXW2497-6MJ0	1	
B- 4	Feeding port packing	AXW267-6ML00	1	
B- 5	Filling solenoid (Feed valve)	AXW29A-19606	1	220-240V
B- 6	Detergent case packing	AXW2164-6JU0	2	
B- 7	Cover of holder A	AXW162D6ML0	1	
B- 8	Safety switch	AXW1661-6JU0	1	
B- 9	Detergent case A	AXW2150Z6PD0	1	
B-10	Hose clamp	AXW245-5VP5	1	
B-11	Feed hose A	AXW1250-6MJ0	1	
B-12	Duct B	AXW2298-6MJ0	1	
B-13	Hose clamp	AXW245-6MJ0	1	
B-14	Tub holder	AXW175-6GT0	1	
B-15	Thermal detector	AXW24N-130	1	
B-16	Cord seal rubber	AXW2500-6MJ0	1	
B-17	Motor bracket A	AXW307-6ML0	1	
B-18	Motor	AXW401-6ML0	1	
B-19	Fan case A	AXW851D6ML0	1	
B-20	Fan washer A	AXW857-6ML0	2	
B-21	Fan	AXW855-6ML0	1	
B-22	Heater cover A	AXW1316-6ML0	1	
B-23	Heater plate A	AXW1307-6MJ0	1	
B-24	Heater	AXW131I-6PD00	1	220-240V
B-25	Heater plate B	AXW1308-6MJ0	1	
B-26	Fan case C	AXW872-6ML0	1	
B-27	Fan case B	AXW852D6ML00	1	Inc. hose clamp
B-28	Hose clamp	AXW428-6PF00	1	
B-29	Air supply hose	AXW314-6MJ00	1	Inc. hose clamp (2PCs.)
B-30	Duct A	AXW2297Z6MJ1	1	Inc. hose clamp
B-31	Hose clamp	AXW428-6PF00	1	
B-32	Air hose	AXW239-8340	1	
B-33	Water level detector	AXW24T-280	1	
B-34	Drain pipe	AXW205-6ML0	1	
1	Screw	XTWAXW461	2	
2	Screw	XTB4+15BFE	19	
3	Screw	XTB4+12BFE	2	
4	Nut	XNGAXW620	1	

10.5. LOCATON OF PARTS-C

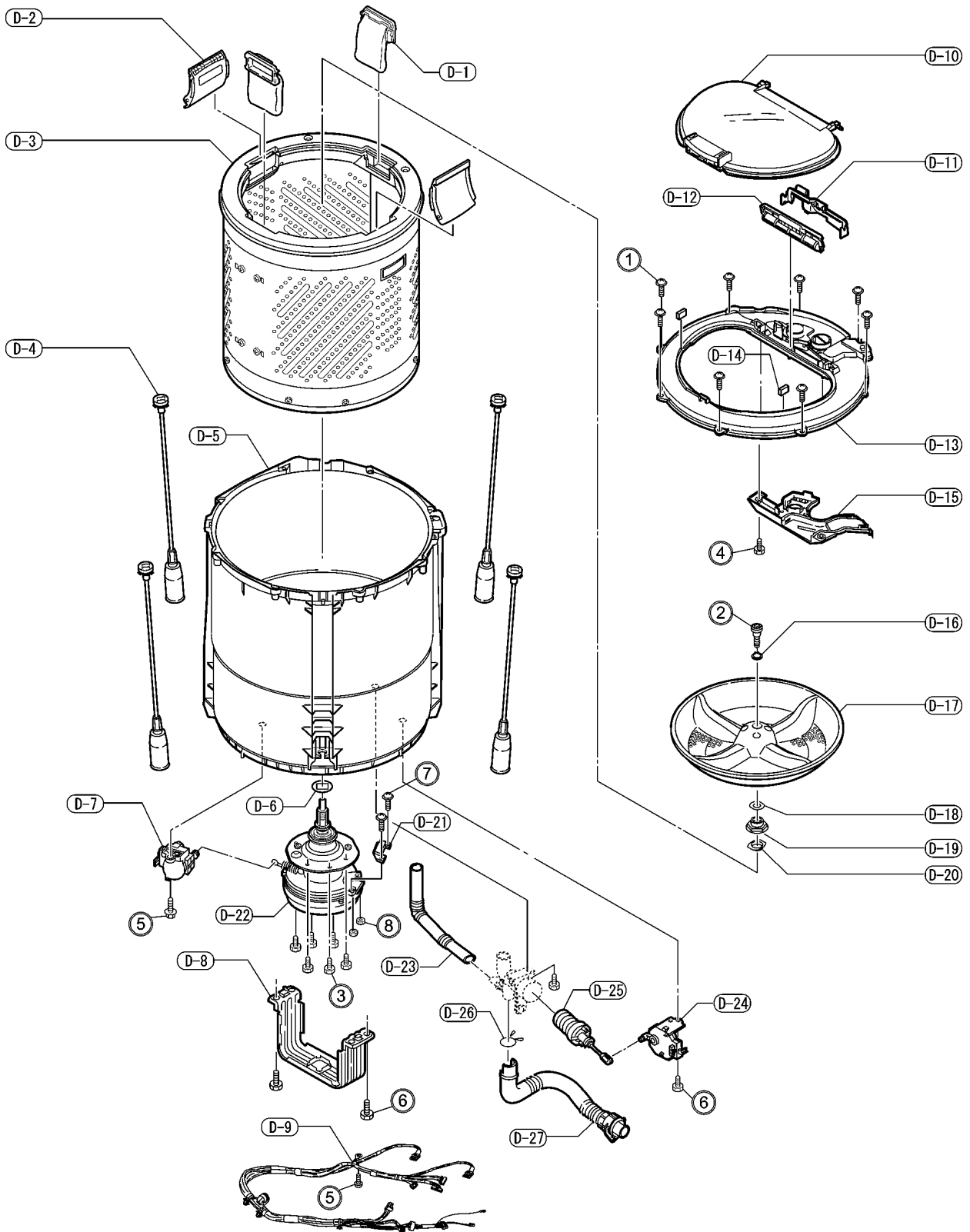


10.6. REPLACEMENT PARTS LIST-C

Ref. No.	Description	Part No.	Q'ty	Remarks
C- 1	Body A	AXW1AD6PD00	1	White
C- 2	Hanger	AXW110D6JU0	3	
C- 3	Base A	AXW301-6JV0	1	
C- 4	Leg covering	AXW339-6JV0	3	
C- 5	Adjustable leg plate	AXW337-56R0	1	
C- 6	Adjustable knob	AXW343-5YW0	1	
C- 7	Adjustable leg	AXW3D-6JV0	1	
C- 8	Back panel	AXW156-6JV0	1	
C- 9	Insulation cover	AXW486-6ML0	1	
C-10	PC Board w/components	AXW24C-6PD06	1	220-240V
C-11	Snap pin	AXW334-5U90	1	
C-12	Earth mounting plate	AXW333-6MJ0	1	For 2 pin cord
C-13	Earth wire	AXW3C-5150	1	For 2 pin cord
C-14	Power cord	-----	1	Obtain locally
C-15	Outlet hose B	AXW2EU5X9Z	1	
C-16	Filling joint A	AXW12H-9025	1	(Feed valve joint A)
C-17	Pressure hose	AXW1251-9065	1	
C-18	Hose pipe	AXW243-5X60	1	
C-19	Hose clamp	AXW245-6AA0	1	
C-20	Lead wire unit	AXW14A-6PD00	1	Upper side
C-21	PC Board w/components	AXW24V-6NB04	1	220-240V, Noise filter
C-22	Coil unit	AXW34L-6PD00	1	For 2 pin plug
C-22	Coil unit	AXW34L-6NB00	1	For 3 pin plug
C-23	Insulation cover	AXW2427Z6PD0	1	

1	Screw	XTN5+12H	1	
2	Screw	XSN5+10BNS	1	
3	Screw	XTWAXW420	4	
4	Screw	XTN4+8H	1	
5	Screw	XTWAXW425	1	
6	Screw	XTWAXW461	4	
7	Screw	XTWAXW462	1	
8	Screw	XSN5+10BNS	1	

10.7. LOCATION OF PARTS-D



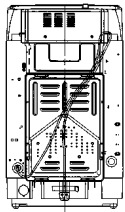
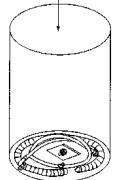
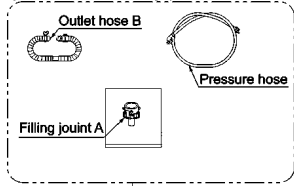
10.8. REPLACEMENT PARTS LIST-D

Ref. No.	Description	Parts No.	Q'ty	Remarks
D-1	Lint filter	AXW22A-6BM0	1	
D-2	Detergent inlet	AXW1198-6EM0	1	
D-3	Tub	AXW2A-6PD00	1	
D-4	Suspension unit	AXW340Z-6MJ0	1	1 set=4 PCs.
D-5	Outer tub	AXW12A-6ML0	1	Inc. D-23
D-6	Spinner flange washer A	AXW15P-6EN0	1	
D-7	Geared motor	AXW3482Z2606	1	220-240V, for clutch
D-8	Spinner plate B	AXW3232-6JU0	1	
D-9	Lead wire unit	AXW14B-6PE00	1	Lower side
D-10	Inner lid	AXW2T-6PD00	1	English
D-10	Inner lid	AXW2T-6PD30	1	Thailand
D-10	Inner lid	AXW2T-6PD50	1	Cantonese
D-11	Filter cover	AXW2208-6ML0	1	
D-12	Exhaust filter	AXW2360-6JV0	1	
D-13	Outer tub cover	AXW3224-6ML0	1	
D-14	Lid stopper A	AXW1141-6EM0	2	
D-15	Feeding port	AXW204-6ML0	1	
D-16	O ring	AXW257-6BM0	1	
D-17	Pulsator	AXW5E-6JV0	1	Inc. D-16
D-18	Shaft bushing	AXW504-6BM0	1	
D-19	Spinner flange nut	AXW1517-5U80	1	
D-20	Spinner shaft washer B	AXW1519-8020	1	
D-21	Rotary detector	AXW26M-6EM0	1	
D-22	Mechanism motor	AXW20M-6MJ0	1	Inc. D-6, 18, 19, 21
D-23	Overflow hose B	AXW234-6JU0	1	
D-24	Geared motor	AXW3482Z2806	1	220-240V, for drain
D-25	Cock complete	AXW9D-6MJ0	1	
D-26	Hose clamp	AXW245-5320	1	
D-27	Service hose A	AXW2DD6JE0	1	

1	Screw	XTWAXW464	8	
2	Screw	XSSAXW678	1	
3	Bolt	XVGAXW812	6	
4	Screw	XTTAXW431	2	
5	Screw	XTN5+12H	2	
6	Screw	XTWAXW6505	3	
7	Screw	4002325	2	
8	Nut	XNG4BBS	2	

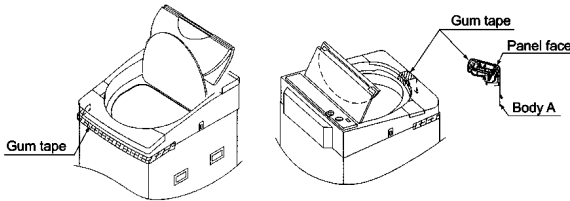
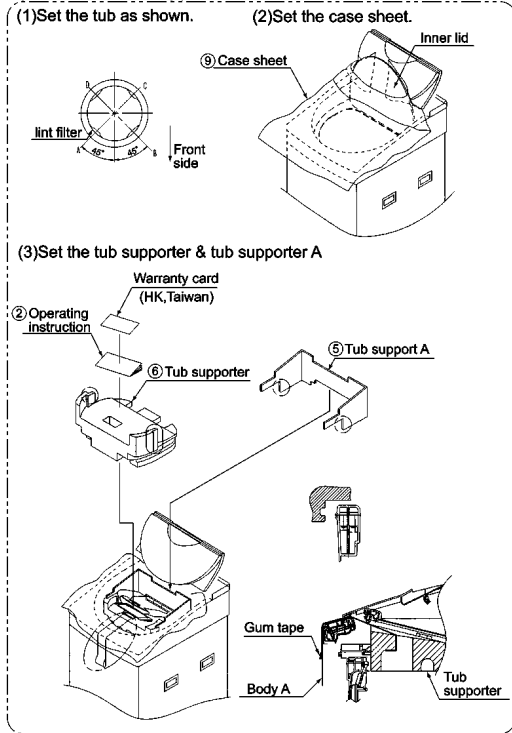
10.9. PACKING PARTS LIST

1) Insert accessory parts to the tub.

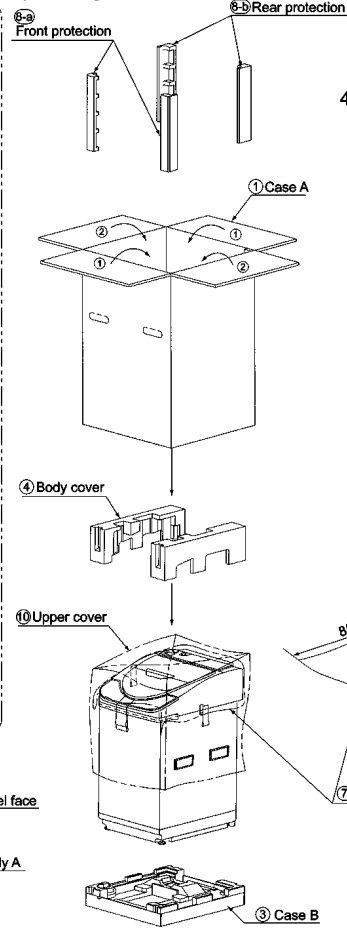


How to set power cord.

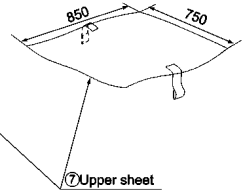
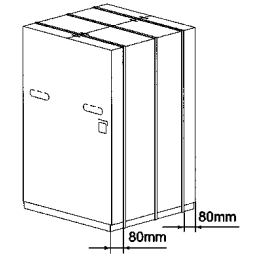
2) Insert the tub support and instructions.



3) Packing



4) Finishing



Ref. No.	Description	Part No.	Q'ty	Remarks
1	Case A	AXW9001N6PD0	1	Standard
1	Case A	AXW9001N6PDA	1	Singapore
1	Case A	AXW9001N6PD3	1	Thailand
2	Operating instructions	AXW9901Z6PD0	1	English/Arabic
2	Operating instructions	AXW9901Z6PD3	1	Thailand
2	Operating instructions	AXW9901Z6PD5	1	English/Cantonese
3	Case B	AXW90B-6PD00	1	
4	Body cover	AXW9004Z6PD0	1	
5	Tub supporter A	AXW9054Z6PD0	1	
6	Tub supporter	AXW9085Z6PD0	1	
7	Upper sheet	AXW9069-6MJ0	1	
8-a	Front cover	AXW9215Z6PD0	2	
8-b	Rear cover	AXW9215Z6PD5	2	
9	Case sheet	AXW9020-6GT0	1	
10	Upper body cover	AXW9060Z6PL0	1	