

OWNER'S MANUAL

Fan Coil Unit of Four-Way Cassette Type

Original instructions.
Please read this manual carefully and keep it for future reference.
All the pictures in this manual are for illustrations purpose only.

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1. ABOUT THIS DOCUMENTATION

1.1 About This Document

NOTE

Make sure that the user has the printed documentation and ask him/her to keep it for future reference.

Target audience

Authorised installers + end users

Note

This appliance is intended to be used by expert or trained users in shops, in light industry, and on farms, or for commercial and household use by lay persons.

WARNING

Please thoroughly read and ensure that you fully understand the safety precautions (including the signs and symbols) in this manual, and follow relevant instructions during use to prevent damage to health or property.

Documentation set

This document is part of a documentation set. The complete set consists of:

- General safety precautions:
Safety instructions that you must read before installing
- Fan coil unit(s) installation and operation manual:
Installation and operation instructions
- Controller installation and operation manual:
Installation and operation instructions

Please refer to the product manual for other accessories.

Technical engineering data

Latest revisions of the supplied documentation may be available via your dealer.

The original documentation is written in English. All other languages are translations.

1.2 Safety Instructions

Please thoroughly read and ensure that you fully understand the safety precautions (including the signs and symbols) in this manual, and follow relevant instructions during use to prevent damage to health or property.

Safety Signs



DANGER

Indicates a hazard with a high level of risk which, if not avoided, will result in death or serious injury.



WARNING

Indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury.



CAUTION

Indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate injury.



NOTE

Useful operation and maintenance information.

Explanation Of Symbols Displayed On The Unit



CAUTION

This symbol shows that the operation manual should be read carefully.



CAUTION

This symbol shows that a service personnel should be handling this equipment with reference to the installation manual.



CAUTION

This symbol shows that information is available such as the operating manual or installation manual.



CAUTION

Do not use the fan coil unit for other purposes.

In order to avoid any quality deterioration, do not use the unit for cooling precision instruments, food, plants, animals or works of art.

Before cleaning, be sure to stop the operation, turn the breaker off or pull out the supply cord.

Otherwise, an electric shock and injury may result.

In order to avoid electric shock or fire, make sure that an earth leak detector is installed.

Be sure the fan coil unit is grounded.

In order to avoid electric shock, make sure that the unit is grounded and that the earth wire is not connected to gas or water pipe, lightning conductor or telephone earth wire.

Do not operate the fan coil unit with a wet hand.

An electric shock may happen.

Do not touch the heat exchanger fins.

These fins are sharp and could result in cutting injuries.

Do not place items which might be damaged by moisture under the fan coil unit.

Condensation may form if the humidity is above 80%, the drain outlet is blocked or the filter is polluted.

After a long use, check the unit stand and fitting for damage.

If damaged, the unit may fall and result in injury.

To avoid oxygen deficiency, ventilate the room sufficiently if equipment with burner is used together with the fan coil unit.

Arrange the drain hose to ensure smooth drainage.

Incomplete drainage may cause wetting of the building, furniture etc.

Never touch the internal parts of the controller.

Do not remove the front panel. Some parts inside are dangerous to touch, and a machine trouble may happen.

Never expose little children, plants or animals directly to the air flow.

Adverse influence to little children, animals and plants may result.

Do not place appliances which produce open fire in places exposed to the air flow from the unit or under the indoor unit.

It may cause incomplete combustion or deformation of the unit due to the heat.

Do not install the fan coil unit at any place where flammable gas may leak out.

If the gas leaks out and stays around the fan coil unit, a fire may break out.

The appliance should not be used by children without supervision.



DISPOSAL: Do not dispose this product as unsorted municipal waste. Collection of such waste separately for special treatment is necessary.

- Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities.
- Contact your local government for information regarding the collection systems available.
- Don't install the air conditioner in salty air surrounding (near the coast).

If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being

2. PARTS NAMES

The air conditioner consists of the indoor unit, the outdoor unit, the connecting pipe and the remote controller.

■ Function indicators on indoor unit display panel

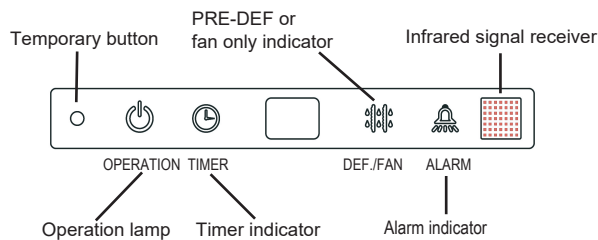


fig.1 Display panel

This function is used to operate the unit temporarily in case you misplace the remote controller or its batteries are exhausted. Two modes including AUTO and FORCED COOL can be selected through the TEMPORARY BUTTON on the air-in grill control box of the fan coil unit. Once you push this button, the fan coil unit will run in such order: AUTO, FORCED COOL, OFF, and back to AUTO.

- 1 AUTO**
The OPERATION lamp is lit, and the fan coil unit will run under AUTO mode. The remote controller operation is enabled to operate according to the received signal.
- 2 FORCED COOL**
The OPERATION lamp flashes, the fan coil unit will turn to AUTO after it is enforced to cool with a wind speed of HIGH for 30 minutes. The remote controller operation is disabled.
- 3 OFF**
The OPERATION lamp goes off. The fan coil unit is OFF while the remote controller operation is enabled.

NOTE

This manual does not include Remote Controller Operations, see the<<Remote Controller Owner's manual>> packed with the unit for details.

3. OPERATION RANGE

Use the system in the following temperature for safe and effective operation.

Table 5-1

Temperature Mode	Room temperature	water inlet temperature
Cooling operation	17 °C to 32 °C	3 °C to 20 °C
optional	0 °C to 30 °C	30 °C to 75 °C

NOTE

- 1 If fan coil unit is used outside the above conditions, it may cause the unit to function abnormally.
- 2 The phenomenon is normal that the surface of air conditioning may condense water when the relative larger humidity in room, please close the door and window.
- 3 Optimum performance will be achieved within these operating temperature range.
- 4 In heating mode,the temperature of the inlet water must be under 75 °C.
- 5 Water system operating pressuer: Max: 1.6 MPa, Min: 0.15 MPa.

4. HINTS FOR ECONOMICAL OPERATION

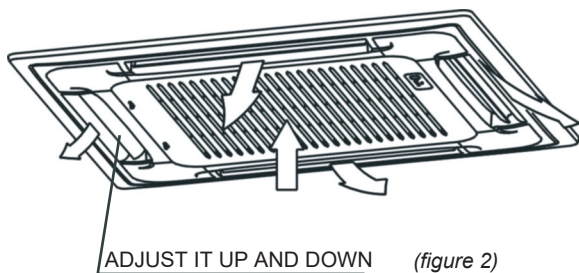
The following should be noticed to ensure an economical operation.

- Adjust the air flow louver properly and avoid direct air flow to room inhabitants.
- Adjust the room temperature properly for a comfortable environment. Avoid excessive heating or cooling.
- Prevent direct sunlight during cooling operation by using curtains or blinds.
- Ventilate often. Extended use requires special attention to ventilation.
- Keep doors and windows closed. If the doors and windows remain open, air will flow out of your room causing a decrease in the cooling or heating effect.
- Never place objects near the air inlet or the air outlet of the unit. It may cause deterioration in the effect or stop the operation.
- Set the timer.
- If you don't plan to use the unit for a long time, please take the batteries from the remote controller. When the power is on, some energy will be consumed,even if the fan coil unit isn't in operation. So please disconnect the power to save energy.

- Keep the fan coil unit and remote controller at least 1 m away from televisions, radios, stereos, and other similar equipment. Failing to do so may cause static or distorted pictures.
- A dirty air filter will reduce cooling or heating efficiency, please clean it once two weeks.

5. ADJUSTING AIR FLOW DIRECTION

While the unit is in operation, you can adjust the air flow louver to change the flow direction and naturalize the room temperature evenly. Thus you can enjoy it more comfortably.



- **Set the air flow direction.**
Press the SWING button to adjust the louver to the desired position and press this button again to maintain the louver at this position.
- **Adjust the air flow direction automatically.**
Press the SWING button, the louver will swing automatically. While this function is set, the swing fan of fan coil unit runs; otherwise, the swing fan doesn't run. The swing scale of every side is 30 °C. When the air conditioner isn't in operation (including when TIMER ON is set), the SWING button will be invalid.

6. MAINTENANCE



CAUTION

Before you clean the fan coil unit, be sure the power supply is off.

Check if the wiring is not broken off or disconnected.

Disconnect the power supply before cleaning and maintenance. Use dry cloth to clean the unit.

A wet cloth may be used to clean the fan coil unit if it is very dirty.

Never use a damp cloth on the remote controller.

Do not use a chemically-treated duster for wiping or leave such material on the unit for long. it may damage or fade the surface of the unit.

Do not use benzine, thinner, polishing powder, or similar solvents for cleaning. These may cause the plastic surface to crack or deform.

Maintenance after a long stop period

(eg. at the beginning of the season)

Check and remove everything that might be blocking inlet and outlet vents of fan coil unit .

Clean air filters and casings of fan coil unit.

Refer to "Cleaning the air filter" for details on how to proceed and make sure to install cleaned air filters back in the same position.

Turn on the power at least 12 hours before operating the unit in order to ensure smoother operation. As soon as the power is turned on, the remote controller displays appear.

Maintenance before a long stop period

(eg. at the end of the season)

Let the fan coil unit run in fan only operation for about half a day in order to dry the interior of the units.

Clean air filters and casings of fan coil unit. Refer to "Cleaning the air filter" for details on how to proceed and make sure to install cleaned air filters back in the same position.

Cleaning the air filter

The air filter can prevent the dust or other particulate from going inside .In case of blockage of the filter , the working efficiency of the air conditioner may greatly decrease . Therefore , the filter must be cleaned once two weeks during long time usage.

If the fan coil unit is installed in a dust place , clean the the air filter frequent.

If the accumulated dust is too heavy to be cleaned , please replace the filter with a new one(replaceable air filter is an optional fitting).

1 Open the air-in grill

Push the grill switches towards the middle simultaneously as indicated in *figure 3*. Then pull down the air-in grill.

The control box cables ,which are originally connected with the main body electrical terminators must be pulled off before doing as indicated above.

2 Take out the air-in grill (together with the air filter shown in *figure 4*).

Pull the air-in grill down at 45 °C and lift it up to take out the grill.

3 Dismantle the air filter.

4 Clean the air filter

Vacuum cleaner or pure water may be used to clean the air filter.If the dust accumulation is too heavy , please use soft brush and mild detergent to clean it and dry out in cool place

- The air-in side should face up when using vacuum cleaner. (See Fig. 5)
- The air-in side should face down when using water. (See Fig. 6)



CAUTION

Do not dry out the air filter under direct sunshine or with fire.

- 5 Re-install the air filter.
- 6 Install and close the air-in grill in the reverse order of step 1 and 2 and connect the control box cables to the corresponding terminators of the main body .

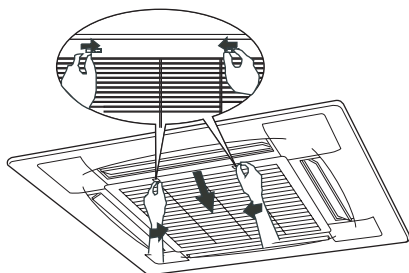


fig.3

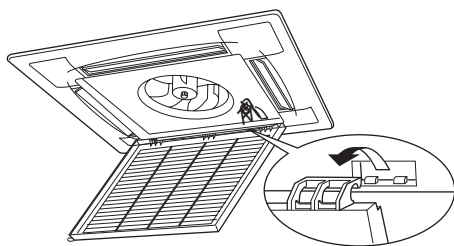


fig.4

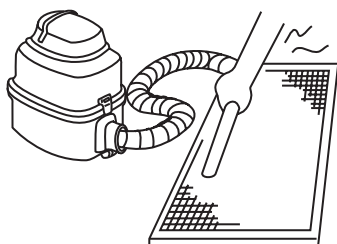


fig.5

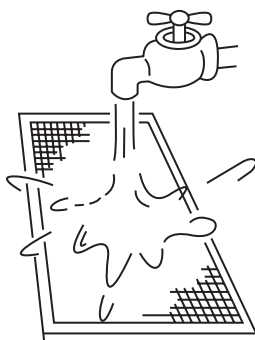


fig.6

7. FOLLOWING SYMPTOMS ARE NOT FAN COIL UNIT TROUBLES

Symptom 1: The system does not operate

- The fan coil unit does not start immediately after the ON/OFF button on the remote controller is pressed.
If the operation lamp does not light, the system is in abnormal condition. or there is no problem with the unit.
- If the operation lamp and the "PRE-DEF indicator(cooling and heating type) or fan only indicator(cooling only type)" light, it means you choose the heating model, When just starting, the fan coil unit appears "anti cold wind" protection because of its overflow outlet temperature.

Symptom 2: Change into the fan mode during cooling mode

- When the room temperature drops to the set temperature, the fan coil unit changes to fan mode; when the temperature rises up, the rotate speed of the fan will rise too, It is same in the heating mode.

Symptom 3: White mist comes out of a unit

- When humidity is high during cooling operation If the interior of an fan coil unit is extremely contaminated, the temperature distribution inside a room becomes uneven. It is necessary to clean the interior of the fan coil unit. Ask your dealer for details on cleaning the unit. This operation requires a qualified service person.

Symptom 4: Noise of fan coil unit cooling

Symptom 4.1: fan coil unit

- A continuous low "shah" sound is heard when the system is in cooling operation or at a stop.
When the drain pump (optional accessories) is in operation, this noise is heard.
- A "pishi-pishi" squeaking sound is heard when the system stops after heating operation.
Expansion and contraction of plastic parts caused by temperature change make this noise.

Symptom 4.2: fan coil unit, outdoor unit

- A continuous low hissing sound is heard when the system is in operation.
This is the sound of water flowing through both fan coil unit and outdoor units.
- A hissing sound which is heard at the start or immediately after stopping operation .
This is the noise of water caused by flow stop or flow change.

Symptom 5: Dust comes out of the unit

- When the unit is used for the first time in a long time.
This is because dust has gotten into the unit.

Symptom 6: The units can give off odours

- The unit can absorb the smell of rooms, furniture, cigarettes, etc., and then emit it again.

8. TROUBLESHOOTING

8.1. Troubles and causes of air conditioner

If one of the following malfunctions occur, stop operation, shut off the power, and contact with your dealer.

- The operation lamp is flashing rapidly (five times per second), you disconnect the unit with the power and then connect the unit with the power again after two or three minutes but the lamps still flash.
- Switch operations are erratic.
- The fuse is blown frequently or the circuit breaker is tripped frequently.
- Foreign matter or water has fallen inside the fan coil unit.
- Water leaks from the fan coil unit.
- Other malfunctions.

If the system does not properly operate except the above mentioned cases or the above mentioned malfunctions is evident, investigate the system according to the following procedures. (see in table 8-1)

table 8-1

Symptoms	Causes	Solution
Unit does not start	• Power failure. • Power switch is off. • Fuse of power switch may have burned. • Batteries of remote controller exhausted or other problem of controller.	• Wait for the comeback of power. • Switch on the power. • Replace the fuse. • Replace the batteries or check the controller.
Air flowing normally but completely can't cooling	• Temperature is not settled correctly.	• Set the temperature properly.
Units start or stop frequently	• Air or no concreting gas in the watering circuit. • three-way valve is malfunction. • Voltage is too high or too low. • System circuit is blocked. • Temperature is not settled correctly.	• Vacuum. • Maintenance or change three-way valve. • Install manostat. • Find reasons and solution.
Low cooling effect	• Fan coil unit heat exchanger is dirty. The air filter is dirty. • Inlet/outlet of fan coil unit is blocked. • Doors and windows are open Sunlight directly shine. • Too much heat resource. • Leakage of water.	• Clean the heat exchanger. • Clean the air filter. • Eliminate all dirties and make air smooth. • Close doors and windows. • Make curtains in order to shelter from sunshine. • Reduce heat source. • AC cooling capacity reduces (normal). • Check leakage.
Low heating effect	• Doors and windows not completely closed. • Leakage of water.	• Use heating device. • Close doors and windows. • Check leakage.

8.2 Troubles and causes of remote controller

Before asking for serving or repairing, check the following points. (see in table 8-2)

table 8-2

Symptoms	Causes	Solution
The fan speed can not be changed.	Check whether the MODE indicated on the display is "AUTO"	When the automatic mode is selected, the fan coil unit will automatically change the fan speed.
	Check whether the MODE indicated on the display is "DRY"	When dry operation is selected, the fan coil unit automatically change the fan speed. The fan speed can be selected during "COOL", "FAN ONLY", and "HEAT"
The remote controller signal is not transmitted even when the ON/OFF button is pushed.	Check whether the batteries in the remote controller are exhausted.	The power supply is off.
The TEMP. indicator does not come on.	Check whether the MODE indicated on the display is FAN ONLY	The temperature cannot be set during FAN mode.
The indication on the display disappears after a lapse of time.	Check whether the timer operation has come to an end when the TIMER OFF is indicated on the display.	The fan coil unit operation will stop up to the set time
The TIMER ON indicator goes off after a lapse of certain time.	Check whether the timer operation is started when the TIMER ON is indicated on the display.	Up to the set time, the fan coil unit will automatically start and the appropriate indicator will go off.
No receiving tone sounds from the indoor unit even when the ON/OFF button is pressed.	Check whether the signal transmitter of the remote controller is properly directed to the infrared signal receiver of the fan coil unit when the ON/OFF button is pressed.	Directly transmit the signal transmitter of the remote controller to the infrared signal receiver of the fan coil unit, and then repeatedly push the ON/OFF button twice.

8.3 Malfunctions and malfunction code

If anything happens like the situation described below, please shut off the power supply of the unit and contact with the customer service center immediately.

NO.	Malfunction	running lamp	timer lamp	defrosting lamp	alarm lamp	alarm lamp
1	Room temperature sensor checking channel is abnormal	×	☆	×	×	E2
2	Evaporator sensor checking channel is abnormal	☆	×	×	×	E3/E4
3	EEPROM malfunction	☆	☆	×	×	E7
4	Water-level switch malfunction	×	×	×	☆	E8

(× Extinguish, ☆ Flash at 5Hz)

8.4 Parameters

MODE:MKA-600RA			
Information to identify the model(s)to which the information relation:			
Item	Symbol	Value	Unit
Cooling capacity(sensible)	<i>Prated</i>	4.33	kW
Cooling capacity(latent)	<i>Prated</i>	0.93	kW
Heating capacity	<i>Prated</i>	6.07	kW
Total electric power input	<i>Pelec</i>	0.13	kW
Sound power level(per speed setting,if applicable)	<i>LWA</i>	56/51/45	dB
contact details			

MODE:MKA-750RA			
Information to identify the model(s)to which the information relation:			
Item	Symbol	Value	Unit
Cooling capacity(sensible)	<i>Prated</i>	4.68	kW
Cooling capacity(latent)	<i>Prated</i>	0.90	kW
Heating capacity	<i>Prated</i>	6.67	kW
Total electric power input	<i>Pelec</i>	0.14	kW
Sound power level(per speed setting,if applicable)	<i>LWA</i>	58/54/48	dB
contact details			

MODE:MKA-850RA			
Information to identify the model(s)to which the information relation:			
Item	Symbol	Value	Unit
Cooling capacity(sensible)	<i>Prated</i>	5.10	kW
Cooling capacity(latent)	<i>Prated</i>	0.77	kW
Heating capacity	<i>Prated</i>	7.64	kW
Total electric power input	<i>Pelec</i>	0.17	kW
Sound power level(per speed setting,if applicable)	<i>LWA</i>	64/58/56	dB
contact details			

MODE:MKA-950RA			
Information to identify the model(s)to which the information relation:			
Item	Symbol	Value	Unit
Cooling capacity(sensible)	<i>Prated</i>	5.40	kW
Cooling capacity(latent)	<i>Prated</i>	0.69	kW
Heating capacity	<i>Prated</i>	7.92	kW
Total electric power input	<i>Pelec</i>	0.19	kW
Sound power level(per speed setting,if applicable)	<i>LWA</i>	65/63/57	dB
contact details			

MODE:MKA-1200RA			
Information to identify the model(s)to which the information relation:			
Item	Symbol	Value	Unit
Cooling capacity(sensible)	<i>Prated</i>	5.55	kW
Cooling capacity(latent)	<i>Prated</i>	1.51	kW
Heating capacity	<i>Prated</i>	8.02	kW
Total electric power input	<i>Pelec</i>	0.183	kW
Sound power level(per speed setting,if applicable)	<i>LWA</i>	72/64/60	dB
contact details			

MODE:MKA-1500RA			
Information to identify the model(s)to which the information relation:			
Item	Symbol	Value	Unit
Cooling capacity(sensible)	<i>Prated</i>	7.47	kW
Cooling capacity(latent)	<i>Prated</i>	2.21	kW
Heating capacity	<i>Prated</i>	10.96	kW
Total electric power input	<i>Pelec</i>	0.218	kW
Sound power level(per speed setting,if applicable)	<i>LWA</i>	75/58/54	dB
contact details			

MODE:MKA-V600FA			
Information to identify the model(s)to w hich the information relation:			
Item	Symbol	Value	Unit
Cooling capacity(sensible)	<i>Prated</i>	4.145	kW
Cooling capacity(latent)	<i>Prated</i>	0.807	kW
Heating capacity	<i>Prated</i>	6.148	kW
Total electric power input	<i>Pelec</i>	0.055	kW
Sound power level(per speed setting,if applicable)	<i>LWA</i>	54/49/43	dB
contact details			

MODE:MKA-V750FA			
Information to identify the model(s)to w hich the information relation:			
Item	Symbol	Value	Unit
Cooling capacity(sensible)	<i>Prated</i>	4.432	kW
Cooling capacity(latent)	<i>Prated</i>	0.746	kW
Heating capacity	<i>Prated</i>	6.519	kW
Total electric power input	<i>Pelec</i>	0.067	kW
Sound power level(per speed setting,if applicable)	<i>LWA</i>	56/51/45	dB
contact details			

MODE:MKA-V850FA			
Information to identify the model(s) to which the information relation:			
Item	Symbol	Value	Unit
Cooling capacity(sensible)	<i>Prated</i>	4.405	kW
Cooling capacity(latent)	<i>Prated</i>	0.724	kW
Heating capacity	<i>Prated</i>	6.684	kW
Total electric power input	<i>Pelec</i>	0.075	kW
Sound power level(per speed setting,if applicable)	<i>LWA</i>	57/51/48	dB
contact details			

MODE:MKA-V950FA			
Information to identify the model(s) to which the information relation:			
Item	Symbol	Value	Unit
Cooling capacity(sensible)	<i>Prated</i>	4.607	kW
Cooling capacity(latent)	<i>Prated</i>	0.699	kW
Heating capacity	<i>Prated</i>	6.736	kW
Total electric power input	<i>Pelec</i>	0.086	kW
Sound power level(per speed setting,if applicable)	<i>LWA</i>	58/53/50	dB
contact details			

MODE:MKA-V1200FA			
Information to identify the model(s) to which the information relation:			
Item	Symbol	Value	Unit
Cooling capacity(sensible)	<i>Prated</i>	6.678	kW
Cooling capacity(latent)	<i>Prated</i>	1.306	kW
Heating capacity	<i>Prated</i>	9.746	kW
Total electric power input	<i>Pelec</i>	0.114	kW
Sound power level(per speed setting,if applicable)	<i>LWA</i>	60/56/54	dB
contact details			

MODE:MKA-V1500FA			
Information to identify the model(s) to which the information relation:			
Item	Symbol	Value	Unit
Cooling capacity(sensible)	<i>Prated</i>	6.852	kW
Cooling capacity(latent)	<i>Prated</i>	1.186	kW
Heating capacity	<i>Prated</i>	9.930	kW
Total electric power input	<i>Pelec</i>	0.125	kW
Sound power level(per speed setting,if applicable)	<i>LWA</i>	61/55/50	dB
contact details			

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16126200A09677 V1.4

版本更改说明（此页不用做菲林）

印刷技术要求

材质	双胶纸80g
规格	210*297
颜色	黑白印刷
其他	/

设计更改记录表

版本升级	更改日期	更改内容	更改页面 (印刷页码)	更改人
V1.0升级到V1.1	随基准升级	随基准升级而升级（2019.11.1）		
V1.1-1.2	随基准升级	修改第6页的故障代码表。更改材质为80g	曾佑艳，2021.1.5	
V1.2-1.3	随基准升级	更新第6页的故障代码表。梁贤玲	2021.7.8	
V1.3-V1.4	2024.5.15	随基准升级		蓝翠怡