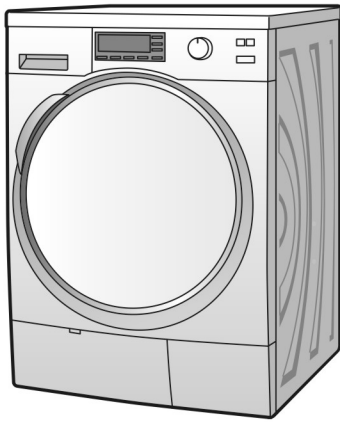


Service Manual

Heat Pump Tumble Dryer



NH-P80G2

Product Colour :White

Destination :Germany, United Kingdom, France, Spain,
Italy, Holland, Belgium, Sweden, Norway, Denmark
Poland, Czech, Hungary, Romania

Please file and use this manual together with the service manual for model No.NH-P80G1, Onler No.WMH1208196CE.

⚠ 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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1.SPECIFICATIONS

Model No.		NH-P80G2	
Power source		AC220V-240V/50Hz	
Product weight		55kg	
Dimensions(W*D*H)(mm)		596*625*845	
Maximum mass of dry cloth		8.0kg	
Body Colour		White	
Operation Panel		Dial+LED	
Drum r/min .(Rated load)		54~ 58 r/min.	
Fan r/min.		4.050 r/min.	
Drying Program		16	
Noise level		65dB	
Easy to take-out laundry		Big inlet 1056cm ²	
Power consumption		Final spin/Washing machine	
Cotton/Colours	Cupboard Dry	Eco 8kg	1600r/min 1.47kwh
			1000r/min 1.67kwh
		Speed 8kg	1600r/min 1.60kwh
			1000r/min 1.80kwh
Additional functions		Gently Dry、Buzzer、Anti-crease、Speed、Eco	
Maximum energy rated power input		870W-910W	
Course select		Cotton/Colours (Extra Dry、Cupboard Dry Plus、Cupboard Dry、Iron Dry)、Easy-care(Extra Dry、Cupboard Dry、Iron Dry)、Mixed(Cupboard Dry、Iron Dry)、Rapid 40、Outdoor/Sports、Wool、Silk/Lingerie、Shirts、Timed Prog.(Warm、Cold)	
Moisture sensors		Detect damp the laundry	
Filters		Fluff filter、Fine filter、Filter frame	
Buzzer		Cycle-end buzzer,Beeper alarm	
Error display		U appears: 4 items H appears: 17 items	
Accessories		Spanner、Extended water-drain hose	

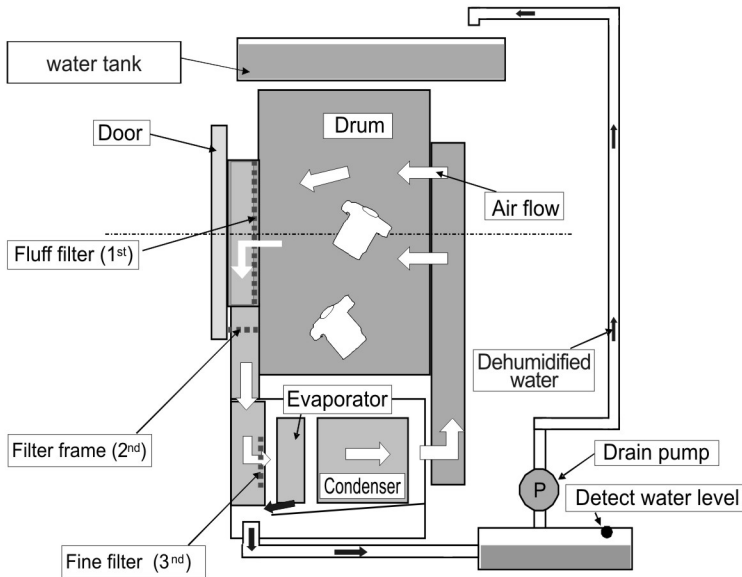
DIFFERENCE WITH P80G1

	Existent: NH-P80G1	New: NH-P80G2
Energy label	Old (Until May/2013) Energy efficiency grade : A Energy consumption: 1.54 kWh (8kg 1time) Dry time :(No display)	New Energy efficiency grade : A++ Energy consumption::212kWh(Year) Dry time : 170min(8kg 1 time)
Remaining time display	Cotton Cupboard Dry: 150min	170min (Cotton course:+20min)
Load detect	Detection accuracy of 1/2 full load 47%	Load detect of Cotton and Colour course is same algorithm of P80S1 85%
Addition drying basket hook	-	Addition drying basket hook at Drum A unit (Same as P80S1)

2.PRODUCT INFORMATION

2-1.Structure of the Heat Pump Dryer

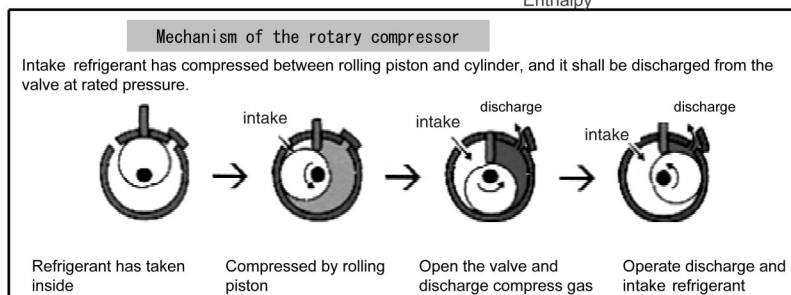
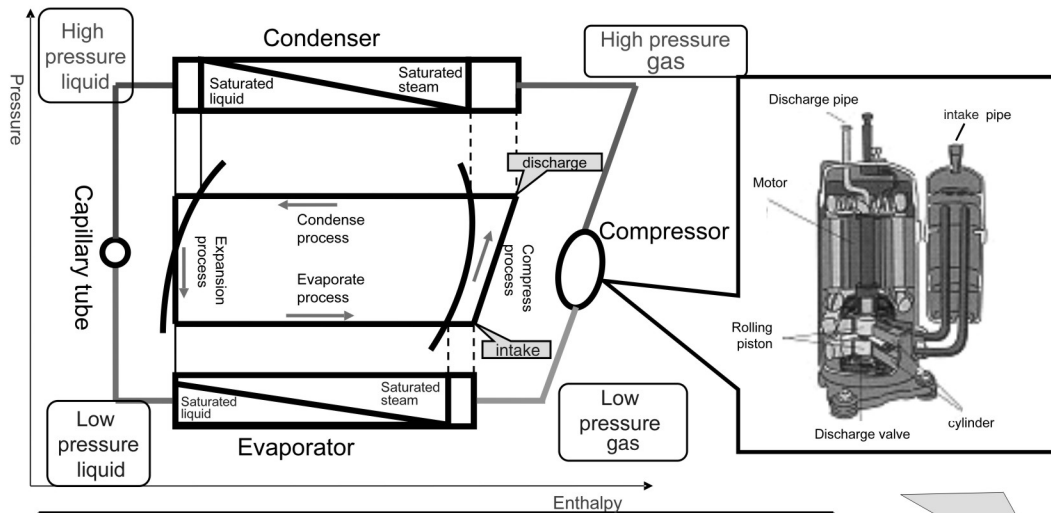
- Dehumidification water shall be detected, and pump water up to the water tank by the drain pump.



Specification of the NH-P80G1

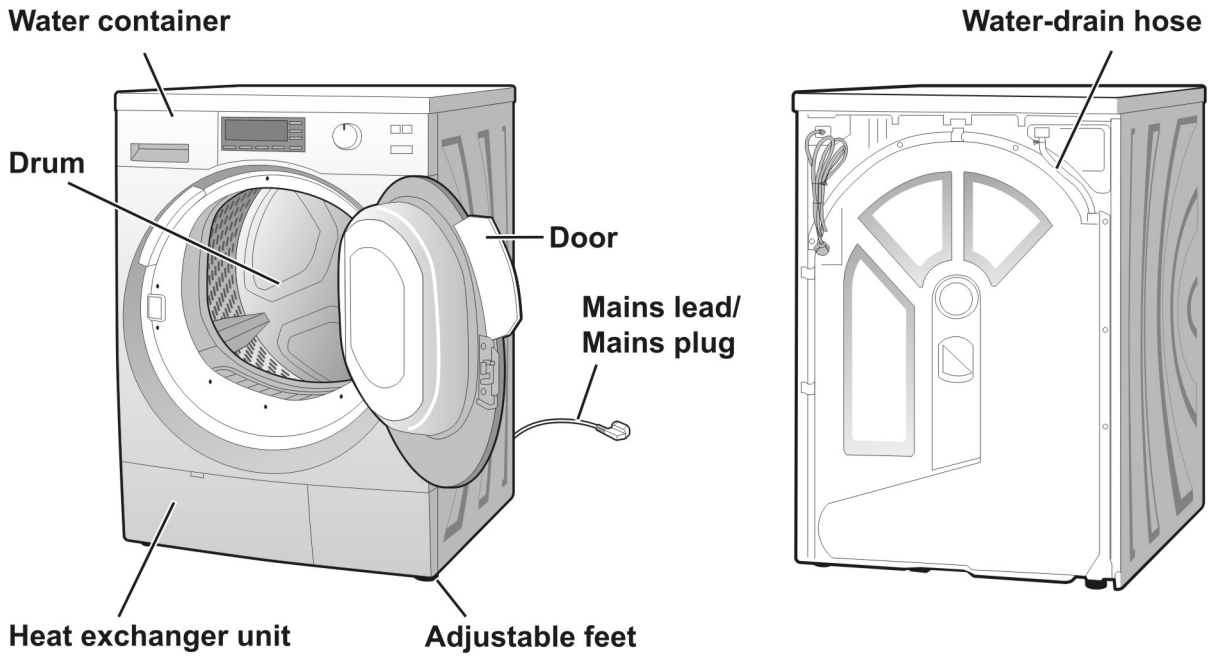
Dehumidification performance	4.2L /150 min.(8kgIEC test cloth)
Volume of air flow	4.0m ³ / min
Compressor	Made by ADBU 6TD075XAA41 (Twin rotary, Inverter type) Φ84 L=170 Cylinder capacity: 7.5 cc
Refrigerant	R134a 276 g
Heat exchange Unit	Evaporator 3 rows, 7 stages Approx. 1,800cm ³
	Condenser 6 rows, 7 stages Approx. 3,700cm ³

● Explanation of the Heat Pump cycle



3.KNOW THE TUMBLE DRYER

3-1.Component Name



Caution

Do NOT bend the mains lead when the appliance is running.

Accessories

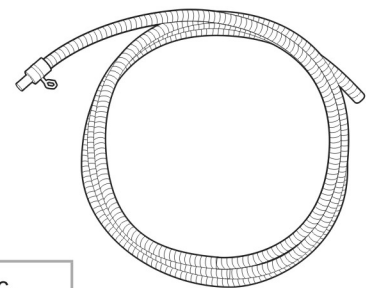
Make sure that all the accessories are supplied with the appliance.

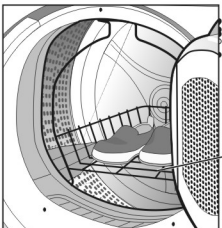
Spanner

For adjusting the foot.




Extended water-drain hose





Using the optional drying basket can dry sports shoes, etc. (with Timed Prog. Warm).

Optional accessory
Drying basket (N-DB1)

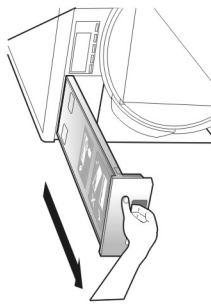


5. MAINTENANCE

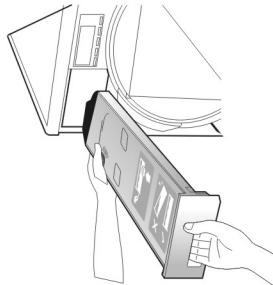
Emptying water

Empty the water after every drying. Do not empty it while drying.

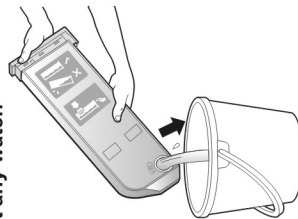
1. Pull out the water container and hold it level.



2. Remove the water container by simultaneously lifting and pulling it forward.



3. Pour out any water.



4. Insert the water container all the way back into the unit until it locks itself into position.

Cleaning the outside of the appliance

Clean the outside of the appliance with a soft cloth and mild detergent, for example, kitchen detergent, and soapy water. Remove lint and dust that accumulate around the appliance.

Warning

- Do NOT splash water over the appliance.
- Do NOT use cream cleansers, thinners, nor products containing alcohol or paraffin oil.

Cleaning the drum

The drum and other stainless steel parts can be cleaned with a suitable proprietary stainless steel cleaner in accordance with the manufacturer's instructions.

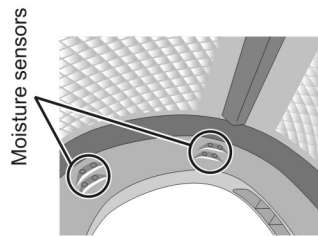
Cleaning the door

- After each drying, perform the following:
- Remove any objects from the door seal.
 - Wipe the door and seal to remove lint and stains.

Cleaning the moisture sensors

Clean once a month
The appliance is equipped with stainless-steel moisture sensors. They measure how damp the laundry is. After long periods of use, a fine layer of limescale can form on the moisture sensors.

The moisture sensors are located near the door opening on the internal side of the drum.



1. Open the door.

2. Clean the moisture sensors using a damp sponge with a rough surface.

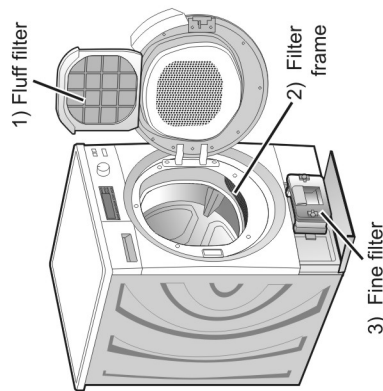
Caution

Do NOT use steel wool or other abrasive materials.

Filter locations

Filters are located in the following 3 locations.

- 1) In the door (fluff filter)
- 2) In the door opening (filter frame)
- 3) In front of the heat exchanger unit (fine filter)



Make sure you clean filters at the designated intervals.

- Clean the fluff filter after every drying programme.
 - Clean the fine filter every half month.
- Clean the filter frame when foreign particles build up on it.
Clean all filters every 10 operations.

Caution

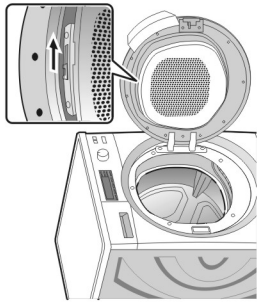
The appliance must not be used if any filter is out of its place or damaged in any way.

The excessive build-up of fluff might cause a malfunction

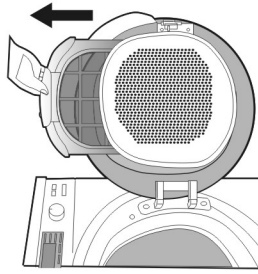
Cleaning the fluff filter

Clean the fluff filter after every drying programme.

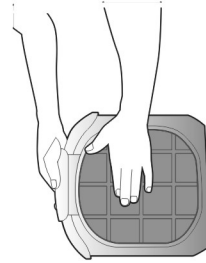
1. Open the door, and then slide the lever on the top of the door.



2. Pull out the fluff filter.



3. Rub your hand against the filter to remove any fluff.



Rinse the filter under running water and dry thoroughly. Be careful not to tear the net.

4. Replace the fluff filter to its original position.



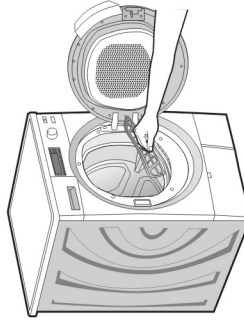
Extra cleaning

Remove any fluff from the hollow part of the door with a bottle brush or a vacuum cleaner.

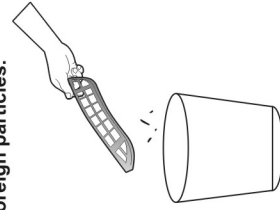
Cleaning the filter frame

Clean the filter frame when foreign particles build up on it.

1. Open the door, and then remove the filter frame from the bottom of the door opening.



2. Turn the filter frame upside down to remove foreign particles.

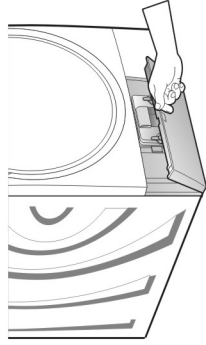


3. Replace the filter frame to its original position.

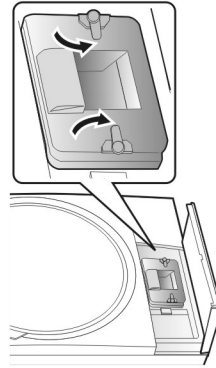
Cleaning the fine filter

Clean the fine filter every month.

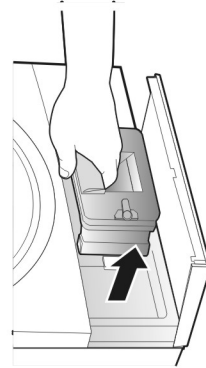
1. Open the panel.



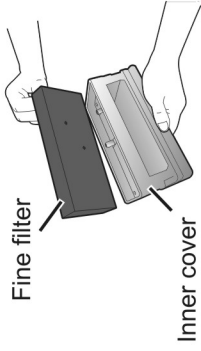
2. Turn the levers on the inner cover.



3. Pull the handle to remove both the inner cover and fine filter.

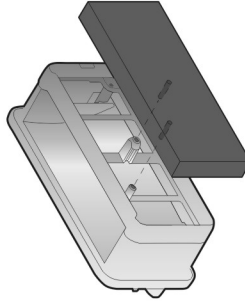


4. Separate the fine filter from the inner cover.



5. Clean the fine filter using a vacuum cleaner or with water.

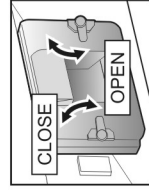
6. Replace every part to its original position.



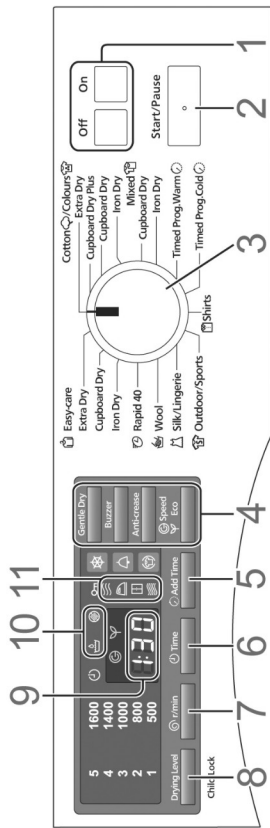
Fit the projections of the inner cover into the holes of the fine filter while joining both parts together.

Note

To open or close the levers on the inner cover, refer to the following figure.



6. USING THE BUTTONS



1. Power buttons

- If you do not press the Start button within 10 minutes after the appliance has been switched on, the appliance automatically switches itself off.
- The display below appears for 10 seconds after the appliance has been switched off. You cannot turn the appliance on until this display disappears.



2. Start/Pause button

Press this button to start or pause the drying programme.

3. Programme selection dial

Use this dial to choose the best programme for the laundry.

4. Additional function buttons

Press these buttons to add functions to the programme to suit the laundry.

5. Add Time button

Press this button to set times for the Timed programmes (Timed Prog.).

6. Time button

Press this button to preset the time for when the drying finishes.

7. Spin speed button

Press this button to select the final spin speed (r/min) used in the washing machine programme. Use this button only if the anticipated drying time needs to be displayed more accurately.

8. Drying Level button/ Child Lock button On

- Press this button to choose from 5 different drying level settings (1, 2, 3, 4, 5) for Cottons, Easy-care, Mixed, Rapid 40, and Outdoor/Sports programmes. '3' is the default setting level.
- Press and hold this button to set the child lock. The controls will be locked.

9. Remaining time indicator

This indicator shows the approximate time until the drying finishes. For example, '1:30' means 1 hour and 30 minutes.

10. Warning indicators

- These indicators warn the user of specific conditions.
- Water container full warning
- Clogged filter warning

11. Process indicators

- These indicators show the programme's processes. Processes consist of dry, iron dry, cupboard dry, and cupboard dry plus (Extra dry).
- After drying starts, the dry indicator starts flashing, and the other indicators light up in sequence from top to bottom as each process in the programme is completed. After the programme finishes, the dry indicator goes out, and the last process indicator remains lit until the appliance switches itself off, or is turned off.

Child lock

The child lock disables the control buttons.

Activating/deactivating child lock

1. Switch on the appliance.
2. Select the programme and optional functions, and then start the programme.
3. Press and hold the Drying Level button. The On symbol lights up to show that the child lock is activated.
4. To deactivate, hold down the Drying Level button again (please ignore three beeps heard), keep Drying Level button pressed until it unlocks. The On symbol disappears.

Warning

- Do NOT leave children unsupervised near the appliance.
- Keep pets away from the appliance.

Additional functions

Depending on the programme, you can combine different additional functions.

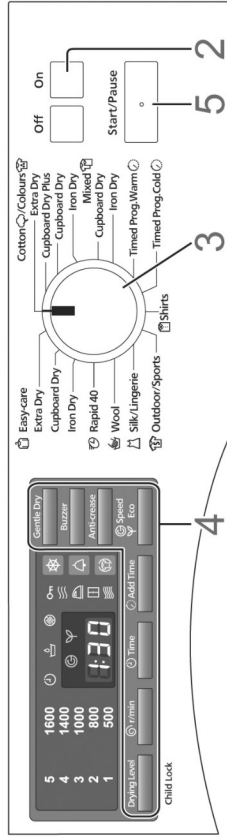
Note

Some additional functions cannot be used with certain programmes. If you select an unavailable function, an error alarm will sound.

Press one or more of the function buttons you wish to combine. The corresponding indicators will light up.

Function	Description
Gentle Dry	Gently dry laundry with approximately 45°C warm air.
Buzzer	Press this button to turn the programme finished buzzer on or off. You will hear the buzzer sound which indicated that the buzzer is switched on or off.
Anti-crease	Prevent creasing. After the drying ends, the drum rotates at intervals for 2 hours. The indicators keep flashing during the Anti-crease process.
Speed	Drying times will be shorter than when the Eco function is set.
Eco	Drying takes longer but consumes less energy.

Setting drying



1. Open the door and put the laundry into the drum.

For details about preparing and sorting the laundry.

Caution

-Make sure that no laundry gets caught in the door.

-Do NOT overload the drum. Observe the capacity of the selected programme.

Overloading may cause excessive vibration, damage to the appliance, and more creasing of the load.

2. Close the door and press the On button.

3. Turn the programme selection dial either way to select the programme.

A drying time will be displayed.

4. Select optional functions.

- Additional functions
- Spin speed
- Drying level

For more details about available functions and settings for each programme, see details of programme.

5. Press the Start button.

After the appliance has started, the laundry is weighed. After about 3 minutes, a new drying time will be displayed. If you select the Wool, Silk/Lingerie, Shirts, or Timed programme, the laundry is not weighed.



The buzzer will sound when the programme has finished.

For details on setting the buzzer.

Remove the laundry and rearrange where necessary. Do not leave it in the drum too long after the programme ends, because it may be seriously creased.

When you dry items with long fibres, such as bath mats, a lot of lint may be generated, and the lint balls may adhere to the other clothing.

Required time

Times depend on the programmes, drying level settings and other settings that have been selected.

- Since the displayed times change automatically according to the sizes and moisture levels of the loads and the ambient temperatures of the appliance, the times might not decrease for a while or might suddenly decrease.

- For the programmes which automatically weigh the loads, 3 minutes after drying starts the remaining required times might suddenly be shortened.

- Actual times may differ from those shown.

Changing settings while drying

No setting can be changed after drying has started.

Preset timer

You can preset the time for when the drying finishes.

The drying might finish before or after preset times depending on the kind of laundry, the temperature, and the moisture content in the laundry.

Setting a preset time

Continuously press the Time button until the desired preset time is displayed. The preset time increases by 1 hour each time it is pressed. Press and hold the button to change the preset time rapidly.

Programme	Applicable preset times
Cotton/Colours	6 - 24 hours
Easy-care	4 - 24 hours
Mixed	4 - 24 hours
Rapid 40	3 - 24 hours
Outdoor/Sports	4 - 24 hours
Wool	1 - 24 hours
Silk/Lingerie	3 - 24 hours
Shirts	3 - 24 hours
Timed Prog. Warm	3 - 24 hours
Timed Prog. Cold	3 - 24 hours

Changing a preset time

1. Press the Off button, and then press the On button.
2. Choose the desired programme and additional functions.
3. Set a preset time.

Canceling a preset time












Press the Off button. (All settings will be cancelled.)

Checking a preset time

Press the Time button.

7.PROGRAMMES

7-1.Details of Programmes

Programme	Load weighed	Default setting			Manual setting		Additional functions				Add Time
		Drying Level ¹⁾	Spin speed ¹⁾	Approximate time	Drying Level	Spin speed	Gentle Dry ³⁾	Anti-crease	Speed ³⁾	Eco	
 Cotton  Colours	✓	3	1000	3:10 ²⁾	1 - 5	500 - 1600	✓	✓	✓	✓	—
				3:00 ²⁾							
				2:50 ²⁾							
				2:20 ²⁾							
 Easy-care	✓	3	1000	1:30	1 - 5	500 - 1600	✓	✓	✓	✓	—
				1:10							
				0:50							
 Mixed	✓	3	1000	1:30	1 - 5	500 - 1600	✓	✓	✓	✓	—
				1:10							
 Rapid 40	✓	3	1000	0:40	1 - 5	500 - 1600	—	✓	—	✓	—
 Outdoor/Sports	✓	3	1000	2:00	1 - 5	500 - 1600	✓ ⁴⁾	✓	—	✓	—
 Wool	—	—	—	0:15	—	—	✓ ⁴⁾	—	—	✓	—
 Silk/Lingerie	—	—	—	1:00	—	—	✓ ⁴⁾	—	—	✓	—
 Shirts	—	—	—	1:00	—	—	—	—	—	✓	—
 Timed Prog. Warm	—	—	—	0:10	—	—	—	—	—	✓	✓
 Timed Prog. Cold	—	—	—	0:10	—	—	—	—	—	✓	✓










1) If the appliance has been operated even once, the Drying Level and Spin speed set in the previous operation have been memorized.

2) When the Speed function is set, the approximate time will be 50 minutes less than the time stated here.

3) The Gentle Dry function and Speed function cannot be used together. Only one of these functions can be set at a single time.

4) The Gentle Dry function is automatically set. Although the function cannot be selected its indicator will light up.

7-2.Details of Programmes Selecting the Programme

Programme	Description and types of fabric that can be dried												Max load		
	T-shirt	Shirt	Anorak	Trousers	Skirt/dress	Sport wear	Work clothing	Underwear	Socks	Towelling dressing gown	Terrycloth towel	Tea towel		Table linen	Bed linen
 Cotton  Colours	For white and coloured cottons or linens												8 kg		
	Extra Dry	-	-	-	-	-	-	-	-	✓	✓	✓		-	✓
	Cupboard Dry Plus	-	-	-	-	-	✓	✓	✓	✓	✓	✓		-	✓
	Cupboard Dry	-	-	-	-	-	✓	✓	✓	✓	✓	✓		-	✓
Iron Dry	✓	-	✓	✓	✓	✓	✓	✓	-	-	✓	✓	✓		
 Easy-care	For non-iron synthetic fibres, cottons, or blended fabrics												4 kg		
	Extra Dry	-	✓	-	-	-	-	-	-	-	-	-		✓	✓
	Cupboard Dry	-	✓	-	-	-	✓	✓	✓	-	-	-		-	-
Iron Dry	-	✓	-	✓	✓	✓	✓	✓	-	-	-	-	-		
 Mixed	For mixed items made of cotton and easy-care fabrics												4 kg		
	Cupboard Dry	-	✓	-	-	-	✓	✓	✓	-	-	✓		-	✓
	Iron Dry	✓	✓	-	✓	✓	✓	✓	✓	-	-	✓		✓	✓
 Rapid 40	For quick drying of synthetic fibres, cottons or blended fabrics. Drying times may not exactly 40 minutes depending upon the types of fabrics, composition and moisture content of the loads.												1.5 kg		
	Cupboard Dry	-	✓	-	-	-	✓	✓	✓	-	-	✓		-	✓
 Outdoor/Sports	For membrane coated fabrics, water-repellent fabrics, functional clothing, fleece fabrics (dry jackets/trousers with removable internal lining separately)												2.5 kg		
	Wool	-	-	-	-	-	-	-	-	-	-	-		-	-
 Silk/Lingerie	For woollen fabrics suitable for tumble drying. Fabrics become fluffier but not dry. Remove the laundry once the programme ends and allow them to dry.												2 kg		
	Shirts	For lingerie and washable silk items													
 Timed Prog. Warm	For shirts and blouses												2 kg		
	For pre-dried, multi-layered, sensitive acrylic fibres and small items of laundry, and for subsequent drying												4 kg		
	Using the optional drying basket can dry sports shoes, etc. (See page 6.)												1 kg		
 Timed Prog. Cold	For freshening up or airing of clothing made of heat-labile fabrics that have been worn for a short period of time. The clothing does not have to be washed.												4 kg		

Post-drying ironing

Sub-programme	Applicable drying method			
	Iron	Lightly Iron	Not iron	Mangle
Extra dry	-	-	✓	-
Cupboard dry plus	-	-	✓	-
Cupboard dry	-	-	✓	-
Iron dry	✓	✓	✓	✓

Sub-programme description

Extra dry

For multi-layered and very thick fabrics
 Example: towelling dressing gowns and bed linens
 Do not use this sub-programme for loop knitted fabrics (T-shirts, underwear and baby clothes, for example), as they have a tendency to shrink.

Cupboard dry plus

For fabrics which dry more slowly than general fabrics
 Example: terrycloth towels and table linen

Cupboard dry

For general fabrics
 Example: trousers, skirts and dresses

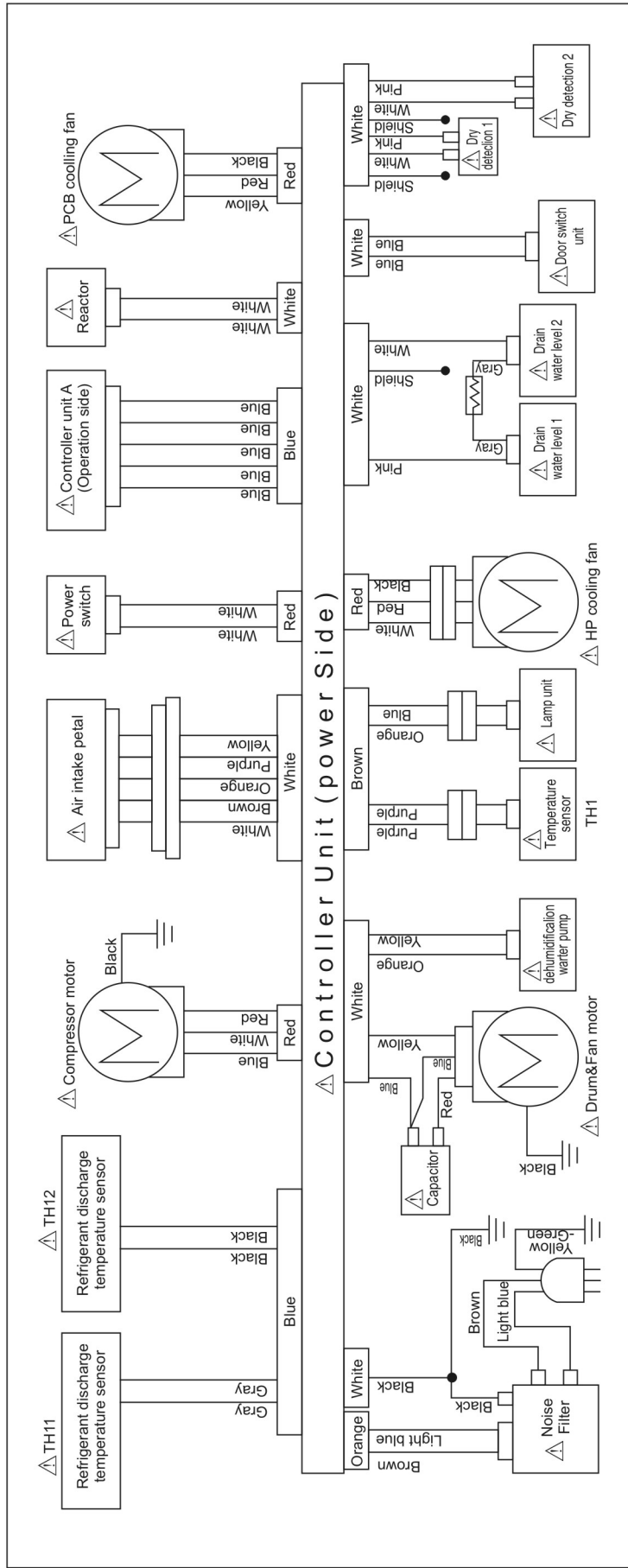
Iron dry

For cotton or linen fabrics which you would like to iron
 Example: table linen and bed linen

Note

To prevent laundry from drying out, it should be rolled up until it is ironed.

8. WIRING DIAGRAM



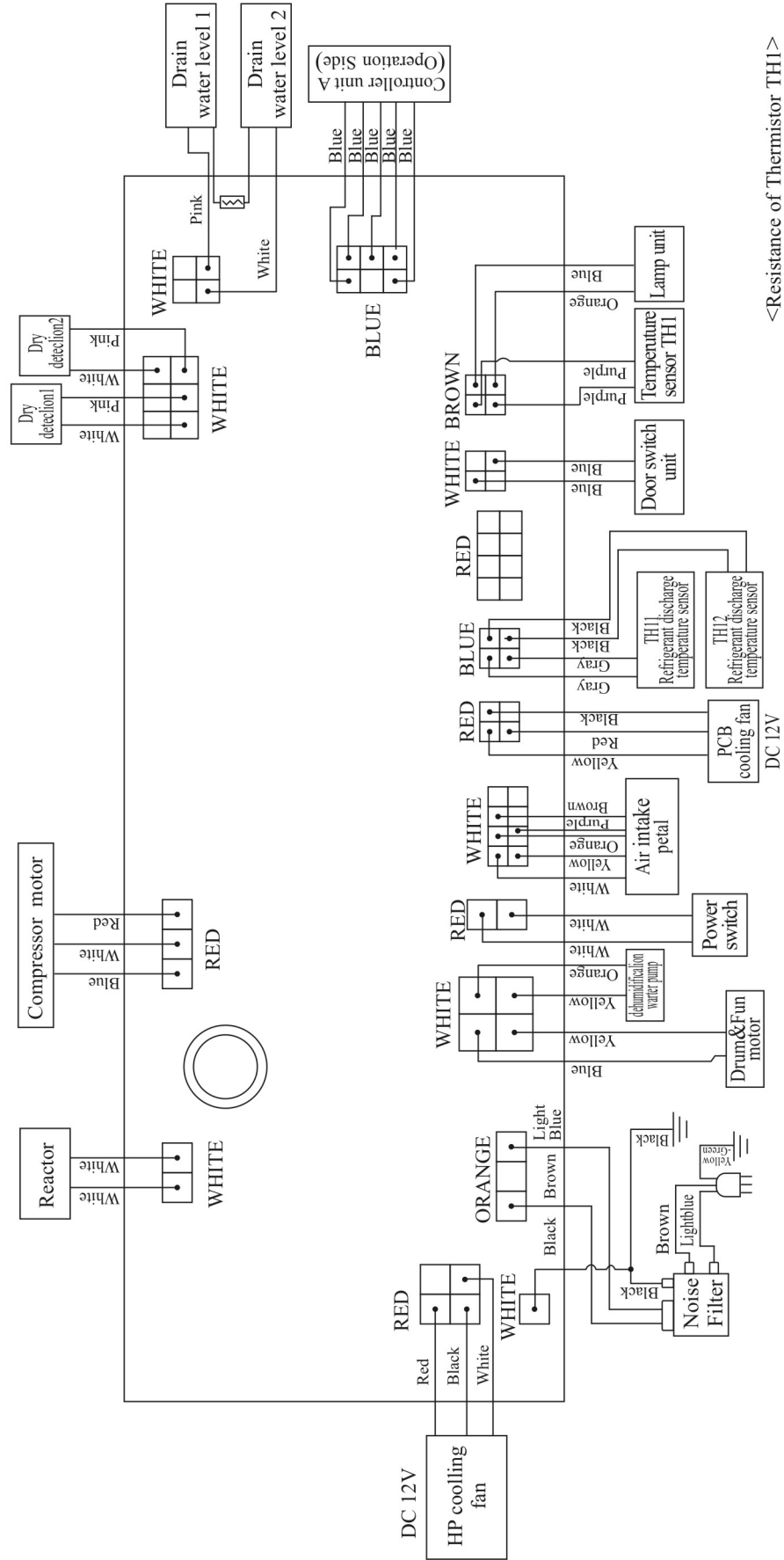
⚠ : The components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components use only manufacture's specified parts.

9. TROUBLESHOOTING

Problem	Cause
Appliance does not work.	<ul style="list-style-type: none"> - The fuse may have blown out or breaker may have tripped. - The mains plug may not be connected firmly to the mains socket. - The On button may have not been pressed. - The Start button may have not been pressed. - The door may not be closed properly.
Buttons do not work	<ul style="list-style-type: none"> - Settings cannot be changed while drying is in progress. To change settings, switch the appliance off and on again. Then, set the settings again. - Child lock may be activated.
Drying repeatedly starts and stops.	<ul style="list-style-type: none"> - This is not a malfunction; the drum slowly rotates and stops repeatedly when the "Anti-crease" function has been set.
Laundry is not sufficiently dried. (Some portions are damp.)	<ul style="list-style-type: none"> - The laundry might have been added to the drum during drying. - The laundry may have become tangled. - The laundry may be too heavy. - Try using the Warm Timed programme (Timed Prog. Warm) for small synthetic fibre loads, or dry them together with large items of clothing. - The moisture sensors may be dirty.
Drying takes too long.	<ul style="list-style-type: none"> - The laundry may be too wet. - The laundry may have become tangled. - The laundry may be too heavy. - Clothes which dry quickly and clothes which dry slowly may have been dried together. - The ambient air temperature may be too low.
Items made of synthetic fibres are charged with static electricity after drying.	<ul style="list-style-type: none"> - Reduce static electricity charges by adding fabric conditioners to wash loads during the final rinse cycles.
A small item, for example, a button, has dropped through the filter frame hole.	<ul style="list-style-type: none"> - Bring the item out by opening the panel in front of the heat exchanger unit just the same as when cleaning the fine filter.
The clogged filter warning indicator is flashing although none of the filters are clogged.	<ul style="list-style-type: none"> - This is not a malfunction; the clogged filter warning indicator flashes to alert users to clean the filters after every 20th drying programme (once a month). The indicator may flash even if the filters have been cleaned.
The displayed remaining time changes.	<ul style="list-style-type: none"> - The remaining time is estimated and corrected continually. Thus, the time displayed may change.
The operating sound changes.	<ul style="list-style-type: none"> - This is normal; the change is caused by the on-off conditions of the compressor and draining pump.
'0' display remains after the programme has finished.	<ul style="list-style-type: none"> - This is not a malfunction; without the Anti-crease function being set, the appliance automatically switches itself off 2 hours after the programme finishes.
The lamp inside the drum has gone out.	<ul style="list-style-type: none"> - The lamp lights up for 10 minutes when the door is opened after the programme finishes. To activate the lamp again, switch on the appliance, and then open the door again.
The lamp inside the drum does not light up.	<ul style="list-style-type: none"> - If 2 hours have elapsed after a programme is completed, the lamp will not light since the appliance automatically switches itself off.

10.CHECK INPUT AND OUTPUT VOLTAGE OF THE PC BOARD

- 10-1. 1. Before replace PC Board, check input and output voltage of the PC Bord.
 2. Check range of the test meter.
 3. When check output voltage of the PC Bord, set a program of the Heat Pump Tumble Dryer on the working mode.



<Resistance of Thermistor TH1 >

25°C	Approx. 9k Ω
20°C	Approx. 12k Ω

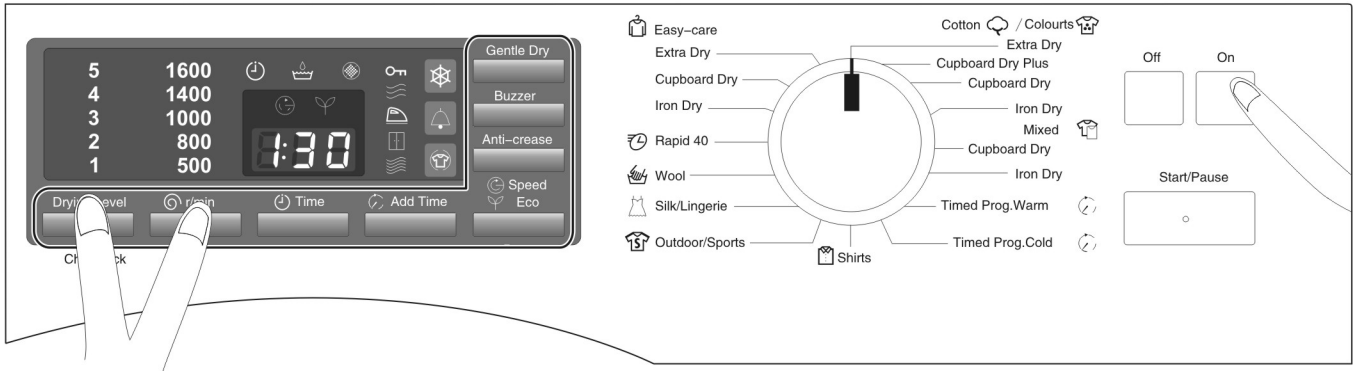
11.ERROR DISPLAY

If there is an operation error, or if there is an occurrence of the electric component problem on the Heat Pump Tumble Dryer, the program of the operation shall be stopped, and warning buzzer shall be rung (All of U), and “U” and a number appears alternately.

Indication	Error Contents	Detect contents	Check point	Method to clear
U 12	The door is open	Door is opening at start point of the operation.	<ul style="list-style-type: none"> •Is the door open? •If the door being shut, check if the door hook is warped. 	Close the door securely and press the start button
U 15	Unable to drain	Detect abnormal frequency of the water level detector after operates drain pump 2 min.	<ul style="list-style-type: none"> •Empty the water if the water container is full. 	Turn off the power.
U 30	Aberrant ambient temperature	Detects below -5°C after 10 sec. from starts, or over 40°C until 20 min.	<ul style="list-style-type: none"> •Operate the appliance within an operating ambient temperature range ($5^{\circ}\text{C}\sim 35^{\circ}\text{C}$). 	Turn off the power.
H02	Drum / Fan motor error	Relay open or short incase input current flows abnormal level during operation.	<ul style="list-style-type: none"> •Replace PC Board (Power side). 	Turn off the power.
H04	Short circuit of the power relay on the PC. Board	Detect short circuit of the power relay on the PC. Board	<ul style="list-style-type: none"> •Replace PC Board (Power side). 	Remove the power plug.
H05	Data shall not be memorized	Data won't memorized to the micro processor.	<ul style="list-style-type: none"> •Replace PC Board (Power side). •Effects Service Check (mode-D only). 	Turn off the power.
H09	Error of communication line between two PC Boards	Won' t communicate between the PC. Board power side and operation side.	<ul style="list-style-type: none"> •Check if lead wire condition of PC. Board between power and operation side. and replace one of PC. Boards. 	Remove the power plug.
H11	Open or short circuit of the thermistor TH1	Detect abnormal temperature from the thermistor TH1.	<ul style="list-style-type: none"> •Check the condition of the connectors. •Replace the thermistor TH1. 	Turn off the power.
H28	Decreased rotation speed of the cooling fan for the Heat Pump	Rotation speed of the cooling fan shall be decreased below 1200 r/min.	<ul style="list-style-type: none"> •Check if condition of the connector for the cooling fan. •Replace the cooling fan for HP •Replace PC Board (Power side). 	Turn off the power.
H29	Decreased rotation speed of the cooling fan for the PC. Board	Rotation speed of the cooling fan shall be decreased below 1200 r/min.	<ul style="list-style-type: none"> •Check if condition of the connector for the cooling fan. •Replace the cooling fan for PC Board. •Replace PC Board (Power side). 	Turn off the power.

Indication	Error Contents	Detect contents	Check point	Method to clear
H47	Error of drying level detector (It's not appeared on the indicator)	Detect abnormal signal of the drying level detector after operates 3 min.	<ul style="list-style-type: none"> •Check if condition of the connector for the drying level detector. •Replace PC Board (Power side). 	Turn off the power.
H52	Supplied abnormal high voltage	Measured input voltage (Voltage is above tolerance levels).	<ul style="list-style-type: none"> •Check input voltage to the washing machine. 	Turn off the power.
H53	Supplied abnormal low voltage	Measured input voltage (Voltage is below tolerance levels).	<ul style="list-style-type: none"> •Check input voltage to the washing machine. 	Turn off the power.
H81	Error of rotation speed of the compressor	Rotation speed of the compressor shall be detected over 160 r/s or below 5 r/s.	<ul style="list-style-type: none"> •Check if condition of the connector for the compressor. •Replace PC. Board (Power side). •Replace the Heat pump unit. 	Turn off the power.
H86	Error of exhaust air temperature	Detect over 100°C from the thermistor of exhaust air temperature.	<ul style="list-style-type: none"> •Replace the drying fan motor •Replace the Heat pump unit. 	Turn off the power.
H87	Low tension of the fan belt	Detect abnormal temperature over 77°C.	<ul style="list-style-type: none"> •Fix the fan belt. •Check if proper tension of the fan belt. 	Turn off the power.
H91	Error of output signal from detect circuit	Detect Low level of output signal from detect circuit	<ul style="list-style-type: none"> •Replace PC Board (Power side). •Replace the Heat pump unit. 	Turn off the power.
H93	Error of exhaust air temperature detector	Detect abnormal signal from the exhaust air temperature detector.	<ul style="list-style-type: none"> •Check if condition of the connector for the exhaust air temperature detector. •Replace the Heat pump unit. 	Turn off the power.
H96	Error of compress air temperature detector	Detect abnormal signal from the compress air temperature detector.	<ul style="list-style-type: none"> •Check if condition of the connector for the compress air temperature detector. •Replace the Heat pump unit. 	Turn off the power.
H97	Removed connector of dehumidified water detector	Detect frequency of the dehumidified water level detector.	<ul style="list-style-type: none"> •Check if condition of the connector for the dehumidified water detector. •Replace PC Board (Power side). 	Turn off the power.















12. Operating Test (Service check)



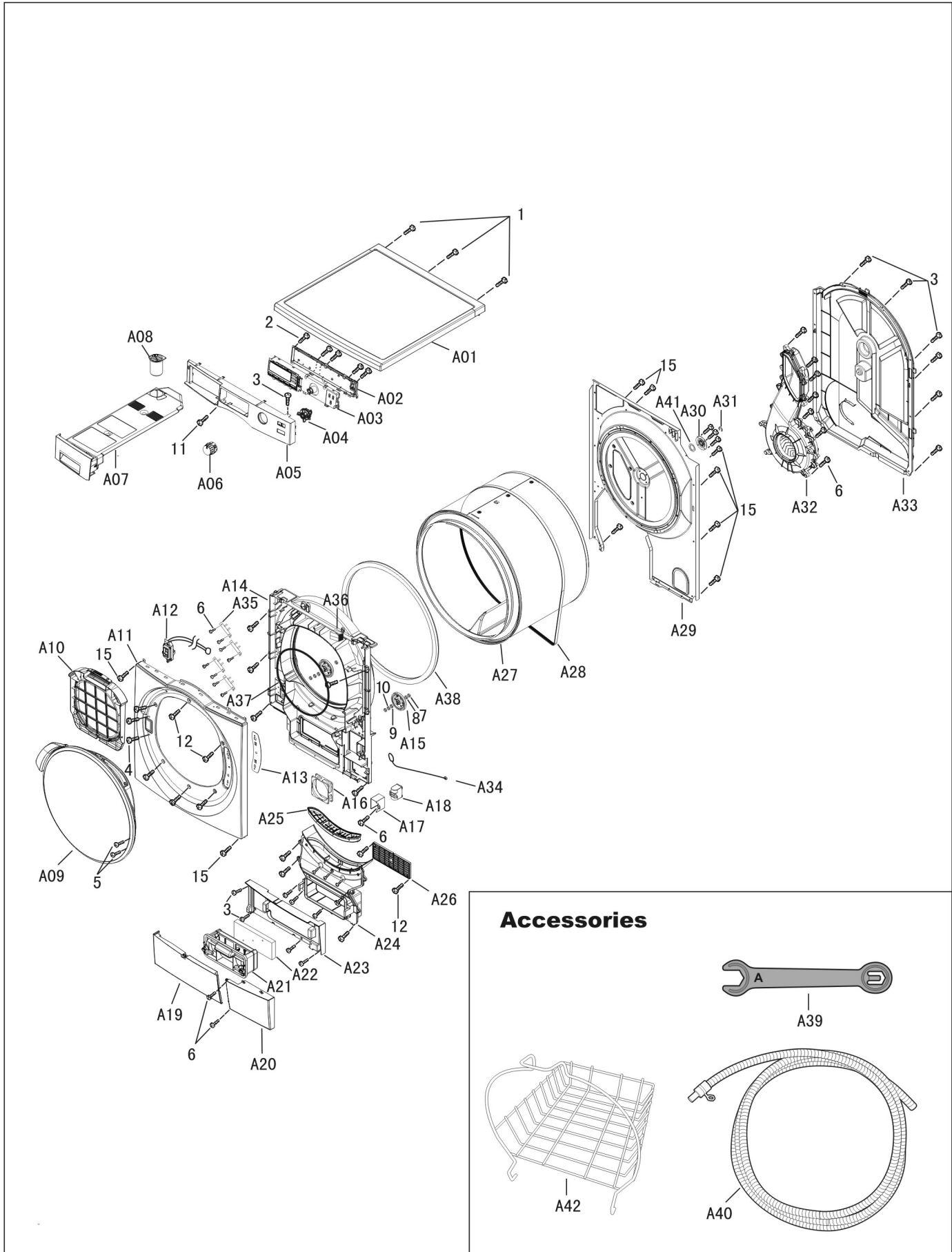
Method to “Operating Test–Service check”

1. Press the power switch to “OFF” .
2. Press and hold both “Drying Level” and “r/min” buttons with one hand.
3. Press the power switch to “ON” .
4. Release your fingers from the buttons which you pressed in step (2) and (3) above.
5. Press the “Drying Level” button within 3 seconds to the desired check contents (Carry out check A. D. L, U, G1, G2, G3 and H)

Number of time the “Drying Level” button is pressed	Process check	Action check	Lamp illumination condition	Action condition
0	A	*Cycle end buzzer (3 times) *Blinking 888 *Auto OFF	Drying iron cupboard extra Surplus time 888	When the end buzzer sounds three times, “888” will simultaneously flash on and off in the remaining time display. and the power will automatically switch off immediately after operation is finished. If other numbers or characters then “888” appear in the remaining time display. Then will be: [002] Abnormal in memory storage (the “Eco lamp” lights up)
1	D	Operate drying function 10 minutes. (The drum & the fan rotates, and ON position of the compressor, both cooling fan for PCB & HP)	Drying iron cupboard extra 10	Press r/min button to change air intake valve: *Incase the Air intake valve is opening (10 sec.), Light up “Gentle Dry” lamp. *Incase the Air intake valve is closing (10 sec.), Light up “Buzzer” lamp. *Incase error data shall not be memorized to the micro processor, display error code “H05” . **Display rotation speed(r/sec.) of the compressor while pressing “Gentle Dry” button, display compressed temp(°C). while pressing “Time” button, display exhaust temp(°C). while pressing “Add Time” button and Display TH3 while pressing “Speed/Eco” button.
2	L	Drying level sensor	Drying iron cupboard extra L	Touch the Drying level sensor with wet cloth. *Sensor-1 is ON position, “Speed” LED lights up; *Sensor-2 is ON position, “Eco” LED lights up.

Number of time the "Drying Level" button is pressed	Process check	Action check	Lamp illumination condition	Action condition
3	U	Dehumidified water pump	Drying iron cupboard extra  Dehumidified water pump on: 	Check up the dehumidified water pump. Press "r/min" button to change dehumidified water pump ON and OFF. *dehumidified water pump is ON position, "Filter" LED lights up, and if there are dehumidified water, "dehumidified water" LED lights up.
4	G1	Error history last 10 times	Drying iron cupboard extra   	Display error history of last 10 times. "E1" shall be displayed initially, and press "r/min" button to show last time, and press twice to display the time before last, and press 3 times to display previous 3 times, and display error code of last 10 times by pressing it, and return to "E1" as initial mode. *Press "Start/Pause" button to clear all error histories.
5	G2	Error history last 3 times	Drying iron cupboard extra   	Indicated error history of last 3 times. "E2" shall be displayed initially. and press "r/min" button to show last time, and press twice to display the time before last, and press it 3 times to display previous 3 times, and return to "E2" as initial mode *It shall be displayed contents of operation when occurred error. while displaying the error code, press "Add Time" button to show the Program, Dried level, Spin speed and Remaining time. **Incase to press the "Anti-crease" button to show operated hours on error operation, and incase to press "Speed/Eco" button to show operated program. ("0" means Cotton Extra Dry, and turn clock wise, "1" means Cupboard Dry Plus)
6	G3	Display contents of drying program which was operated normally last time	Drying iron cupboard extra   	*It shall be displayed contents of drying program which was operated normally last time, press "Add Time" button to show the Program, Dried level, Spin speed, Remaining time at initial stage, Speed/Eco setting, Anti-crease setting, Buzzer setting and Gentle Dry setting. **Incase to press the "Anti-crease" button to show maximum record of operated hours, and incase to press "Speed/Eco" button to show operated program. ("0" means Cotton Extra Dry, and turn clock wise, "1" means Cupboard Dry Plus)
7	H	Display accumulated operation times of drying	Drying iron cupboard extra   	"C" shall be displayed initially, and press "r/min" button to change display of the digit of operation times of drying. Press "r/min" button once shows digit of "thousand-hundred" , and press "r/min" button twice shows digit of "ten-one" .

14.LOCATION OF PART-A



REPLACEMENT PARTS LIST-A

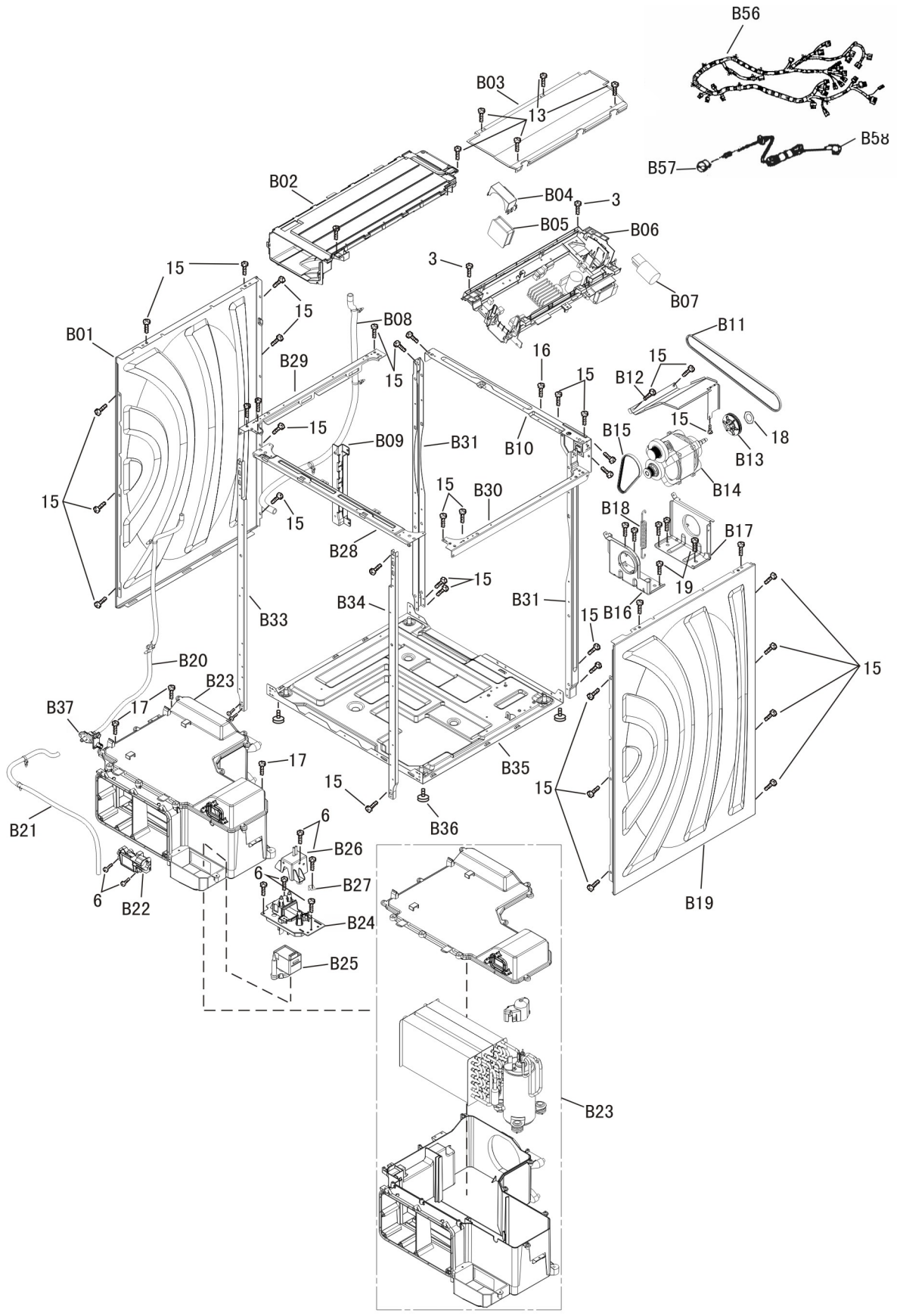
(U):U indicates parts at the remarks that can be replaced by user.

△: Components identified by △ Mark have special characteristics important for safety.

When replacing any of these components use only manufacture's specified parts.

Ref.No	Description	Part.No	Q'ty	Remarks
A01	TOP BOARD	AXW11NB7SR1	1	(U)
A02	CONTROLLER UNIT A	AXW24S-7SR00	1	△
A03	CONTROLLER PLATE	AXW146-4870	1	
A04	KNOB PLATE	AXW336B7SR0	1	
A05	PANEL FACE BOARD UNIT	ANH1J-4870	1	Germany
		ANH1J-4890	1	UK/Holand/Belgium/Sweden/Norway/Danmark/ Poland/Cesko/Hungary/Romania
		ANH1J-4910	1	France
		ANH1J-4930	1	Spain
		ANH1J-4950	1	Italy
A06	COURSE SELECT KNOB	AXW6C-8CW0	1	
A07	WATER CONTAINER	ANH12M-5020	1	(U) Includes A08
A08	DRAIN CAP	ANH253B4870	1	(U)
A09	DOOR UNIT	ANH1G-4870	1	(U)
A10	FLUFF FILTER	ANH2X-4870	1	(U)
A11	BODY B UNIT	ANH102B4870	1	
A12	DOOR SWITCH UNIT	ANH16K-4870	1	△
A13	SUPPORT D	ANH114-4870	1	
A14	DRUM FRONT SUPPORT UNIT	ANH22H- 5020	1	Can used by NH-P80G1 also
A15	IDLER WHEEL UNIT	ANH22D-4870	2	
A16	HP COOLING FAN	L6FAYYYH0242	1	△
A17	CAPACITOR COVER	ANH405-4870	1	
A18	CAPACITOR	AXW403-7S907	1	△
A19	PANEL B	ANH140B4870	1	(U)
A20	PANEL A	ANH130B4870	1	(U)
A21	INNER COVER	ANH3V-4870	1	(U)
A22	FINE FILTER	ANH300-4870	1	(U)
A23	PANEL B INSTALL PLATE	ANH118B4870	1	
A24	FRONT PANEL INSTALL PLATE	ANH2226B4870	1	
A25	FILTER B	ANH226B4870	1	(U)
A26	FILTER FRAME	ANH2205B4870	1	
A27	DRUM A UNIT	ANH22B-4870	1	
A28	V-BELT	ANH412-4870	1	L1918
A29	BACK PANEL	ANH11L-4870	1	
A30	OIL BEARING U	ANH5G-4870	1	
A31	E RING	XUN10V	1	
A32	FAN BOX UNIT	ANH8L-4870	1	
A33	PULLEY COVER	ANH456B4870	1	(U)
A34	TEMPERATURE SENSER	AXW24N-750	1	△
A35	DRY SENSE PLATE	ANH6B-4870	4	△
A36	LED UNIT	ANH6F-4870	1	△
A37	TUB PACKING	ANH875-4870	1	
A38	SEALING PLATE	ANH2242-4870	1	
A39	SPANNER	AXW526-7FH3	1	
A40	DRAIN HOSE UNIT	ANH2E-4870	1	
A41	AXLE INSTALL PLATE	ANH2219-4870	2	
A42	DRYING BASKET	N-DB1	1	SUPPLY FROM JAPAN

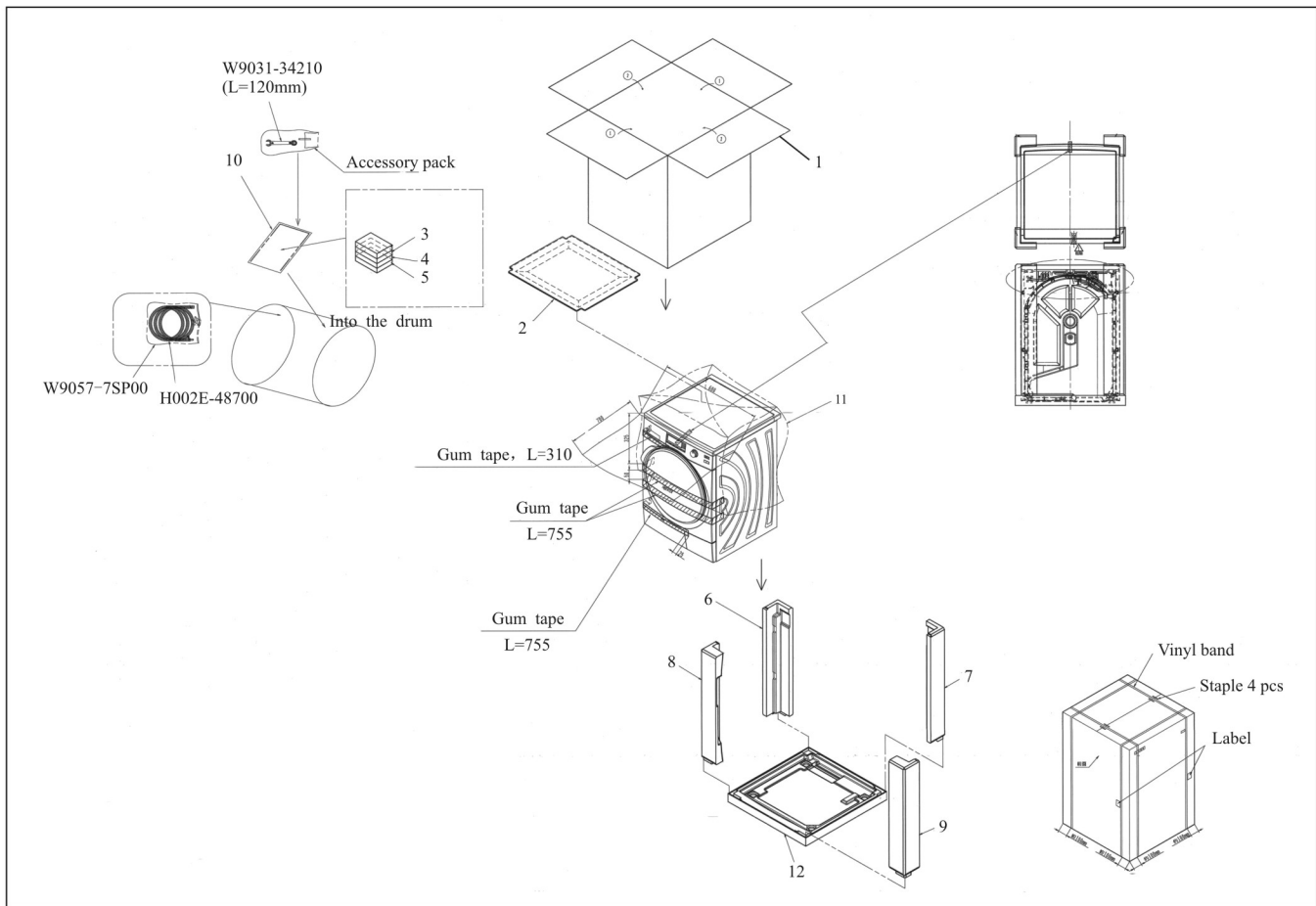
LOCATION OF PART-B



REPLACEMENT PARTS LIST-B

Ref.No	Description	Part.No	Q'ty	Remarks
B01	BODY A(L)	ANH101B4870	1	
B02	NOZZLE SUPPORT UNIT	ANH12L-4870	1	
B03	PC BOARD COVER C	ANH542-4870	1	
B04	FAN SUPPORT	AXW862-7SR5	1	
B05	PCB COOLING FAN	L6FAYYYH0242	1	△
B06	PC BOARD W/COMPONENTS	ANH24C-50206	1	△
B07	NOISE FILTER	AXW2430-0380	1	△
B08	FEED HOSE B UNIT	ANH2P-4871	1	Φ15
B09	HOSE SUPPORT	ANH263-4870	1	
B10	UPPER SUPPORT PLATE	ANH106-4870	1	
B11	V-BELT	ANH412-4872	1	L748
B12	MOTOR COVER	ANH408-4870	1	
B13	MOTOR PULLEY	ANH411-4870	1	
B14	MOTOR	AXW401-75106	1	△
B15	V-BELT	ANH412-4871	1	L330
B16	MOTOR SUPPORT A	ANH307-4870	1	
B17	MOTOR SUPPORT B	ANH308-4870	1	
B18	SPRING	ANH2157-4870	1	
B19	BODY A(R)	ANH101B4871	1	
B20	FEED HOSE B UNIT	ANH2P-4870	1	Φ11
B21	FEED HOSE B UNIT	ANH2P-4872	1	Φ11
B22	AIR INTRODUCTION PETAL	ANH10A-4870	1	△
B23	HEAT PUMP UNIT	ANH23C-4870	1	△
B24	PUMP SUPPORT A	ANH827-4870	1	
B25	WATER PUMP UNIT	ANH8C-4870	1	△
B26	PUMP SUPPORT B	ANH828-4870	1	
B27	MOUNTING PLATE	ANH680-4870	2	
B28	BODY SUPPORT A	ANH111-4870	1	
B29	BODY SUPPORT E(L)	ANH115-4870	1	
B30	BODY SUPPORT E(R)	ANH115-4871	1	
B31	BODY SUPPORT H	ANH122-4870	2	
B33	BODY SUPPORT F(L)	ANH116-4872	1	
B34	BODY SUPPORT F(R)	ANH116-4871	1	
B35	BASE A	ANH301-4870	1	
B36	ADJUSTABLE MOUNT PLATE	AXW3I-7EU0	4	
B37	FEED HOSE JOINT	ANH20T-4870	1	
B56	LEAD WIRE UNIT	ANH14A-4872	1	△
B57	MAGNET RING	TFT-152613N	1	△
B58	POWER CORD	AXW4A-78805	1	UK △
		AXW4A-73209	1	Other △

15.PACKING INSTRUCTIONS



Ref.No	Description	Part.No	Q'ty	Remarks
1	CASE A	ANH9001-5020	1	
2	Upper sheet	AXW9014-7SR0	1	
3	GUARANTEE SERVICE BOOK	ANH9923-7FH5	1	
		ANH9923-7MP2	1	UK
4	OPERATING INSTRUCTIONS	ANH9901-5020	1	Germany
		ANH9901-5030	1	UK
		ANH9901-5040	1	France
		ANH9901-5050	1	Spain
		ANH9901-5060	1	Italy
		ANH9901-5070	1	Holand/Belgium/Sweden/Norway/Danmark/Poland/Cesko/Hungary/Romania
5	SERVICE CENTER LIST	AXW9911-7FH3	1	
6	BODY COVER(L)	ANH9051-4870	1	
7	BODY COVER(R)	ANH9051-4875	1	
8	BODY COVER(L)	ANH9050-4870	1	
9	BODY COVER(R)	ANH9050-4875	1	
10	ACCESSORY PACK	AXW9057-7FH3	1	Operating instructions
	ACCESSORY PACK	AXW9057-7FH1	2	Power cord
11	UPPER COVER	AXW9060-7FH0	1	
12	CASE B	ANH90B-4870	1	

SMALL STANDARDIZED METAL PARTS

Ref.No	Description	Part.No	Q'ty	Remarks
1	SCREW	XTWAXW466J	3	
2	SCREW	XTB4+16CFJ	5	
3	SCREW	XTB4+10FFJ	34	
4	SCREW	XTB4+10CV	2	
5	SCREW	XTBAXW463J	2	
6	SCREW	XTB4+16GFJ	63	
7	NUT	XNGAXW808	2	
8	PLATE	XWA8BV	2	
9	PLATE	XWE8FJ	2	
11	SCREW	XTB4+16CXR	1	
12	SCREW	XTT4+16GU	38	
13	SCREW	XTB4+12BFJ	28	
14	SCREW	XTB4+35BFJ	1	
15	SCREW	XTBAXW437J	3	
16	SCREW	XYN5+C10BN	1	
17	SCREW	XYTWAXW541	3	
18	SCREW	XNGAXW807	1	
19	SCREW	XTBAXW511	6	