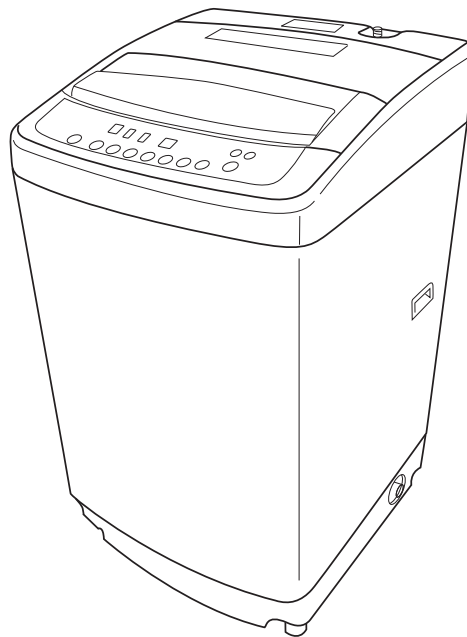


Service Manual

Fully Automatic Washing Machine



NA-F78B2
NA-F80B2
NA-F80H2
NA-F90B2
NA-F90H2
NA-F1002B

Product Colour

Silver (A)
White (D)
Grey (J)

Destination

Thailand, Indonesia, Vietnam, Malaysia, India
Singapore (Local), Singapore (Export)
Philippines, UAE (Local), Kuwait
Qatar, Oman, Bahrain, Lebanon
UAE (PGF), Libya

⚠ WARNING

The 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 within 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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1. ATTENTION IN THE REPAIR WORK SECURITY

In order to prevent any accident during repair work and ensure security of the product after repair work, somethings surely followed are explained below.








- The level of the arised damages or dangers, when indicated contents are ignored, are classified by following indications and explained.

	WARNING	The content in the column of this indication is “ Be assumed that possibly die or get seriously injured ”.
	ATTENTION	The content in the column of this indication is “ Be assumed that possibly get damages or possibly only damage object occurred ”.



- Types of the contents being followed are classified by following figured symbols and explained. (The following is an example of expression in pictures)

	This figured symbol means caution “ ATTENTION ”
	This figured symbol means must not do “ PROHIBITION ”
	This figured symbol means surely execute “ INSTRUCTIONS ”

 **WARNING**

<p>Connection of cables should be done according to regular work.</p> <ul style="list-style-type: none"> • Connection of cables should be tightened reliably with strength using solderless terminal. (specified parts always using regular bonding plier) • Install a fire protection cover (fireproof) covering connectin area completely, and close opening areas by tape. (Please reuse the fire protection cover which came with the products). • When drawing cables around, fixing those cables with cable suppression part. Do not touch rotating part, high temperature part and surface of metal. • Be sure to replace with cable unit when any cable was snapped. When a part of the cable unit was cut, you must not do the connection repair. It may be the cause of smoke, ignition or receiving an electric shock. 	
<p> Be careful about receiving an electric shock.</p> <p>When doing electric connection service such as voltage measurement, please be careful enough about receiving an electric shock at electric charging parts and cable terminal parts.</p>	<p> Pull out electric plug when doing repair work.</p> <p>Disassembling, assembling and replacing parts should be done after pulling out electric plug. Receiving an electric shock or getting an injury may occur.</p>
<p> Be sure to use specified parts.</p> <p>Always use specified parts for the parts with mark  in the electric circuit diagrams and parts list. It may be the cause of smoke, ignition or damage.</p>	<p> Do not touch any rotating object with hand unless it stops completely.</p> <p>Slow rotation may also roll in your hands and cause injury.</p>
<p> Rebuilding is prohibited.</p> <p>Do not rebuild machine parts and components when repairing service. It may be the cause of damage or ignition.</p>	<p> Straightly pull out or insert in huasuton terminal.</p> <p>Do not twist it. It may be the cause of damage or ignition.</p>

 **ATTENTION**

<p> Please wear gloves when disassembling, replacing and assembling.</p> <p>Always wear gloves to prevent an injury by the metal end face or an electric shock at the time of the electricity service</p>
<p> Please be careful to the edges of the metal end face.</p> <p>Wear the working clothes of long sleeves to prevent an injury by the metal end face or please work after covering the end face with tape or towel.</p>

2. SPECIFICATIONS

Model		NA-F78B2	NA-F80B2	NA-F80H2	NA-F1002B	NA-F90B2	NA-F90H2
Rate voltage and Frequency	220V/50Hz	Vietnam	Thailand, Vietnam, Sin-RBD, UAE-PGF, Libya	Vietnam	Indonesia	Thailand, Vietnam, Sin-RBD	Thailand, Vietnam, Sin-RBD, UAE-PGF, Libya
	230V/50Hz		Sin-DBD, India	Sin-DBD		Sin-DBD	India
	230V/60Hz		Philippines				Philippines
	240V/50Hz		Malaysia, UAE (AFP), Kuwait, Oman, Qatar, Bahrain, Lebanon			Malaysia	Malaysia, UAE (AFP), Kuwait, Qatar, Oman, Bahrain, Lebanon
Colour		Grey	Grey	Silver	Grey	Grey	Silver
Rate Power	220V/50Hz	470W/260W				450W/230W	
Consumption (Wash / Spin)	230V/50Hz	490W/300W				470W/260W	
	230V/60Hz	510W/330W				510W/330W	
	240V/50Hz	490W/300W				470W/260W	
Power Consumption (NA-F80 / F90)	220V/50Hz	150 Wh				140 Wh	
	230V/50Hz	170 Wh				150 Wh	
	230V/60Hz	170 Wh				160 Wh	
	240V/50Hz	170 Wh				150 Wh	
Standard Water Consumption		150 Liter				154 Liter	
Standard Capacity	Wash	8.0 Kg				9.0 Kg	
	Spin	8.0 Kg				9.0 Kg	
Pulsator with rated load (r.p.m.)		110 r / min					
Spin Tub with rated load (r.p.m.)		740 r / min					
Outer Dimension	Body	554 mm. x 598 mm. x 998 mm.					
	Installation	597 mm. x 619.5 mm. x 1031 mm.					
Product Weight	Accessories	41 Kg					
	Packing	45 Kg					
Water Supply Pressure		0.03 to 1 MPa (0.3 to 10 Kgf / cm ²) / 8 ~ 25 liter / min.					
Motor		Thermal Protector					
Motor Power		Input : 320 Watts / Output : 180 Watts					
Safety Switch		Checking Unbalance / Tub Lid					
Alarm		Rings when finishing washing or unusual					
Fabric Softener Dispenser		Have					
Filter		Have					
Automatic Power - Cut Switch		Have					
Bleach Dispenser		Have					

Standard Water Consumption

Model : NA-F78B2 / NA-F80B2 / NA-F80H2 / NA-F1002B

Wash Level	Water Only	Clothes Weight	
High	77 Liters	8.0 Kgs	69 Liters
<High Lower>	72 Liters	6.0 Kgs	65 Liters
Medium	65 Liters	5.0 Kgs	60 Liters
<Medium Lower>	61 Liters	4.2 Kgs	56 Liters
Low 1	55 Liters	3.5 Kgs	52 Liters
<Lower 1 Lower>	51 Liters	2.5 Kgs	48 Liters
Low 2	45 Liters	1.5 Kgs	43 Liters
<Lower 2 Lower>	41 Liters	1.1 Kgs	38 Liters
Low 3	35 Liters	0.8 Kgs	33 Liters
<Lower 3 Lower>	18 Liters	0.3 Kgs	18 Liters

Standard Water Consumption

Model : NA-F90B2 / NA-F90H2

Wash Level	Water Only	Clothes Weight	
High	77 Liters	9.0 Kgs	71 Liters
<High Lower>	72 Liters	6.0 Kgs	65 Liters
Medium	65 Liters	5.0 Kgs	60 Liters
<Medium Lower>	61 Liters	4.2 Kgs	56 Liters
Low 1	55 Liters	3.5 Kgs	52 Liters
<Lower 1 Lower>	51 Liters	2.5 Kgs	48 Liters
Low 2	45 Liters	1.5 Kgs	43 Liters
<Lower 2 Lower>	41 Liters	1.1 Kgs	38 Liters
Low 3	35 Liters	0.8 Kgs	33 Liters
<Lower 3 Lower>	18 Liters	0.3 Kgs	18 Liters

3. FEATURES AND TECHNICAL INFORMATION

Program	Time
Normal	Approx. 47 - 56 min
Mini	Approx. 20 min
Soak	Approx. 107 min
High Speedy	Approx. 21 - 27 min
Blanket	Approx. 55 min
Delicate	Approx. 29 - 32 min
Tub Hygiene	Approx. 150 min
Soak 1 hour	Approx. 107 min
Soak 8 hour	Approx. 527 min

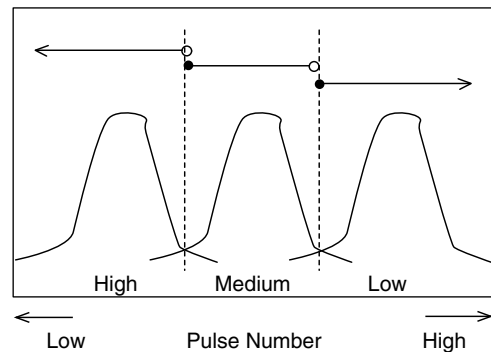
Product special features

- Dial indicating detergent level after sensing wash level
- Pre-set timer
- Fabric softener dispenser
- Detergent dispenser
- Automatic power-off when finish
- Dial indicating unusual sign (LED will blink)
- Alarm ON-OFF
- Overflow sensing device
- Ag Shower (NA-F80H1 / NA-F90H1 only)
 - This has the disinfection effect with Ag+
 - This can be used for the course marked with ★

Weight Sensor

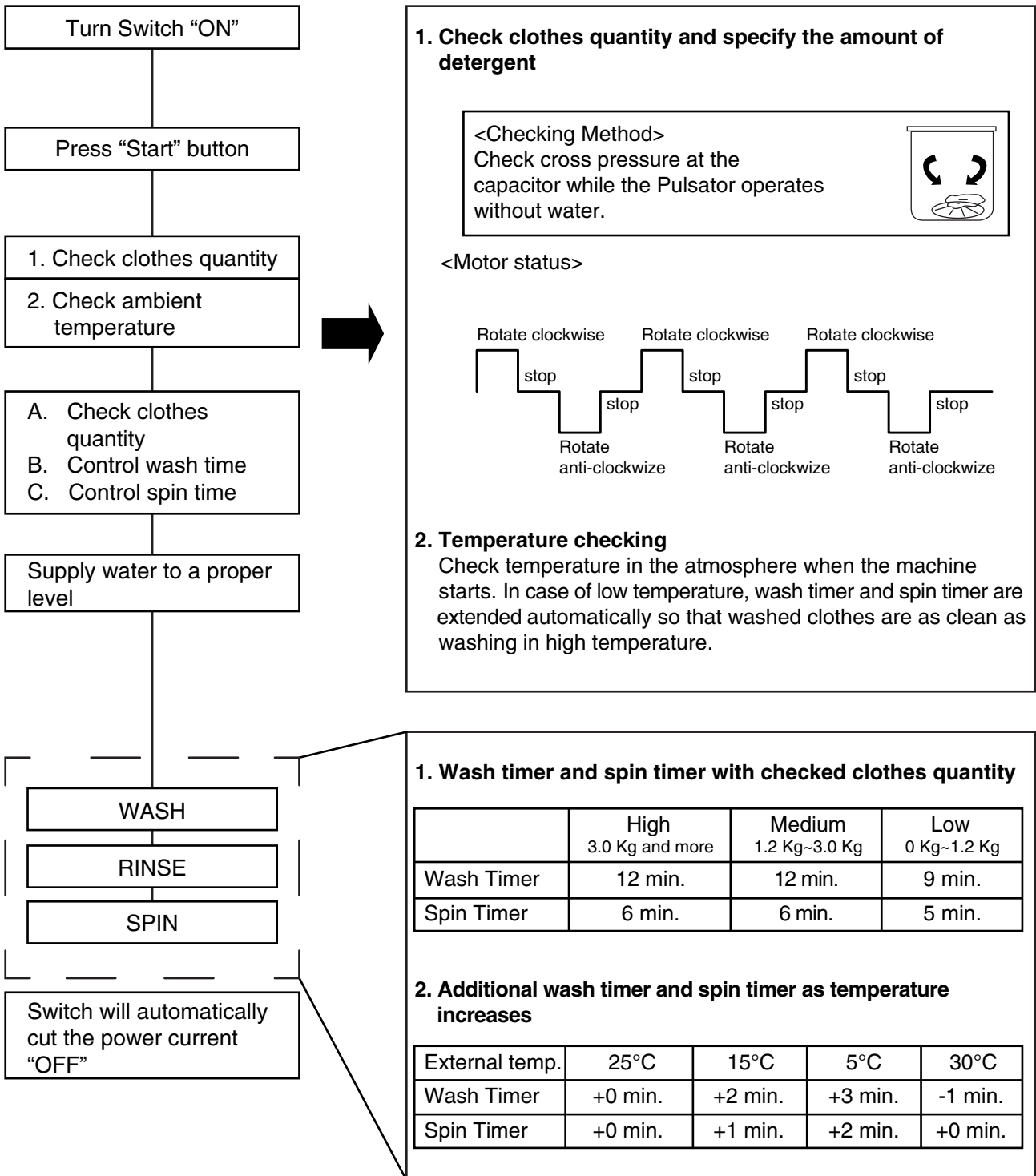
The weight is sensed by the moving force of the Pulsator, which changes a capacitor pole and releases a signal wave. The wave is changed into a pulse number from which the clothes weight is sensed. Prior to weight sensing for Normal and Strong program, the machine runs without water by spinning the Pulsator to left and right for 4.2 seconds (ON 0.3 second- OFF 0.4 second).

The motor stops (OFF), a water system counts the pulse number, then calculates the accumulated pulse numbers for drawing water into the tub over a defined level. The dial will indicate High wash level.



3.1 Function Control with Fuzzy sensor

Clothes quantity checking, wash level indication and detergent consumption indication with Fuzzy Logic System.



3.2 Power input and current

This clause of SA60335-2-4 and SA60335-2-7 is applicable except as follows.

(1) Washing

Power source			NA-F90H2		NA-F80H2	
			Water load	Rated load	Water load	Rated load
220V	50Hz	Current (A)	1.6 - 2.4	1.8 - 2.6	1.6 - 2.4	1.8 - 2.8
		Power consumption (W)	306 - 374	405 - 495	324 - 396	423 - 517
220 - 240V	50Hz	Current (A)	1.6 - 2.4	1.8 - 2.6	1.6 - 2.4	1.8 - 2.8
		Power consumption (W)	342 - 418	423 - 517	360 - 440	441 - 539
230V	60Hz	Current (A)	2.1 - 2.9	2.2 - 3.0	2.1 - 2.9	2.2 - 3.0
		Power consumption (W)	387 - 473	459 - 561	414 - 506	486 - 594

Note: To determine the value, integrate the data for 2min after 5min from starting motor and convert based on duty ratio of water flow for that period.

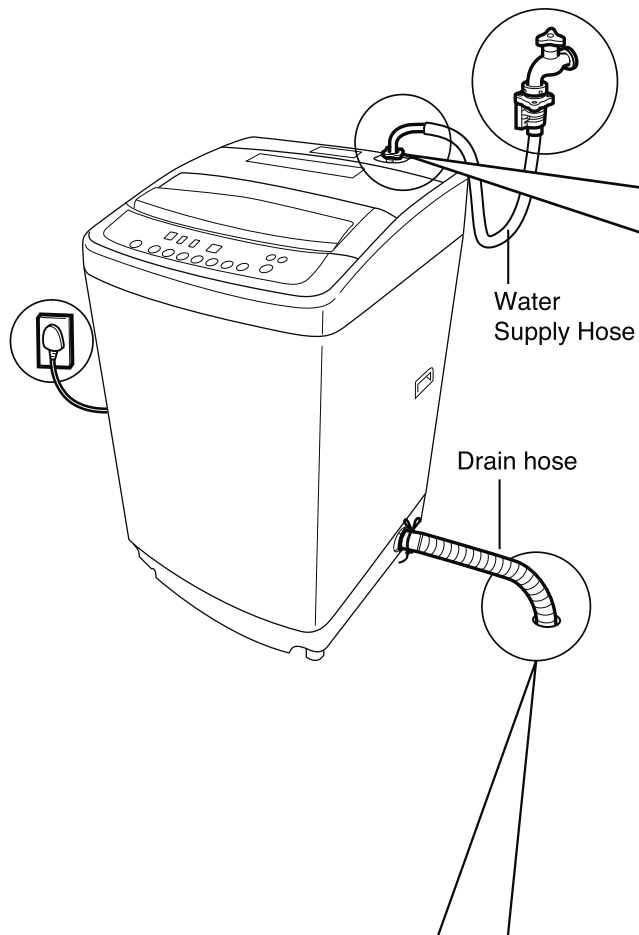
(2) Spinning

Power source			NA-F90H2		NA-F80H2	
			Water load	Rated load	Water load	Rated load
220V	50Hz	Current (A)	0.7 - 1.3	0.8 - 1.4	0.7 - 1.3	0.9 - 1.5
		Power consumption (W)	193 - 237	207 - 253	216 - 264	234 - 286
220 - 240V	50Hz	Current (A)	0.7 - 1.3	0.8 - 1.4	0.9 - 1.5	0.9 - 1.5
		Power consumption (W)	221 - 269	234 - 286	252 - 308	270 - 330
230V	60Hz	Current (A)	1.1 - 1.9	1.2 - 2.0	1.1 - 1.9	1.2 - 2.0
		Power consumption (W)	270 - 330	297 - 363	279 - 341	297 - 363

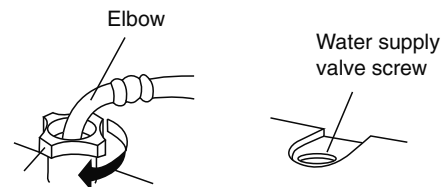
Note: To determine the value, integrate the data for 2.5min after 3.5min from starting motor and convert based on duty ratio of water flow for that period.

4. INSTALLATION

4.1 Checking of placement



Connect the water supply hose to the water supply valve screw.



1. Push the water supply hose nut straight onto the water supply valve screw.
2. Hold the elbow by lifting it up, screw the nut onto the water supply valve screw, and firmly tighten the nut.
3. After the nut is tightened, check whether or not the elbow is unsteady or loose.
4. After tightening, open the faucet to confirm that there is no water leakage.

[Cautions]

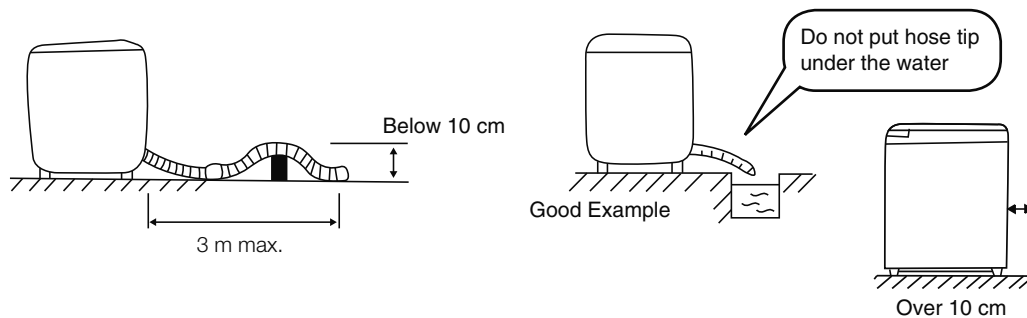
Firmly tighten the nut, otherwise water leakage will result.

Water Pressure Rating :

$2.9 \times 10^4 \sim 9.8 \times 10^5 \text{ Pa}$

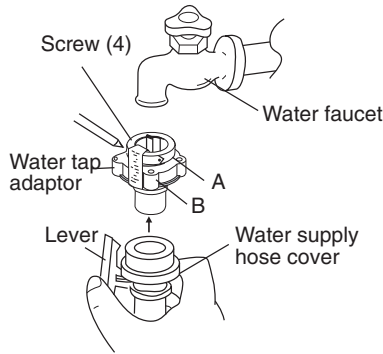
Hose extension

If extended external part is necessary when connecting the drain hose, the length of the drain hose should be less than 3 m and the height should be below 10 cm.



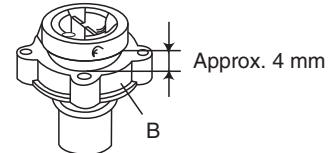
Install the machine 10 cm or more away from the wall.

4.2 Connect the water supply hose



[Note]

- Firmly tighten part B of the water tap adaptor, otherwise water leakage will result.
- When the hose must be reinstalled (after you remove, for example), turn B to the left until about 4 mm of the thread becomes visible, then carry out the procedure described above.

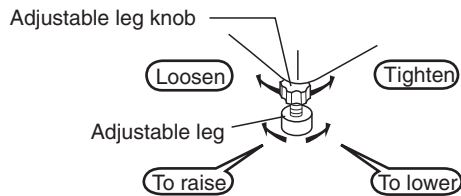


- If a water tap adaptor is already connected, replace with the attached new one.

4.3 Install Washing Machine to steady

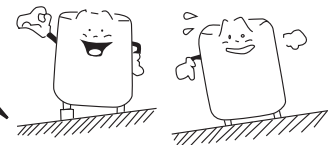
Adjust Height of leg

1. Turn the adjustable leg knob towards (Loosen) direction to loose it.
2. Turn the adjustable leg to adjust the levelness.
 - 2.1 When increasing height, turn adjustable leg towards (Loosen) direction.
 - 2.2 When decreasing height, turn adjustable leg towards (Tighten) direction.
3. Turn the adjustable leg knob towards (Tighten) direction to tighten it.



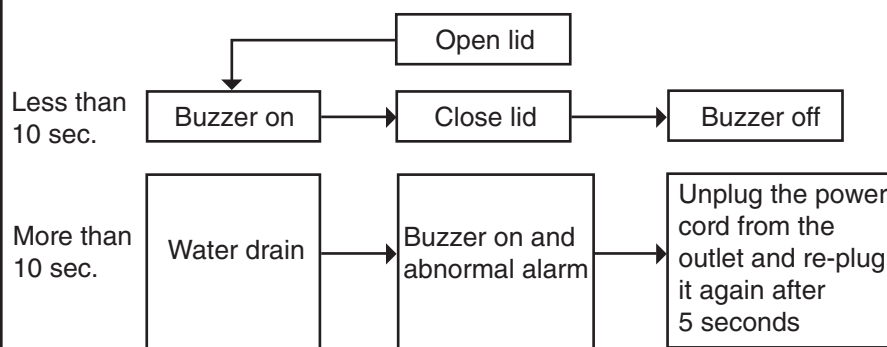
If the floor is largely inclined

Use board or a like for prop up under leg of washing machine



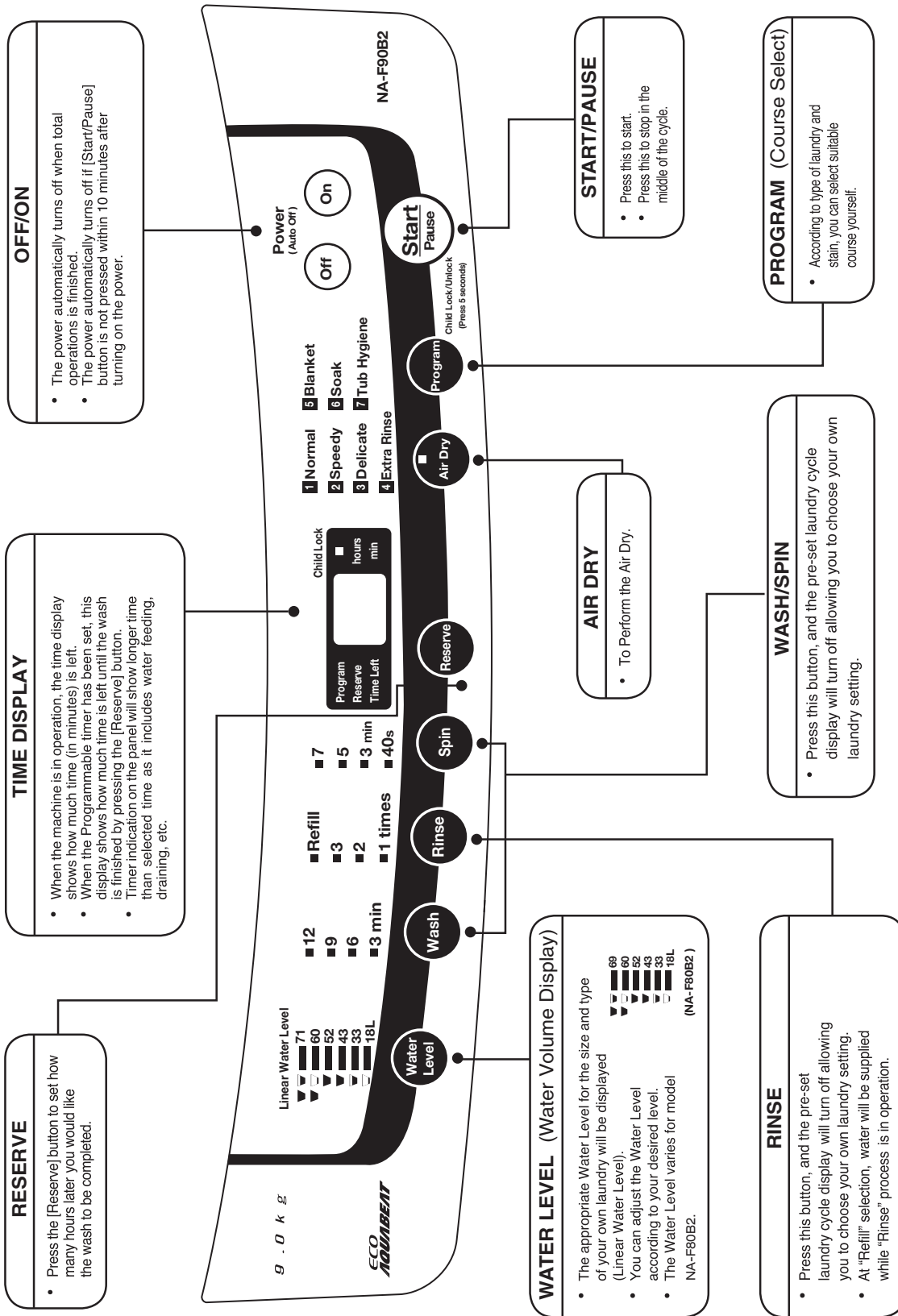
4.4 Child Lock program

Press the [POWER OFF/ON] button for at least 5 seconds. The buzzer sounds (two time for setting) and the [CHILD LOCK] indication turns on.



5. OPERATIONS PANEL

5.1 NA-F78B2 / NA-F80B2 / NA-F90B2 / NA-F1002B



Caution: If you need to change the [Program] settings after the cycle has already started, turn the power off and on it back.

5.2 NA-F80H2 / NA-F90H2

WATER LEVEL (Water Volume Display)

- The appropriate Water Level for the size and type of your own laundry will be displayed (Linear Water Level).
- You can adjust the Water Level according to your desired level.
- The Water Level varies for model NA-F80H2.

TIME DISPLAY

- When the machine is in operation, the time display shows how much time (in minutes) is left.
- When the Programmable timer has been set, this display shows how much time is left until the wash is finished by pressing the [Reserve] button.
- Timer indication on the panel will show longer time than selected time as it includes water feeding, draining, etc.

OFF/ON

- The power automatically turns off when total operations is finished.
- The power automatically turns off if [Start/Pause] button is not pressed within 10 minutes after turning on the power.

WASH, SPIN

- Press this button, and the pre-set laundry cycle display will turn off allowing you to choose your own laundry setting.

RINSE

- Press this button, and the pre-set laundry cycle display will turn off allowing you to choose your own laundry setting.
- At "Refill" selection, water will be supplied while "Rinse" process is in operation.

RESERVE

- Press the [Reserve] button to set how many hours later you would like the wash to be completed.

AIR DRY

- To Perform the Air Dry.

PROGRAM (Course Select)

- According to type of laundry and stain, you can select suitable course yourself.

START/PAUSE

- Press this to start.
- Press this to stop in the middle of the cycle.

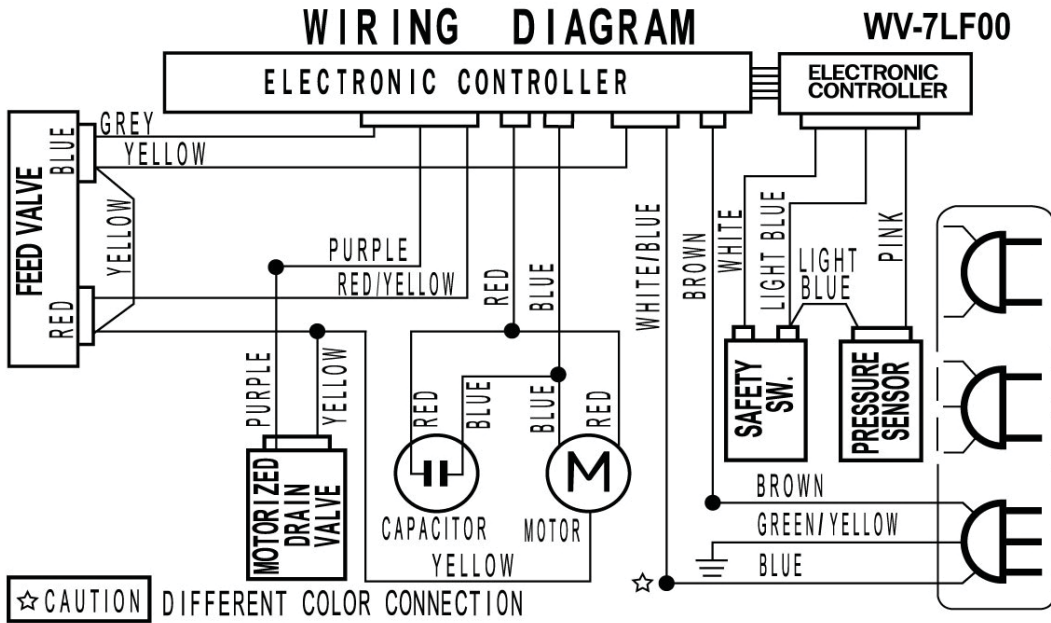
AG CRYSTAL SHOWER

- Choose when you want to coat of the clothing with Ag+ ion.
- Lamp lighting of the upper left corner of the button is telling that you have chosen this function.
- This button cannot be operated after the cycle has already started.
- This function can be used for the course of "Normal", "Blanket", "Delicate", "Extra Rinse" and "Soak".

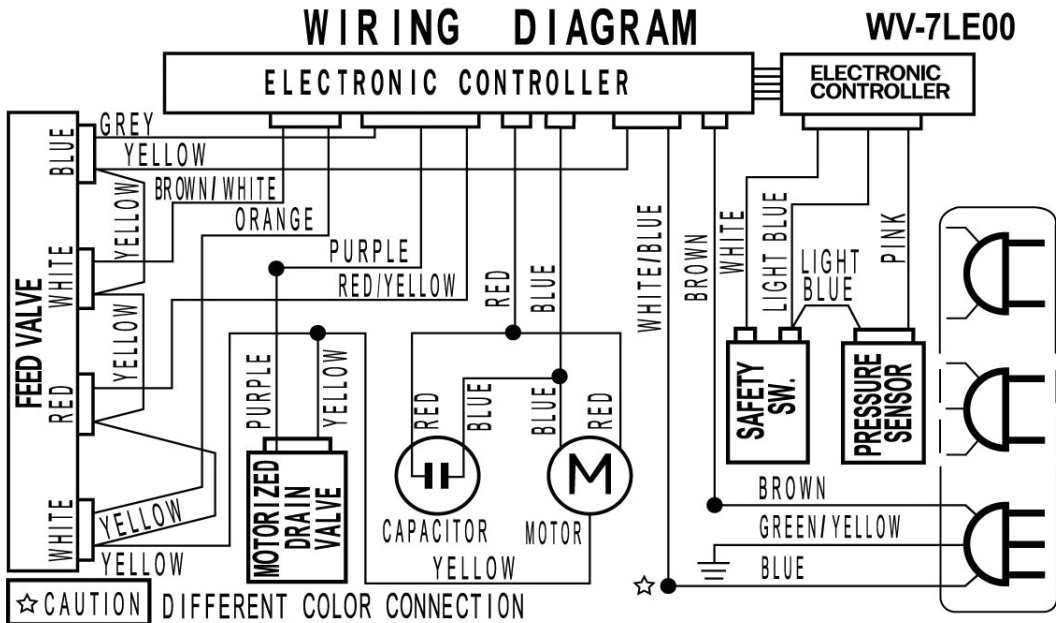
Caution: If you need to change the [Program] settings after the cycle has already started, turn the power off and on it back.

6. WIRING DIAGRAM

6.1 NA-F78B2 / NA-F80B2 / NA-F90B2 / NA-F1002B



6.2 NA-F80H2 / NA-F90H2



7. TABLE OF ERRORS

■ Error Indication

If the following indications appear on the display panel (buzzer sounds, U and H Characters appear).

U11	<ul style="list-style-type: none"> • Check if abnormalities listed below are seen in the external water hose. • Is the hose connected? • Is it clogged with lint? • Is it crushed? • Is the tip soaked in water? • Is a part of hose at a height of over 10 cm midway? • Is the extension hose longer than 3 m? • Is the hose being used too small? 	Restart with opening and closing the lid.
U12	<ul style="list-style-type: none"> • Check if the lid is opened. • Close the lid. 	
U13	<ul style="list-style-type: none"> • Is the washing machine is an unsteady position, or is it on an inclined floor surface? • Is the laundry unevenly distributed in the tub? • Arrange the laundry evenly in the tub, then close the lid. 	
U14	<ul style="list-style-type: none"> • Check if you have forgotten to connect the water hose and to turn on the faucet. • Is the water supply cut off? 	Restart with opening and closing the lid.
U99	<ul style="list-style-type: none"> • Check if lid is open when draining operation of the [CHILD LOCK] program is ON. 	
H01	<ul style="list-style-type: none"> • In case of H displays such as "H01", with no buzzer sounds pull out the power plug, and contact your dealer for service. 	

8. TROUBLESHOOTING

8.1 Table of Troubleshooting

Problem (have to check)	Corresponding device	Control panel	Water Inlet Valve	Water level sensor	Safety switch	Gear motor	Capacitor	Mechanism case	Holding spring	Packing valve	Others
Machine does not work	No light at the dial	0									
	Dial light is on	0	0								
Unusual amount of water inside machine	No sound of water from inlet valve	0	0								
	There is sound of water from inlet valve										Check water supply
	Not enough water flow										Check water supply
	Water never stops flowing in	0	0	0							
Washing system does not work	Pulsator does not spin (no sound of motor)	0									Motor
	Pulsator does not spin (there is sound of motor)						0	0			Belt, Motor
	Pulsator spins only one way	0						0			Pulley, Motor
	Pulsator spins slowly	0									Belt, Motor
Unusual draining	No draining	0									
	Drains slowly	0				0				0	
Unusual spinning system	No spinning (no sound of motor)									0	
	No spinning (Pulsator spins)	0			0						
	No force in spinning (tub spins slowly)							0			
Unusual loud noise	Loud noise during washing										Belt, Motor
	Loud noise during dry spinning							0			Check installation
Water leak	Water leaks from drain pipe							0	0		Something clogged
	Water leaks at the bottom of machine										Drain pipe A, Pulsator
Incorrect working	Water is supplied during spinning										Unbalanced tub, leaning
	Rinses more than 3 times				0				0		Unbalanced tub, leaning
	Pulsator spins despite no water				0						Air pipe clogged
	Cannot change function program	0	0								Description of usage
	Water does not flow out of a filter										Description of usage
	No overflow during water filling as rinsing										Description of usage
	Selected washing program cannot be memorized										Description of usage
	Fabric softener flows away too fast										Description of usage
	Pulsator spins in short range as washing and rinsing										Description of usage
	Works at low wash level then supplies water again										Description of usage

8.2 The following symptoms are not trouble.

Symptoms	Causes
Machine begins filling water in the middle of the wash.	<ul style="list-style-type: none"> When the laundry amount is large at the HIGH water level, the machine sometimes fills automatically. When level goes down, the machine fills automatically.
The water level is too high for the amount of laundry being washed.	<ul style="list-style-type: none"> When the laundry is already soaked with water before the wash is started, or if there is water in the tub before the wash is started, the water level will sometimes be higher.
The water level is too low for the amount of laundry being washed.	<ul style="list-style-type: none"> With light laundry made of synthetic or blended fabric, the water level will sometimes be lower.
Midway during spinning, the operation suddenly changes to rinsing.	<ul style="list-style-type: none"> When the laundry is unbalanced during spin, rinsing and automatic correction of unbalanced laundry will begin. Later spinning will return to normal condition.
Water does not flow through the lint filter. Double Cascade does not operate.	<ul style="list-style-type: none"> When the water level is set to very low, water sometimes will not flow through the lint filter. Double Cascade does not operate when these settings have been selected.
The water is drained even filled by a bucket.	<ul style="list-style-type: none"> Do not leave more than 15 seconds while powered on. Fill the water while powered off or after pushing the start button.
Softener spills out from softener drawer.	<ul style="list-style-type: none"> Keep the level of the softener indicated to prevent the softener from flowing immediately. If you close the softener drawer forcefully, softener may spill out of the drawer.
During draining, the laundry and the spinner rotates with irregular movements.	<ul style="list-style-type: none"> To suppress soap suds build-up, the washing tub turns slowly and quickly.
The buttons do not work.	<ul style="list-style-type: none"> Only the [WATER LEVEL] button is available after the machine begins washing. To change the setting, press the [Power Off] button and reconfigure the setting.
If you start with the rinse cycle, the tub is not filled with water.	<ul style="list-style-type: none"> When there is water in the tub, the operation starts with the draining. After spin cycle is finished, the tub will be filled with water.
Washing machine does not run at all.	<ul style="list-style-type: none"> Check if there is power failure. Check if the power fuse has blown out or the breaker is actuated. Check if the power plug is plugged in thoroughly. Check if the "power switch" has been pressed. Has the water faucet been turned on? Check if the [START/PAUSE] button has been pressed. Has the machine been programmed under [RESERVE] timer?

Symptoms

Causes

Water is not supplied.



- Check if the water faucet is turned on.
- Is the water supply cut off?
- Check if the connection of the water supply hose is clogged with dirt.
- Check if the lid is opened. Close the lid.

Washing operation still continue even though the expected finishing time had passed on Reserve Program.



- Washing time will be longer because of laundry unbalance, water feeding and draining condition.

Buzzer sounds followed by a draining when opening the lid during wash and rinse.



- In the case when open the lid after setting the [CHILD LOCK] mode, it will force the draining process. Pull out power plug from the outlet and replug it after 5 seconds.

Buzzer sounds when opening the lid during cascade rinsing or spinning.



- This is a remainder for a user not to put a hand and / or any object into the tub. It is not out of order.
※ To turn off the buzzer, close the lid.

Tub shaking with the sound of water.



- This is the sound of the liquid to maintain the balance during spinning.

Water supply failure.



- Normally after the water supply failure, the water will become muddy. Detach the water feeding hose and turn on the water faucet to release to due muddy water. Fix water hose and start washing.

Power failure.



- In this case, [Power On] and [Start/Pause] buttons need to be pressed again after electricity is restored. Then the machine will resume operation automatically from beginning of the stopped process.

9. DISASSEMBLY INSTRUCTION

9.1 Remove Screws of Back Panel out



Fig. 1

- Take out by use screwdriver.

9.2 Remove Back Panel out



Fig. 2



Fig. 3

- Insert fingers through inside of Back Panel (Fig. 2).
 - Pull it back a little for Hooks at upside loose (Fig. 3).



Fig. 4

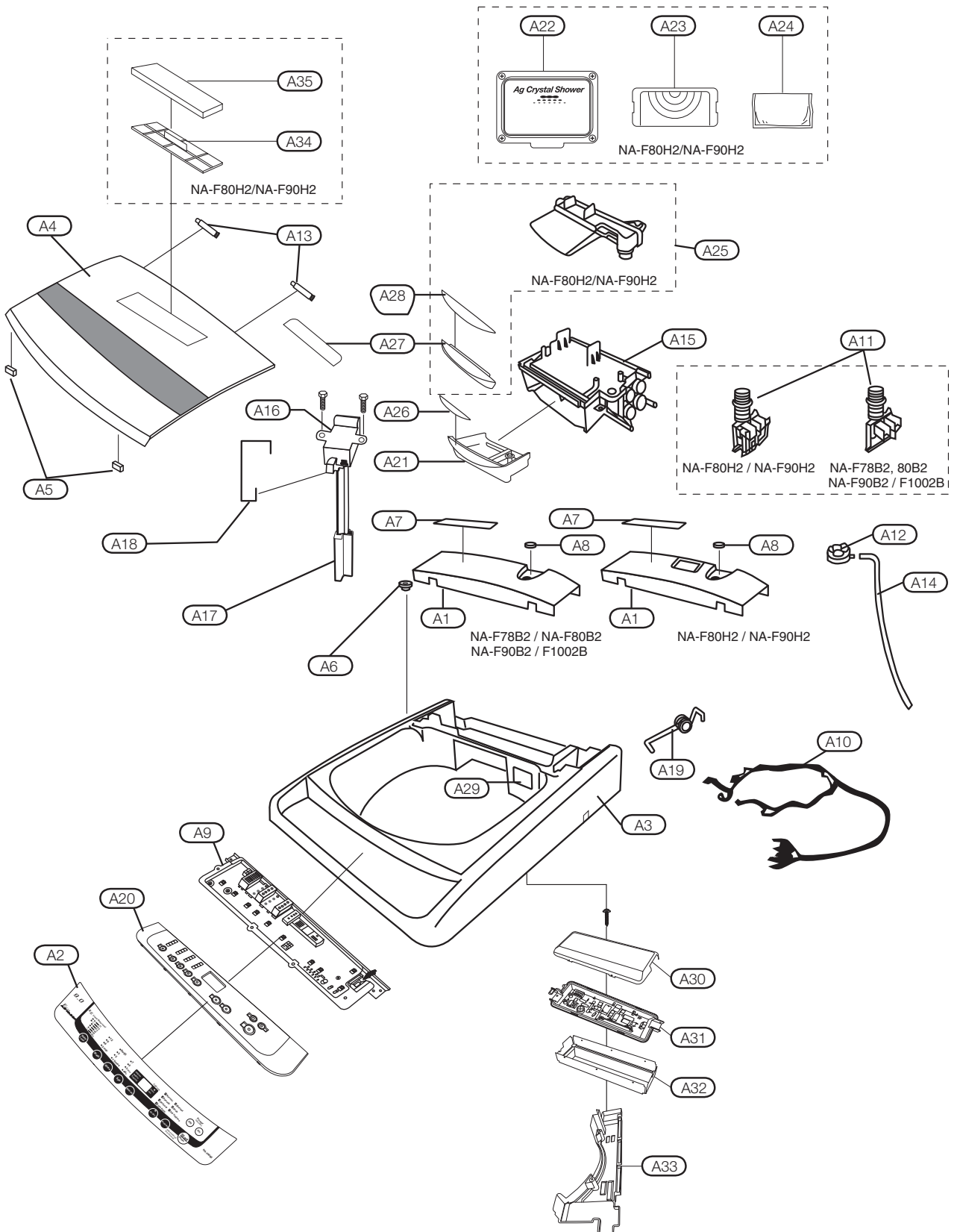


Fig. 5

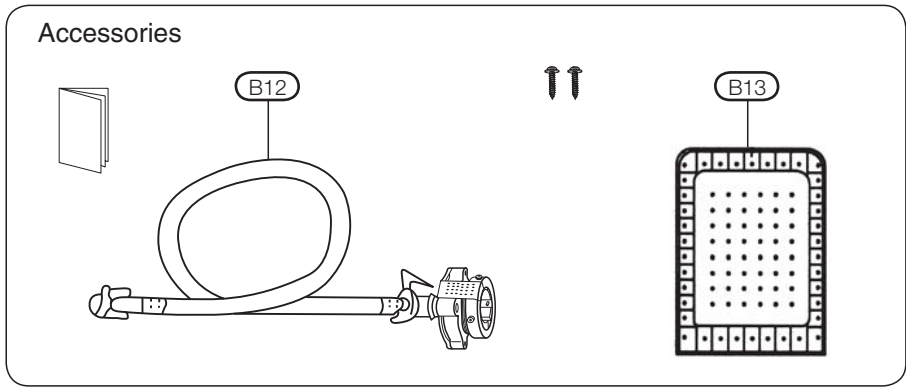
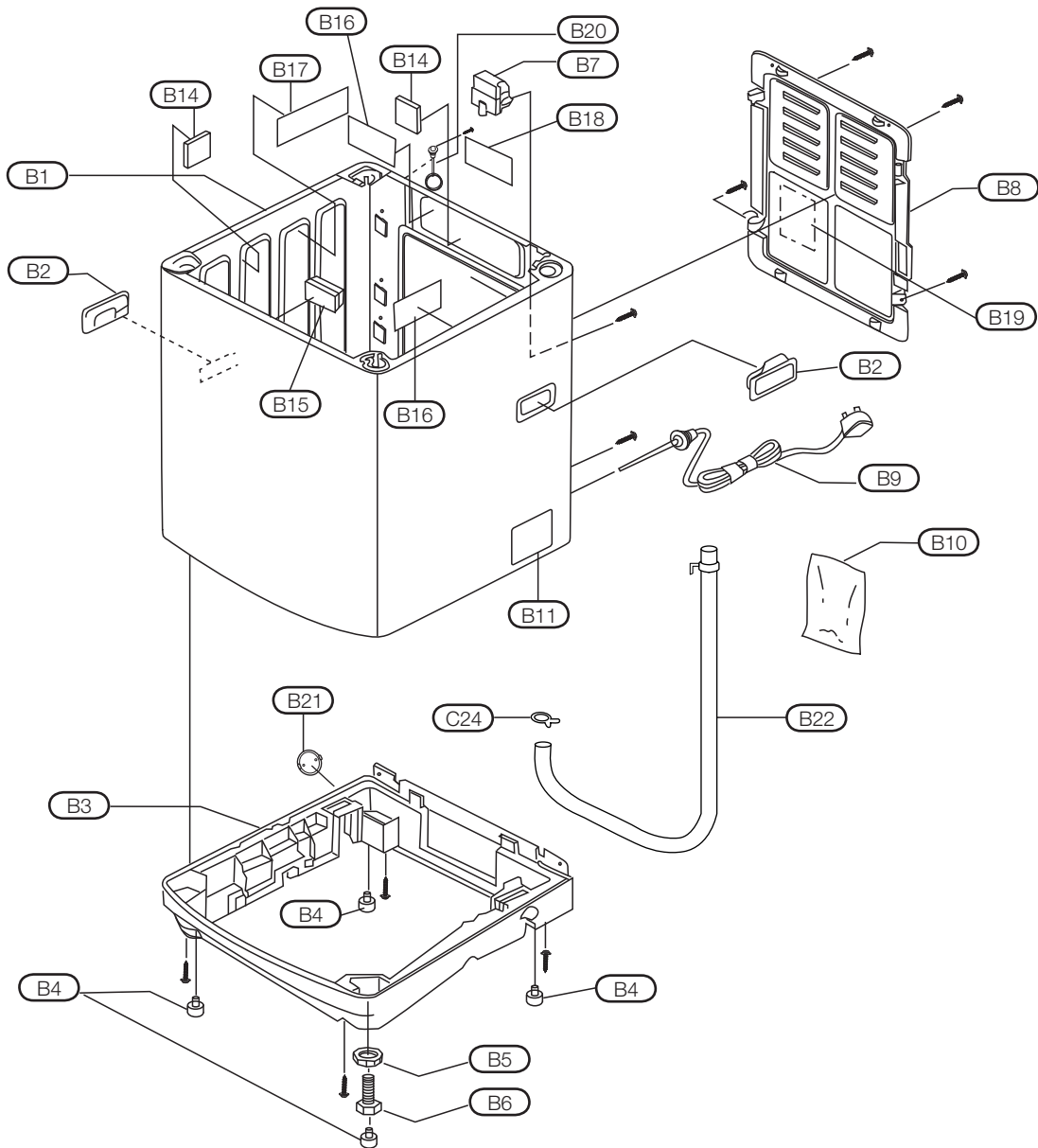
- Use the finger for pull end of Hook (Fig. 5) loose from the Base Unit (Fig. 4)
 - After Hook loose 1 side / We can remove it by twist Back Panel a little.
 - If it is difficult to remove / Have to use the finger to pull another side.

10. PARTS EXPLODED VIEW AND REPLACEMENT PARTS LIST

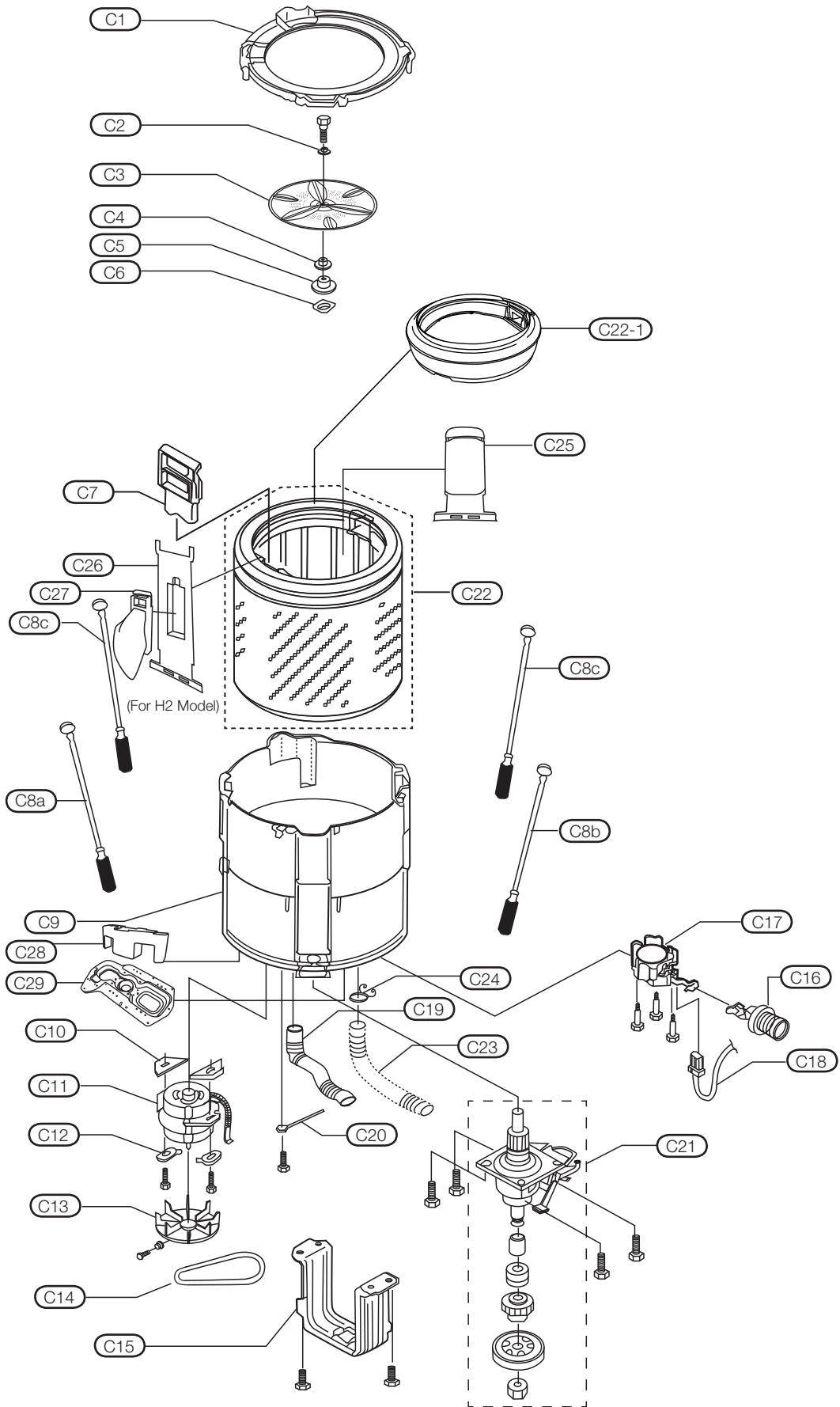
10.1 Parts Exploded View : Part A



10.3 Parts Exploded View : Part B



10.5 Parts Exploded View : Part C



10.6.1 Replacement Parts List : Part C of NA-F78B2 / NA-F80B2 / NA-F90B2 / NA-F1002B

Parts List

REF. NO.	PART NAME	PART NO.	SAFETY	MODEL				COUNTRY / QTY														REMARK										
				F78B2	F80B2	F90B2	F1002B	TH	INDO	VIET	MAL	INDIA	SIN-DBD	SIN-RBD	PHI	UAE-AFP	KUW	OMAN	QAT	BAR	LEB		UAE-PGF	LIB								
C1	OUTER TUB COVER	AXW32246CH10		●	●	●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
C2	O-RING	AXW0257BK00		●	●	●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
C3	PULSATOR	AXW05016ZR0E		●	●	●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
C4	SHAFT BUSHING	AXW05046ZR00		●	●	●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
C5	SPINNER SHAFT FLANGE NUT	AXW15176RU00		●	●	●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
C6	SPINNER FLANGE WASHER B	AXW151980200		●	●	●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
C7	FILTER UNIT	AXW022AJT0E		●	●	●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	FRAME : GREY
C8a	SUSPENSION UNIT (F-L)	AXW034U7LEA0		●	●	●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	FRONT : LEFT
C8b	SUSPENSION UNIT (F-R)	AXW034U7LE50		●	●	●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	FRONT : RIGHT
C8c	SUSPENSION UNIT (R-RL)	AXW034U7LE00		●	●	●	●	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	REAR : RIGHT & LEFT
C9	OUTER TUB A	AXW12016CG20		●	●	●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
C10	MOTOR WASHER A	AXW04207BK00		●	●	●	●	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
C11	MOTOR	AXW040158606	S	●	●	●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
C12	MOTOR WASHER B	AXW04217BK10		●	●	●	●	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
C13	MOTOR PULLEY	AXW04116XB00		●	●	●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		AXW04107LE00		●	●	●	●									1																
C14	V-BELT	AXW041219850		●	●	●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		AXW04127BL50		●	●	●	●									1																
C15	SPINNER PLATE B	AXW32327BL00		●	●	●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
C16	VALVE UNIT	AXW009D6ZR00		●	●	●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
C17	GEARED MOTOR	AXW348202516	S	●	●	●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
C18	LEAD WIRE UNIT	AXW014B6UP00	S	●	●	●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
C19	OVER FLOW HOSE B	AXW02345TW0M		●	●	●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
C20	EARTH WIRE UNIT (INTERNAL)	AXW003F6UP00	S	●	●	●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
C21	MECHA-CASE UNIT	AXW020A6UA60		●	●	●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
C22	TUB UNIT	AXW002A7LF00		●	●	●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
C22-1	BALANCER UNIT	AXW035A5TP0E		●	●	●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
C23	FLEXIBLE HOSE A UNIT	AXW002D6RU00		●	●	●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
C24	HOSE BAND	AXW02457EC00		●	●	●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
C25	TUB C UNIT	AXW12U6ZR0E		●	●	●	●	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
C26	TUB B UNIT	AXW012T7BK0E		●	●	●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
C28	BALANCE WEIGHT	AXW12317LE00		●	●	●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
C29	OUTER TUB B	AXW12027BK00		●	●	●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

Screws

REF. NO.	PART NAME	PART NO.	SAFETY	MODEL				COUNTRY / QTY														REMARK										
				F78B2	F80B2	F90B2	F1002B	TH	INDO	VIET	MAL	INDIA	SIN-DBD	SIN-RBD	PHI	UAE-AFP	KUW	OMAN	QAT	BAR	LEB		UAE-PGF	LIB								
	SPECIAL TAPPING SCREW	XTWAXW529		●	●	●	●	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	TUB A - TUB D	
		XTBAXW453		●	●	●	●	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	TUB A - TUB C
	PAN HEAD TAPPING SCREW	XTN4+8HFJ		●	●	●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	EARTH U - BODY A	
		XTN4+8HFJ		●	●	●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	EARTH U - OUTER TUB B	
	SPECIAL SMALL SCREW	XSSAXW682		●	●	●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	PULSATOR UNIT	
	SPECIAL BOLT	XVGAXW703J		●	●	●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	MOTOR PULLEY	
		XVGAXW839J		●	●	●	●	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	MOTOR	
		XVGAXW812J		●	●	●	●	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	MECHA CASE - OUTER TUB B	
	SPECIAL TAPPING SCREW	XTWAXW6517J		●	●	●	●	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	OUTER TUB A, B	
		XTWAXW6517J		●	●	●	●	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	SPINNER PLATE B
		XTWAXW6518J		●	●	●	●	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	GEARED MOTOR (CLUTCH)	
		XTWAXW435		●	●	●	●	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	OUTER TUB COVER	
		XTWAXW6517J		●	●	●	●	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	VALVE UNIT	

10.6.2 Replacement Parts List : Part C of NA-F80H2 / NA-F90H2

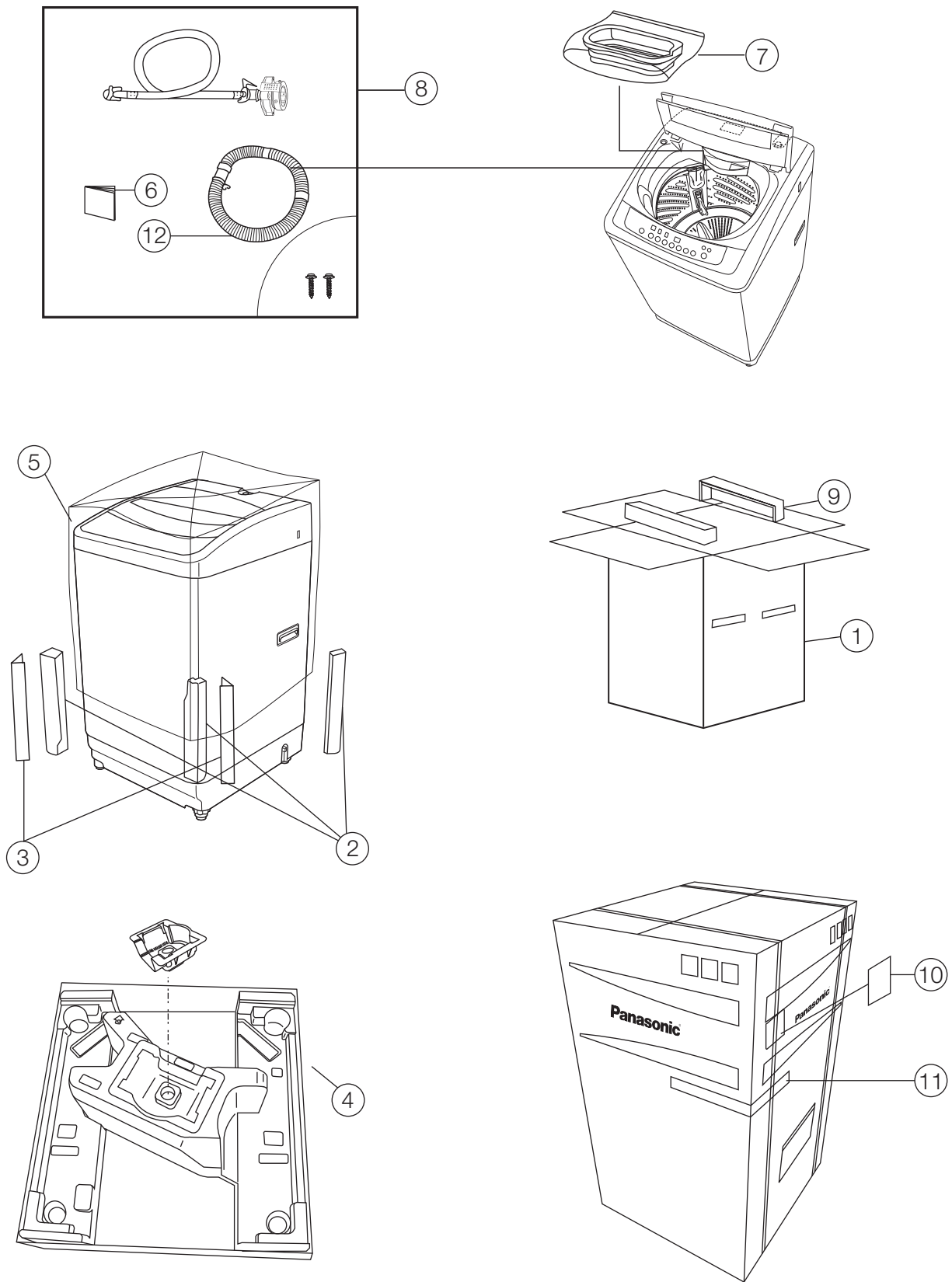
Parts List

REF. NO.	PART NAME	PART NO.	SAFETY	MODEL		COUNTRY / QTY														REMARK			
				F80H2	F90H2	TH	VIET	MAL	INDIA	SIN-DBD	SIN-RBD	PHI	UAE-AFP	KUW	OMAN	QAT	BAR	LEB	UAE-PGF		LIB		
C1	OUTER TUB COVER	AXW32246CH10		●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
C2	O-RING	AXW02577BK00		●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
C3	PULSATOR	AXW05016ZR1E		●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
C4	SHAFT BUSHING	AXW05046ZR00		●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
C5	SPINNER SHAFT FLANGE NUT	AXW15176RU00		●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
C6	SPINNER FLANGE WASHER B	AXW151980200		●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
C7	FILTER UNIT	AXW022A7FX1A		●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	FRAME : BLUE
C8a	SUSPENSION UNIT (F-L)	AXW034U7LEA0		●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	FRONT : LEFT
C8b	SUSPENSION UNIT (F-R)	AXW034U7LE50		●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	FRONT : RIGHT
C8c	SUSPENSION UNIT (R-RL)	AXW034U7LE00		●	●	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	REAR : RIGHT & LEFT
C9	OUTER TUB A	AXW12016CG20		●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
C10	MOTOR WASHER A	AXW04207BK00		●	●	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
C11	MOTOR	AXW040157826	S	●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
C12	MOTOR WASHER B	AXW04217BK10		●	●	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
C13	MOTOR PULLEY	AXW04116XB00		●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		AXW04107FV00		●	●							1											
C14	V-BELT	AXW041219850		●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		AXW04127BL50		●	●							1											
C15	SPINNER PLATE B	AXW32327BL00		●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
C16	VALVE UNIT	AXW009D6ZR00		●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
C17	GEARED MOTOR	AXW348202516	S	●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
C18	LEAD WIRE UNIT	AXW014B6UP00	S	●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
C19	OVER FLOW HOSE B	AXW02345TW0M		●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
C20	EARTH WIRE UNIT (INTERNAL)	AXW003F6UP00	S	●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
C21	MECHA-CASE UNIT	AXW020A6UA60		●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
C22	TUB UNIT	AXW00247LE00		●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
C22-1	BALANCER UNIT	AXW035A5TP0E		●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
C23	FLEXIBLE HOSE A UNIT	AXW002D6RU00		●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
C24	HOSE BAND	AXW02457EC00		●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
C25	TUB C UNIT	AXW012U6ZR0E		●	●	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
C26	TUB B UNIT	AXW0127LE00		●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
C27	FILTER B UNIT	AXW003W7LG00		●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
C28	BALANCE WEIGHT	AXW12317LE00		●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
C29	OUTER TUB B	AXW12027BK00		●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

Screws

REF. NO.	PART NAME	PART NO.	SAFETY	MODEL		COUNTRY / QTY														REMARK			
				F80H2	F90H2	TH	VIET	MAL	INDIA	SIN-DBD	SIN-RBD	PHI	UAE-AFP	KUW	OMAN	QAT	BAR	LEB	UAE-PGF		LIB		
	SPECIAL TAPPING SCREW	XTWAXW529		●	●	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	TUB A - TUB D
		XTBAXW453		●	●	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	TUB A - TUB C
	PAN HEAD TAPPING SCREW	XTN4+8HFJ		●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	EARTH U - BODY A
		XTN4+8HFJ		●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	EARTH U - OUTER TUB B
	SPECIAL SMALL SCREW	XSSAXW682		●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	PULSATOR UNIT
	SPECIAL BOLT	XVGAXW703J		●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	MOTOR PULLEY
		XVGAXW839J		●	●	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	MOTOR
		XVGAXW812J		●	●	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	MECHA CASE - OUTER TUB B
	SPECIAL TAPPING SCREW	XTWAXW6517J		●	●	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	OUTER TUB A, B
		XTWAXW6517J		●	●	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	SPINNER PLATE B
		XTWAXW6518J		●	●	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	GEARED MOTOR (CLUTCH)
		XTWAXW435		●	●	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	OUTER TUB COVER
		XTWAXW6517J		●	●	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	VALVE UNIT

10.7 Parts Exploded View : Packing Part



10.8.1 Replacement Parts List : Packing of NA-F78B2 / NA-F80B2 / NA-F90B2 / NA-F1002B

Parts List

REF. NO.	PART NAME	PART NO.	SAFETY	MODEL				COUNTRY / QTY																REMARK			
				F78B2	F80B2	F90B2	F1002B	TH	INDO	VIET	MAL	INDIA	SIN-DDB	SIN-RBD	PHI	UAE-AFP	KUW	OMAN	QAT	BAR	LEB	UAE-PGF	LIB				
1	PROTECTION CASE A	AXW90017LE00		●	●	●	●	1																			
		AXW90017LE50		●	●	●	●		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	CORNER CUSHION (F-SIDE)	AXW90157JP00		●	●	●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		AXW90157JP50		●	●	●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
3	CORNER PAD	AXW90167JP00		●	●	●	●	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
4	PROTECTION CASE B UNIT	AXW090B7LE00		●	●	●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
5	POLYETHYLENE COVER	AXW90607JP00		●	●	●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
6	OPERATING INSTRUCTION	AXW99017LF00			●	●		1																			
		AXW99017LF50			●	●					1	1	1	1													
		AXW99017LFA0		●	●	●									1												
		AXW99017LFF0			●	●						1															
		AXW99017LFG0				●											1	1	1	1	1	1	1	1	1	1	1
		AXW99017RN00					●		1																		
7	SPIN TUB SUPPORTER	AXW90857LE00		●	●	●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
8	ACCESSORY BAG	AXW90576JP00		●	●	●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
9	BODY COVER	AXW90047LE00		●	●	●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
10	STOCK CARD	AXW99187LF00				●		1																			
		AXW99187LJ00			●			1																			
		AXW99187RN00				●			1																		
		AXW99187LF50				●					1																
		AXW99187LJ50				●						1															
		AXW99187RP00		●											1												
		AXW99187LFA0				●							1														
		AXW99187LJA0				●							1														
		AXW99187LJF0				●							1														
		AXW99187LFG0					●							1													
		AXW99187LJK0					●								1												
		AXW99187LFP0					●									1											
		AXW99187LJP0					●										1										
		AXW99187LJU0					●										1										
		AXW99187LJX0					●											1	1	1	1	1	1	1	1	1	1
		AXW99187LJZ0					●																	1	1	1	1
11	CASE PLATE A	AXW91187LF00				●		2		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
		AXW91187LJ00				●		2		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
		AXW91187RN00				●		2		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
		AXW91187RP00		●					2		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
12	FLEXIBLE HOSE B UNIT	AXW002E6XB00		●	●	●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

10.8.2 Replacemen4 Parts List : Packing of NA-F80H2 / NA-F90H2

Parts List

REF. NO.	PART NAME	PART NO.	SAFETY	MODEL		COUNTRY / QTY														REMARK								
				F80H2	F90H2	TH	VIET	MAL	INDIA	SIN-DBD	SIN-RBD	PHI	UAE-AFP	KUW	OMAN	QAT	BAR	LEB	UAE-PGF		LIB							
1	PROTECTION CASE A	AXW90017LE00		●	1																							
		AXW90017LE50		●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	CORNER CUSHION (F-SIDE)	AXW90157JP00		●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1 SET	
	CORNER CUSHION (B-SIDE)	AXW90157JP50		●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1 SET	
3	CORNER PAD	AXW90167JP00		●	●	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
4	PROTECTION CASE B UNIT	AXW090B7LE00		●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
5	POLYETHYLENE COVER	AXW90607JP00		●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
6	OPERATING INSTRUCTION	AXW99017LE00			●	1																						
		AXW99017LE50		●	●				1	1	1	1																
		AXW99017LEA0		●	●		1																					
		AXW99017LEF0			●			1																				
		AXW99017LEK0				●									1	1	1	1	1	1	1	1	1	1	1	1	1	
7	SPIN TUB SUPPORTER	AXW90857LE00		●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
8	ACCESSORY BAG	AXW90576UP00		●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
9	BODY COVER	AXW90047LE00		●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
10	STOCK CARD	AXW99187LE00			●	1																						
		AXW99187LE50			●		1																					
		AXW99187LG50		●			1																					
		AXW99187LEA0			●			1																				
		AXW99187LEF0				●			1																			
		AXW99187LGK0		●						1																		
		AXW99187LEP0				●						1																
		AXW99187LEU0				●							1															
		AXW99187LEX0				●								1	1	1	1	1	1	1	1	1	1	1	1	1	1	
AXW99187LEZ0				●																			1	1	1			
11	CASE PLATE A	AXW91187LE00			●	2	2	2	2		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
		AXW91187LG00		●			2			2																		
12	FLEXIBLE HOSE B UNIT	AXW002E6XB00		●	●	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		

DETAIL CHANGE NOTICE

REVISION	ITEM NO.	PAGE	DETAIL	REMARK
OCT. 2011	1	21	ADD. NEW PICTURE AT B22, C24	ADD. FLEXIBLE HOSE B UNIT, HOSE BAND
	2	22, 23	ADD. PART NAME AND PART NO.	FOR FLEXIBLE HOSE B UNIT
	3	24	ADD. NEW PICTURE AT C22-1	ADD. BALANCER UNIT
	4	25, 26	ADD. PART NAME AND PART NO.	FOR BALANCER UNIT