

9K & 12K BTU ROOFTOP AIR CONDITIONER

MODEL: FACR09SM-PS/FACR12SM-PS/FACTRCM-PS
LIPPERT NO.: 2021132274/2022107892/ 2021132281

USER MANUAL



Product picture for reference only

Warning: This manual must be carefully read and understood before installation, adjustment, repair or maintenance. The equipment must be installed by qualified technicians.
Transformation of this product is an extremely dangerous operation, which may lead to personal injury or property loss.
Important: please keep this manual with the product.

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OVERVIEW

Safety Instructions

This manual, provided by the manufacturer, is part of the air conditioner, which must be read by users carefully. The information provided in the instructions, if correctly observed, can ensure the correct use of the machine and help users eliminate or reduce the risk of accidents and injuries.

⚠ Safety Symbol

This is a safety warning sign. When you see this sign in this manual, the corresponding contents may cause personal injury, so you must follow the recommended preventive measures and safe operation instructions.

Sign:

WARNING or **CAUTION** signs are used simultaneously, which indicate the potential risk level.

⚠ WARNING

Indicate a potentially dangerous situation that may lead to death or serious injury.

⚠ NOTE

Indicate a potentially dangerous situation, which may lead to minor or moderate injury.

⚠ CAUTION

Indicate a potentially dangerous situation, which may cause property damage.

Installation Environment of Air Conditioner

- It can be installed during the production or after the completion of RV.
- The air conditioner can only be installed horizontally on the top of the RV.
- The minimum spacing between rafters and joists on the roof structure is 15¼" (400mm).
- The minimum thickness of the roof of RV is 1" (26mm) and the maximum thickness is 3⅞" (100mm).
- When the roof thickness is greater than 3⅞" (100mm), additional air duct is required for connection.

Introduction of Air Conditioner

The design and installation of this machine is suitable for RV to improve its internal temperature and provide a comfortable environment. It can cool the RV when it's hot and warm up the RV when it's cold. Its temperature can be adjusted in the two environments.

User Guide

The performance of air conditioner is related to the heating condition of insulation box of RV itself. Users can take some preventive measures to reduce heat entry, so as to improve

the refrigeration performance of air conditioning equipment. When outdoor temperature is high, the following methods can be adopted to reduce the heat entry of RV and improve work efficiency:

- Park the RV in a cool place.
- Strengthen thermal insulation of the compartment, remove or block the opening in the vehicle, and block the window with shade curtains (shutters or hanging curtains).
- Close doors and windows or avoid frequent opening and closing of them.
- Avoid using heating devices inside the vehicle. Turn on the air conditioner in advance to achieve better effect. When the indoor or outdoor temperature is high, setting the air conditioner in cooling mode and turning on high wind speed will bring the performance of air conditioner into full play.

NOTE: During the use of this product, due to the great change of air temperature in the vehicle, when the temperature drops rapidly, part of condensate will adhere to the surface of objects near the air outlet, which is a normal phenomenon. After the air conditioner works normally for a certain period, it will be automatically dried and detached from the surface of objects. Therefore, when the air conditioner works, please close the doors and windows as much as possible to reduce the coagulation of water vapor on the surface of objects inside the vehicle.

The manufacturer will not be responsible for any damage arising from condensation on the ceiling or the surface of other objects caused by the condensate of this product.

Main Parameters

	FACR09SM-PS	FACR12SM-PS
Rated cooling capacity	9000BTU	12000BTU
Rated heating capacity	9500BTU	12500BTU
Power supply	220-240 VAC/ 50Hz	
Compressor	Running current - 4.2A	Running current - 5.5A
	Locked -rotor current - 22.5A	Locked -rotor current - 28A
Rated cooling power	1000W	1300W
Rated heating power	800W	1060W
Air volume (high speed)	490m³/h	480m³/h
Refrigerant (R 410 A)	620g	740g
Cable standard	12AWG Copper wire with the length of no more than 8m	
Circuit protection	20A safety wire or fuse	

NOTE:

- Please use the connecting wires complying with the national regulations.
- During model selection of the generator, the total power consumption of RV must be considered.
Tip: the generator will lose power due to high altitude and lack of maintenance.
- Circuit protection: please use leakage circuit breaker all the time.

INSTALLATION INSTRUCTIONS

Precautions

Please read the installation and operation instructions carefully before the installation and use of this product. The manufacturer will not be liable for any loss or injury caused by the noncompliance with this manual.

- The installation must comply with national electrical codes regulations or industry standards.
- Without manufacturer's authorization, this product shall not be equipped with any equipment or accessory.
- This product must be installed and maintained by qualified personnel.

Installation Position

Preparation for Installation

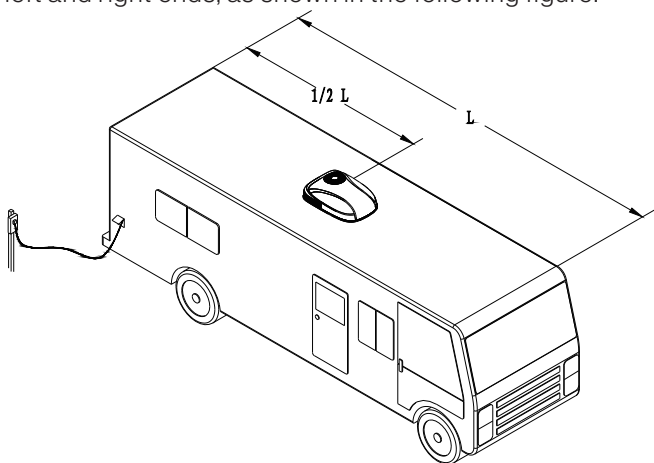
This product is installed on the roof of RV. When determining your cooling requirements, the following points should be considered:

1. Size of RV.
2. Window area of RV (the larger the area, the more heated).
3. Thickness and thermal insulation performance of insulating materials in compartment plate and roof.
4. Geographical location where the RV is used by users.

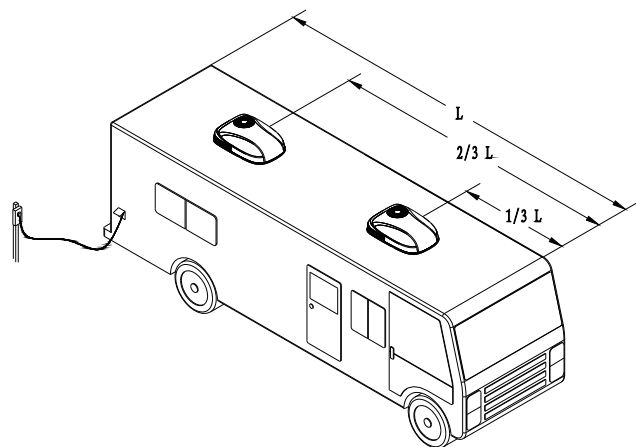
Selection of Installation Position:

This product should be installed on the existing roof vent. There is usually a $14\frac{1}{4}" \times 14\frac{1}{4}" + \frac{1}{8}"$ (362 x 362mm + 3mm) opening on the roof after the vent is removed. When there is no vent on the roof or this product needs to be installed in other positions, it is recommended to take the following measures:

1. For the installation of a single air conditioner, the air conditioner should be installed at a position slightly ahead of the center point (as viewed from the head of the vehicle) and at the center point of left and right ends, as shown in the following figure:

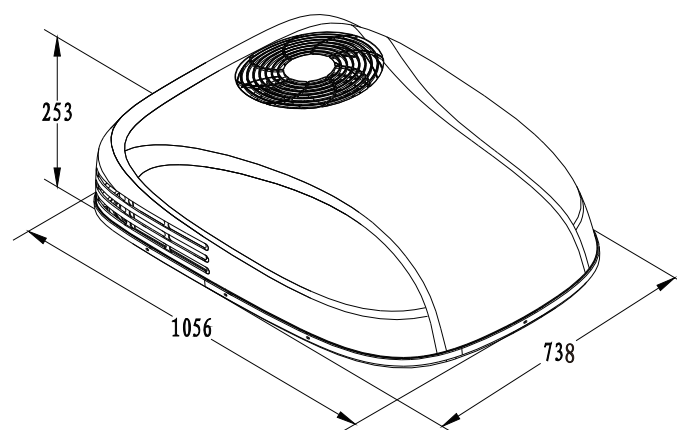


2. For the installation of two air conditioners, the air conditioners should be installed at $\frac{1}{3}$ and $\frac{2}{3}$ positions away from the front end of RV respectively, and at the center point of left and right ends, as shown in the following figure:

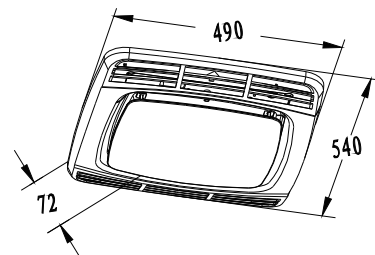


- It's best to install this product horizontally (subject to the standard that the RV stops on a horizontal surface) with a maximum gradient of not exceeding 15°.
- After the installation position is determined, it is required to check whether there are obstacles in the installation area, and the distance between the back of vehicle body and other roof equipment should be at least 18" (457mm).
- When the RV is moving, the top must be able to support heavy objects weighing 60kg. Generally, the static load design of 100kg can meet this requirement.
- Check whether there are obstacles (i.e., door openings, partition frames, curtains, ceiling fixtures, etc.) that hinder the installation of inner panel of the air conditioner.
- The overall dimensions of each outdoor unit and panel are as follows:

Outdoor unit



Panel



Preparation for Installation

Disassembly of Roof Vent

1. Unscrew the screws and remove the vent.
2. Remove all joint fillers at the opening.
3. Seal all screw holes and joints at the roof washer, and use excellent all-weather sealant to ensure the sealing effect.

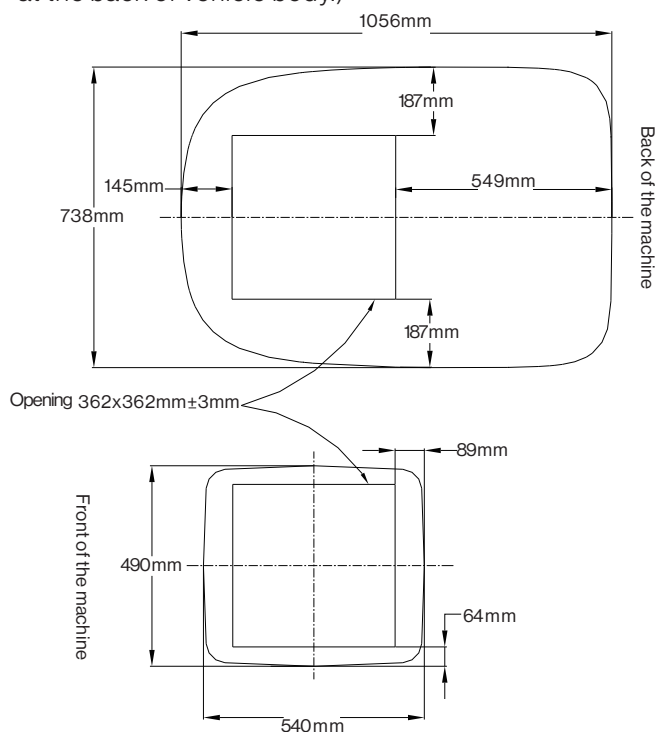
New Roof Opening (not the Installation of Vent)

- Cut a $14\frac{1}{4}" \times 14\frac{1}{4}" + \frac{1}{8}"$ (362 x 362mm + 3mm) opening on the roof of RV, which must be located between the roof reinforcements and must pass through the roof and ceiling of the RV.

⚠ WARNING

There may be wiring between the roof and ceiling. The 220V AC power supply must be cut off before installation. Failure to follow this instruction may result in electric shock and further cause death and personal injury.

- Mark a $14\frac{1}{4}" \times 14\frac{1}{4}" + \frac{1}{8}"$ (362 x 362mm + 3mm) square on the roof and cut an opening carefully;
- Cut a matching hole on the ceiling based on the roof opening as shown in the following figure. (There should be no obstacle within a minimum distance of 18" (457mm) at the back of vehicle body.)



Notes for Hole Opening

- If the opening exceeds $14\frac{3}{8}" \times 14\frac{3}{8}"$ (365x365mm), gaskets must be installed.
- If the opening exceeds $14\frac{1}{8}" \times 14\frac{1}{8}"$ (358x358mm), the opening must be enlarged.

Wiring Requirements

- The wiring method must comply with all national wiring regulations.
- Fuse or circuit breaker should be installed and it should be well grounded. Lead out a 2.5m² copper cable from

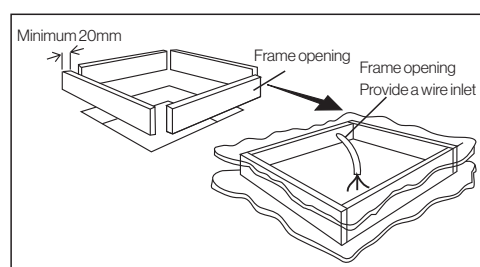
the circuit breaker to the front position of the roof opening. The power line must be located on a separate 20A delay-action circuit breaker.

- Ensure that the wire extends into the roof opening by at least 380mm, which can facilitate the installation of air conditioning equipment;
- After the ventilator is removed, if the size of wire left is appropriate and the fuse specification is also appropriate, it can be used;

The wire entering the opening should be protected to avoid damage.

Opening Treatment

- The opening must be adequately supported, and the roof interlayer should be filled with insulating materials. To prevent resonance caused by air in the upper interlayer, it is required to seal the periphery with battens with a thickness of $\frac{3}{4}"$ (20mm) or more, and provide a wire inlet for the power line as shown in the following figure:



- The $14\frac{1}{4}" \times 14\frac{1}{4}" + \frac{1}{8}"$ (362 x 362mm + 3mm) roof opening is an integral part of the return air duct and must be polished according to industry standards.

⚠ NOTE

The installation personnel of air conditioning equipment shall be responsible for ensuring structural integrity of the roof of RV. Do not create a low-lying place where water will accumulate on the roof.

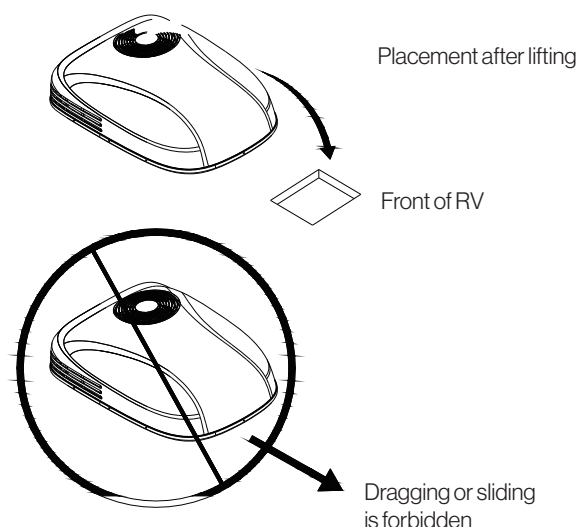
Otherwise, stagnant water around may seep into the vehicle, causing damage to this product and RV.

Placement of Air Conditioner on the Roof

⚠ NOTE

The heaviest outdoor unit of this product weighs about 45Kg. To prevent damage to the air conditioning equipment, please lift this product to the roof with a crane.

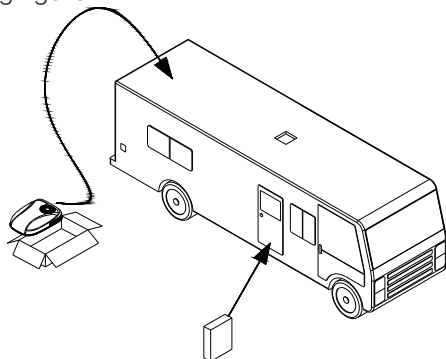
- Take out the outdoor unit of air conditioner in the carton.
- Place the outdoor unit of air conditioner on the roof.
- Lift the equipment (do not drag it) based on the box sponge of air conditioner, and place it above the prepared opening with the condenser coil facing the rear of RV, as shown in the following figure:



⚠ NOTE

It is forbidden to drag the air conditioner, which will damage the box sponge at the bottom and further result in water leakage caused by untight sealing of the sponge after installation.

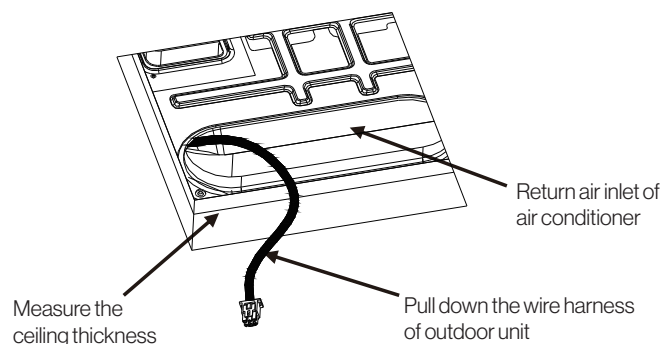
4. Install the panel assembly into the RV. The panel assembly contains fasteners for the installation of air conditioner, which will be used inside the RV, as shown in the following figure:



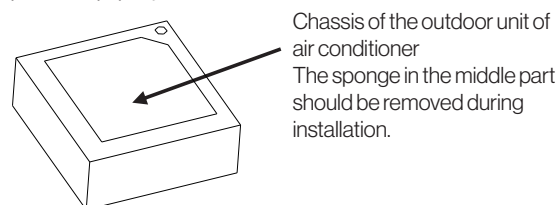
5. In case any deviation is found at the position of outdoor unit on the roof during panel installation, the outdoor unit of air conditioner can be finely adjusted internally through the mounting hole (the box sponge on the roof must be aligned with the 14 $\frac{1}{8}$ " x 14 $\frac{1}{8}$ " (362x362mm) square hole).

Installation of Air Duct and Top Fixing Plate

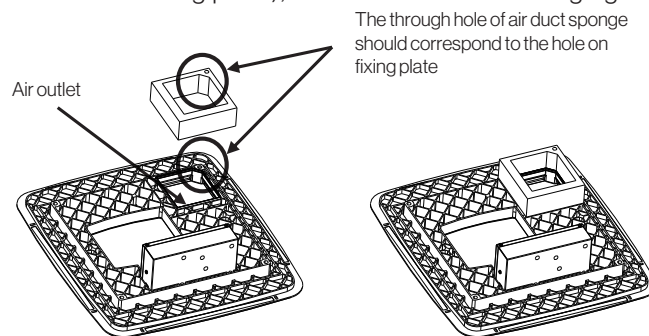
1. Take out the panel and accessories for installation in the carton;
2. Reach into the return air inlet of air conditioner and pull down the wire harness of outdoor unit of the air conditioner (heat pump model also has four-way valve connecting wire and sensor lead, and electric heating model also has electric heating connecting wire) for the convenience of subsequent connection, as shown in the following figure:



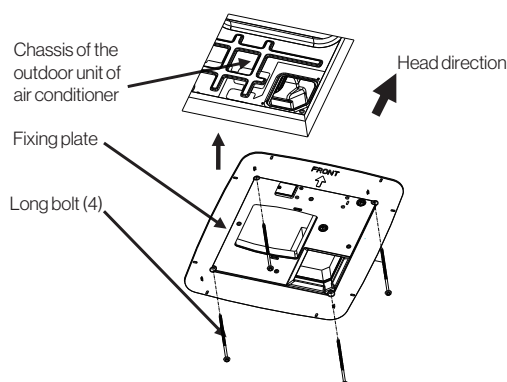
3. Measure the thickness from ceiling to roof to select the appropriate air duct sponge:
 - Air duct sponge (including 3 thickness specifications, i.e., 15mm, 30mm and 45mm)
NOTE: Air duct sponge in the middle part is to keep the sponge from deformation, which should be removed during installation.
 - If the distance is 26-30mm, choose the air duct sponge with a thickness of 15mm;
 - If the distance is 30-40mm, choose the air duct sponge with a thickness of 30mm;
 - If the distance is 40-60mm, choose the air duct sponge with a thickness of 45mm;
 - If the distance is greater than 60mm, the air duct sponges with a thicknesses of 15mm, 30mm and 45mm shall be used in a combined manner according to the actual situation;
 - If the distance is greater than 100mm, an optional pipe joint should be used.



4. Select the correct air duct sponge, remove the middle part, and paste it on the fixing plate along the air outlet (the through hole on the sponge should correspond to the hole on fixing plate), as shown in the following figure:



5. Make the arrow on the fixing plate towards the head of the RV, cover the fixing plate into the 14 $\frac{1}{8}$ " x 14 $\frac{1}{8}$ " (362x362mm) opening on the ceiling, and fix the fixing plate with the outdoor unit of air conditioner on the roof with 4 long bolts.



Note: Before tightening the long bolts, screw each bolt by hand at first. The four rivet nuts on the chassis of the outdoor unit of air conditioner are located at four corners of the opening. Screw the 4 long bolts into the corresponding rivet nuts by hand, and then tighten them evenly one by one with a torque of 4.5N.m-5.5N.m, so that the thickness of box sponge on the roof will be compressed to about ½" (13mm). The bolts are self-locking bolts, so there is no need to tighten them excessively.

⚠ NOTE

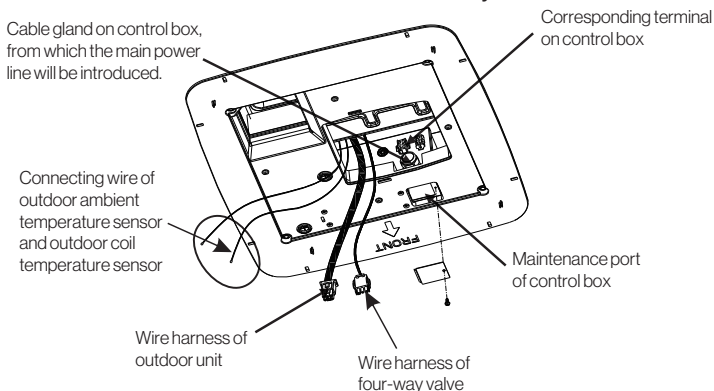
If the bolts are loose, the roof may not be sealed sufficiently. If the bolts are tightened excessively, the chassis of air conditioner or fixing plate may be damaged. Please tighten them according to the torque specification listed in this manual.

System Wiring

⚠ WARNING

1. Please disconnect the main power supply at first. Failure to comply with these instructions will result in electric shock hazard and further cause death or serious injury.
2. The air conditioning equipment is reserved for grounding to prevent electric shock hazard. Please ensure that the equipment has been connected to a 220V/50Hz circuit with reliable grounding. Failure to follow the above instructions will result in death, injury or equipment damage.

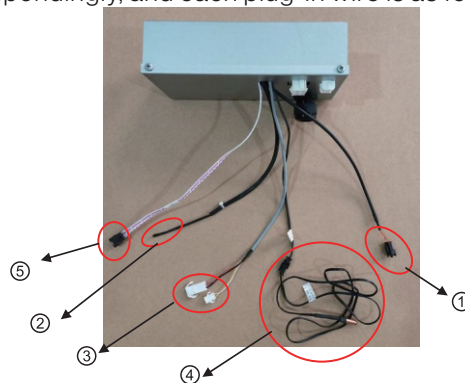
IMPORTANT: Electrical installation must be carried out by professionals, and wiring must be conducted in accordance with national electrical codes and industry standards.



1. First of all, remove the maintenance plate of the maintenance port of control box. Introduce the main power line into the control box (for about 150mm long)

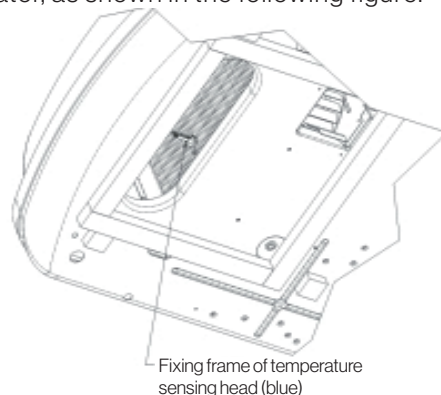
from the cable gland on the control box. The cable gland needs to be tightened to prevent the main power line from being pulled and causing the connection to become loose.

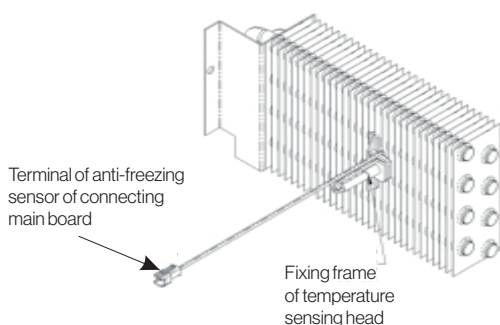
2. Connect the white wire in the control box to the white wire or zero wire of the main power line, the black wire to the black wire or live wire of the main power line, and the yellow-green wire to the yellow-green wire or ground wire of the main power line. All wires are recommended to be connected by special wiring terminals, which must be connected well and firmly.
3. Put the connected wires back into the maintenance port of control box, and fix the maintenance plate again. Insert the plug-in wire harness of outdoor unit pulled out from the return air outlet of air conditioner into the corresponding six-core terminal plug of the control box. (If it is a heat pump type or an electric heating type, the three-core plug pulled out from the return air outlet of air conditioner should be correspondingly inserted into the three-core terminal plug.) Make sure that all plug-in terminals are inserted in place.
4. Connect other plug-in wires on the control box correspondingly, and each plug-in wire is as follows:



- ① Connecting wire of display panel;
- ② Room temperature sensor;
- ③ Outdoor ambient temperature sensor and outdoor coil temperature sensor;
- ④ Anti-freezing sensor;
- ⑤ LED strip connecting wire(optional)

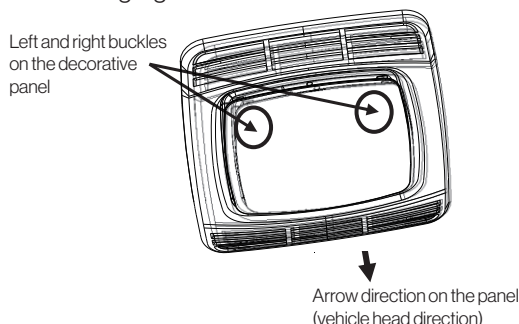
5. Insert the anti-freezing temperature sensing head into the fixing frame of temperature sensing head on the evaporator, as shown in the following figure:



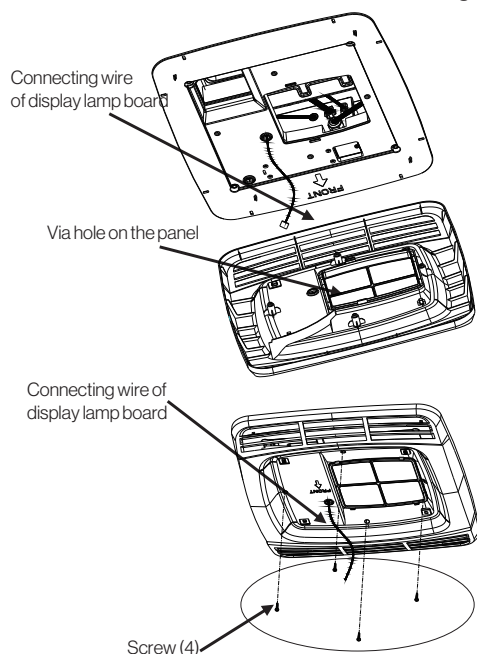


Panel Installation

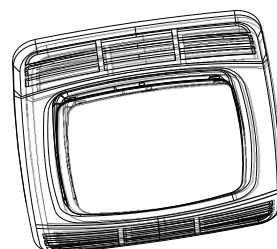
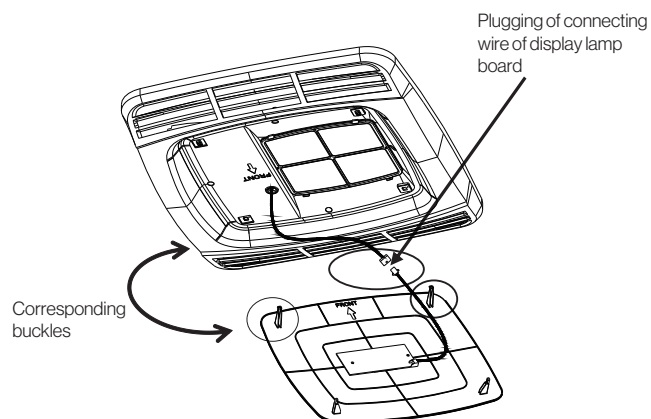
1. Press the left and right buckles on the decorative panel at the same time to remove the decorative panel, as shown in the following figure:



2. Take out the panel, place it according to the direction indicated on the panel, pass the connecting wire of display panel on the control box through the via hole on the panel, install the panel on the fixing plate and fix it tightly with 4 screws, as shown in the following figure:



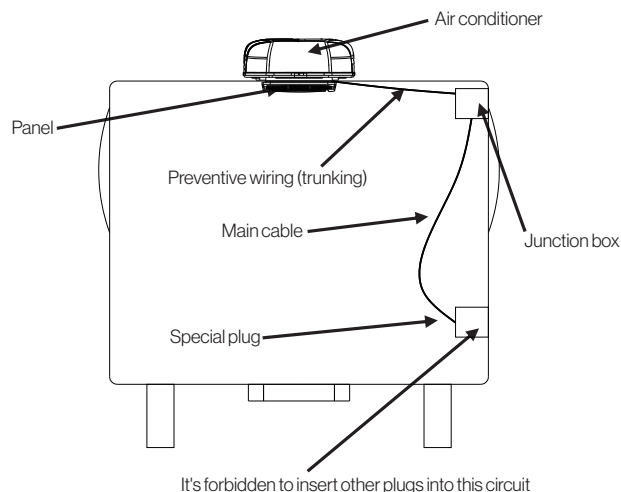
3. Take out the decorative panel, make the arrow direction face the head of RV, plug the connecting wire of display lamp board with the connecting wire of display lamp board of the decorative panel in place, and then install the lamp board on the panel (when installing the decorative panel, first clamp the two buckles in arrow direction on the corresponding holes of the panel, and then clamp the rear two buckles on the panel lock), as shown in the following figure:



4. After the air conditioning equipment is installed, turn on the power supply of the equipment to conduct running inspection. Before continuing the operation, read operation instructions of the equipment.

Installation to the Top of RV

1. The permanent wiring of air conditioning control box can be introduced from the main incoming line of RV (routed by the side wall), as shown in the following figure:



2. Special socket for air conditioning equipment shall be arranged on the side wall of RV. The cable should be connected to socket and fuse.
3. The main connecting cable must be resistant to oil, water and ozone corrosion

CONTROL INSTRUCTIONS

Description of Remote Controller

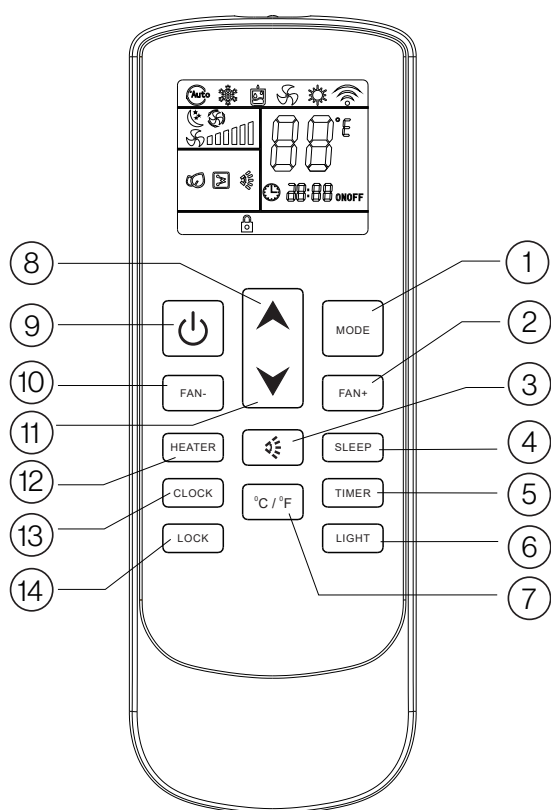
After power-on, the compressor will be turned on in a few minutes.

Press the "MODE" button to switch various modes (Auto, Cooling, Dry, Fan, and Heating), the system will confirm to enter the selected working mode after 2 seconds, and internal buzzer sound can be heard. During the operation, the remote controller should aim at the signal receiving module.

Introduction of LCD icons

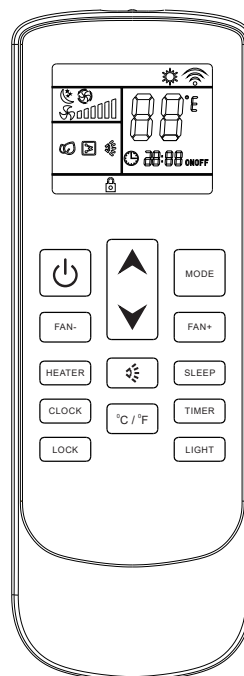
Icons	Meaning	Icons	Meaning
	Auto		Airflow direction
	Cooling		Fan speed
	Dry		Sleep
	Fan		Auto fan
	Heating		Temp
	Light		Clock
	Electrical Heat		Timer
	Lock		

Remote control functions



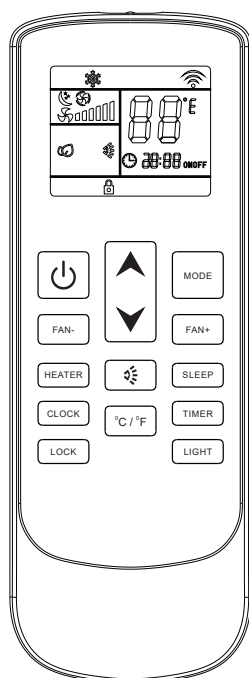
NO.	BUTTON	FUNCTION
①	MODE	Set up the air conditioner operating mode
②	FAN SPEED	Set up the fan speed
③	LOUVER SWING	Adjust the airflow direction
④	SLEEP	Automatically adjusting the setting temperature according to the circadian rule.
⑤	TIMER	Set up the time the air conditioner starts
		Set up the time the air conditioner stops.
⑥	LIGHT	Switch on the light or UPI than what unit has this function
⑦	TEMP	Set temperature unit to °C or °F
⑧	UP	Increase the temperature and time
⑨	ON/OFF	Turn on or turn off the air conditioner
⑩	FAN SPEED	Set up the fan speed down
⑪	DOWN	Decrease the temperature and time
⑫	ELECTRICAL HEAT	Switch on the electrical heat in order to get enough heating capacity in cold winter.
⑬	CLOCK	Adjust the clock
⑭	LOCK	Lock the remote control set

Heating mode



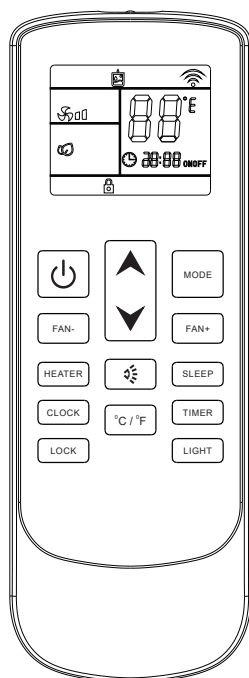
- Press the **ON/OFF** button "⏻" switch on the air conditioner, it will run by memory mode.
- Press the **MODE** button, set up the mode to heat "🔥", the air conditioner will run in heating.
- Press **UP** "▲" or **DOWN** "▼" button, to adjust the setting up temperature.
- Press the **FAN SPEED** button "FAN+" or "FAN-", set up the fan speed, "🌀" : Low speed, "🌀🌀" : Middle speed, "🌀🌀🌀" : High speed, "🌀" : Auto speed. For auto fan, the speed is chosen by the difference of room temperature and setting temperature.
- Press the **ON/OFF** button "⏻" switch off the air conditioner. Next time when this button is pressed, the air conditioner will operate in this mode by memory.

Cooling mode



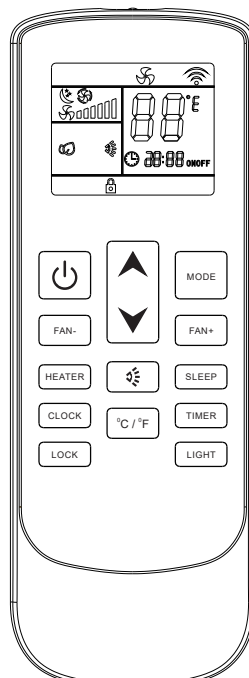
- 1** Press the **ON/OFF** button "⏻" switch on the air conditioner, it will run by memory mode.
- 2** Press the **MODE** button, set up the mode to cool "❄️", the air conditioner will run in cooling.
- 3** Press **UP** "▲" or **DOWN** button "▼", to adjust the setting up temperature.
- 4** Press the **FAN SPEED** button "FAN+" or "FAN-", set up the fan speed, "🌀": Low speed, "🌀🌀": Middle speed, "🌀🌀🌀": High speed, "🌀": Auto speed. For auto fan, the speed is chosen by the difference of room temperature and setting temperature.
- 5** Press the **ON/OFF** button "⏻" switch off the air conditioner. Next time when this button is pressed, the air conditioner will operates in this mode by memory.

Dry mode



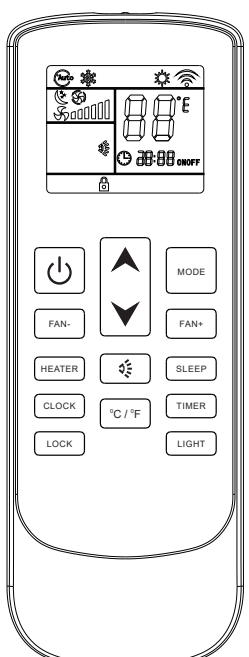
- 1** Press the **ON/OFF** button "⏻" switch on the air conditioner, it will run by memory mode.
- 2** Press the **MODE** button, set up the mode to dry "💧", the air conditioner will run in dehumidifying.
- 3** Press **UP** "▲" or **DOWN** "▼" button, to adjust the setting up temperature.
- 4** **FAN SPEED** button is "FAN+" or "FAN-" disable, indoor fan speed always is low in dry mode.
- 5** Press the **ON/OFF** button "⏻" switch off the air conditioner. Next time when this button is pressed, the air conditioner will operates in this mode by memory.

Fan mode



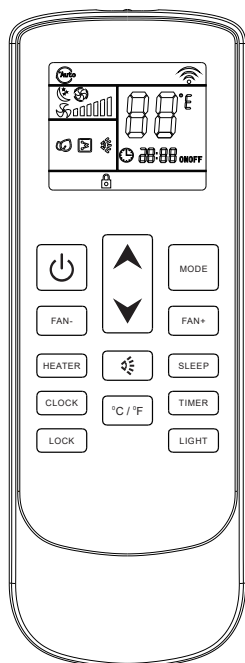
- 1** Press the **ON/OFF** button "⏻" switch on the air conditioner, it will run by memory mode.
- 2** Press the **MODE** button, set up the mode to fan "🌀", the air conditioner will run in fan.
- 3** Press **UP** "▲" or **DOWN** button "▼", to adjust the setting up temperature.
- 4** Press the **FAN SPEED** button "FAN+" or "FAN-", set up the fan speed, "🌀": Low speed, "🌀🌀": Middle speed, "🌀🌀🌀": High speed, "🌀": Auto speed. For auto fan, the speed is chosen by the difference of room temperature and setting temperature. Room temperature-setting temperature > 5°C high speed. > 3°C middle speed. > 1°C low speed.
- 5** Press the **ON/OFF** button "⏻" switch off the air conditioner. Next time when this button is pressed, the air conditioner will operates in this mode by memory.

Sleep mode



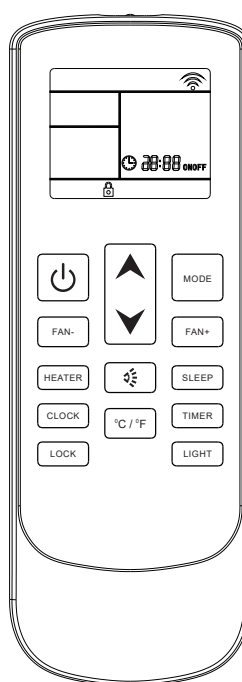
- 1** Press the **ON/OFF** button "⏻" switch on the air conditioner, it will run by memory mode.
- 2** Press the **MODE** button, set up the mode to cool "❄️" / heat "🔥" (heat pump) / auto "🌀", the air conditioner will run in setting mode.
- 3** Press **UP** "▲" or **DOWN** button "▼", to adjust the setting up temperature.
- 4** Press the **SLEEP** button, this icon will display on LCD, sleep function is set up; press it again, cancel the sleep function.
- 5** If the sleep function is launched, the fan speed is steady in low speed.

Auto mode



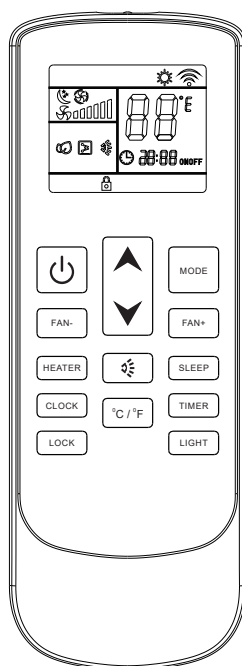
- 1 Press the **ON/OFF** button "⏻" switch on the air conditioner, it will run by memory mode.
- 2 Press the **MODE** button, set up the mode to auto "🚗", the air conditioner will run in auto mode. (Reference to "emergency operation")
- 3 According to the difference of room temperature and setting temperature automatically choose the running mode (cool, heat, fan). The temperature setting button UP "▲" or DOWN "▼", are disable.
When room temperature $\leq 20^{\circ}\text{C}$, run with heat mode.
When $20^{\circ}\text{C} < \text{room temperature} < 25^{\circ}\text{C}$, run with fan mode.
When room temperature $\geq 25^{\circ}\text{C}$, run with cool mode.
- 4 Press the **FAN SPEED** button "FAN+" or "FAN-", set up the fan speed,
"🌀": Low speed,
"🌀🌀": Middle speed,
"🌀🌀🌀": High speed,
"🌀": Auto speed.
For auto fan, the speed is chosen by the difference of room temperature and setting temperature.
- 5 Press the **ON/OFF** button "⏻" switch off the air conditioner. Next time when this button is pressed, the air conditioner will operate in this mode by memory.

Timer on function



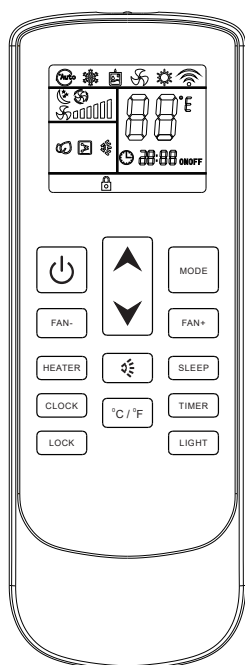
- 1 The air conditioner is switched off.
- 2 Press the **TIMER ON** button "TIMER" set up the time which the air conditioner switch on. Press the button "▲" each time, adjusting up 1 hour; Press the button "▼" each time, adjusting up 1 minute. Set up the operation **MODE, TEMPERATURE, FAN SPEED** etc., When the time is arrived, the air conditioner will start automatically. If the **TIMER ON** button is pressed again, the **TIMER ON** setting will be cancelled.

Electrical heat function



- 1 Press the **ON/OFF** button "⏻" switch on the air conditioner, it will run by memory mode.
- 2 Press the **MODE** button, set up the mode to heat "🔥", the air conditioner will run in heating.
- 3 Press UP "▲" or DOWN "▼" button, to adjust the setting up temperature.
- 4 Press the **FAN SPEED** button "FAN+" or "FAN-", set up the fan speed,
"🌀": Low speed,
"🌀🌀": Middle speed,
"🌀🌀🌀": High speed,
"🌀": Auto speed.
For auto fan, the speed is chosen by the difference of room temperature and setting temperature.
- 5 Press the assistant **ELECTRICAL HEAT** button "HEATER" the icon will display on the LCD, starting the assistant heat; press this button again, stop the assistant heat.
- 6 Press the **ON/OFF** button "⏻" switch off the unit. Next time when this button is pressed, the unit will operate in this mode by memory.

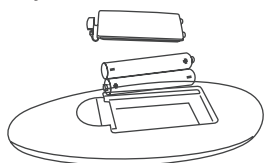
Timer off mode



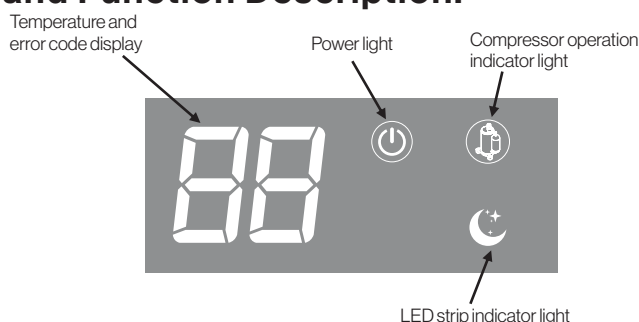
- 1 Press the **ON/OFF** button "⏻" switch on the air conditioner, it will run by memory mode.
- 2 Press the **MODE** button set up the mode to which you want.
- 3 Press UP "▲" or DOWN "▼" button, to adjust the setting up temperature.
- 4 Press the **FAN SPEED** button "FAN+" or "FAN-", set up the fan speed,
"🌀": Low speed,
"🌀🌀": Middle speed,
"🌀🌀🌀": High speed,
"🌀": Auto speed.
For auto fan, the speed is chosen by the difference of room temperature and setting temperature.
- 5 Press the **TIME OFF** button "TIMER" set up the time air conditioner switch off. Press the button "▲" each time, adjusting up 1 hour; Press the button "▼" each time, adjusting up 1 minute; When the time is over, the air conditioner will be switched off automatically. If press this button again before the air conditioner switch off, the timer off setting will be cancelled.

Installation and Replacement of the Battery of Remote Controller

1. Open the battery cover: hold the handle of the battery cover, gently pull it up, and remove the battery cover.
2. Put in the battery (AAA): pay attention to the polarity of battery, which should be consistent with the identifications in the battery box.
3. Install the battery cover.
4. Inspection: if there is no display on the display screen of remote controller after pressing the button "o", please reinstall the battery.

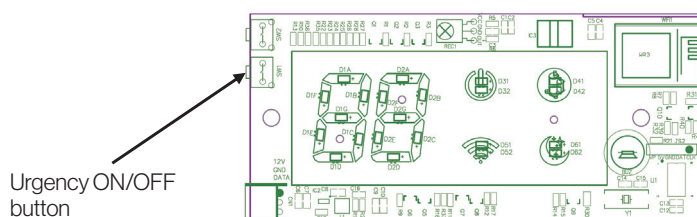


Display of the Display Board of Decorative Panel and Function Description:



Temperature and error code display: used to set the display of temperature, room temperature and error code.
Power light: when the machine is started up, the power light will be on. When it's shut down, the power light will go out.
Compressor operation indicator light: it will be on when the compressor is turned on, and go out when the compressor is turned off.

Urgency ON/OFF button: it's on the display board, used to start up/shut down the machine urgently when the remote controller is lost.



MAINTENANCE OF AIR CONDITIONER

Cleaning of Filter Screen

Position of left and right buckles of the decorative panel
 Regularly remove the filter screen behind the decorative panel inside the panel (press the left and right buckles of the decorative panel, and the decorative panel can be removed), flush it backwards with clear water, dry it and reinstall it.

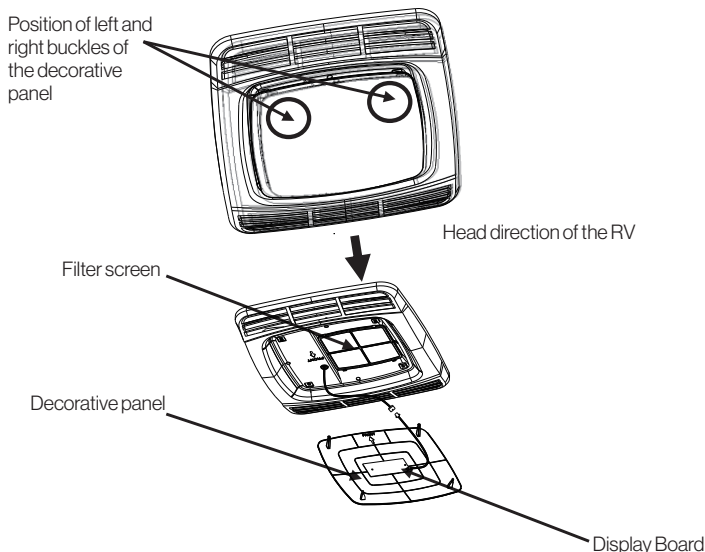
NOTE: It is forbidden to operate the air conditioner without the filter screen, otherwise, the evaporator coil will be defiled and the service life of air conditioner will be affected.

Panel Surface Cleaning

Clean the outer surface of the panel with soft cloth dipped in neutral detergent. Do not use polishing or cleaning powder.

Fan Motor

The fan motor has been lubricated before leaving the factory and does not need special maintenance.



TROUBLESHOOTING

- If the air conditioning equipment cannot work normally, please carry out inspection as follows to remove the faults:
- Check whether the fuse of air conditioning equipment or leakage circuit breaker of the RV is turned on; If the air conditioner is powered by a generator, please first confirm whether the generator power matches the air conditioner, whether the generator runs normally and generates electricity, and whether voltage output of the generator is stable.
- If the RV is connected to the mains supply, please make sure that the specification of power line matches the

operating load of this product and that there is power supply. Check whether the mains voltage meets related requirements (the operating voltage of air conditioner is 220V);

- Check whether the connecting wires of air conditioner are inserted in place and connected in good condition.
- If the air conditioner still cannot work normally after the above inspection, please contact the factory for further help.

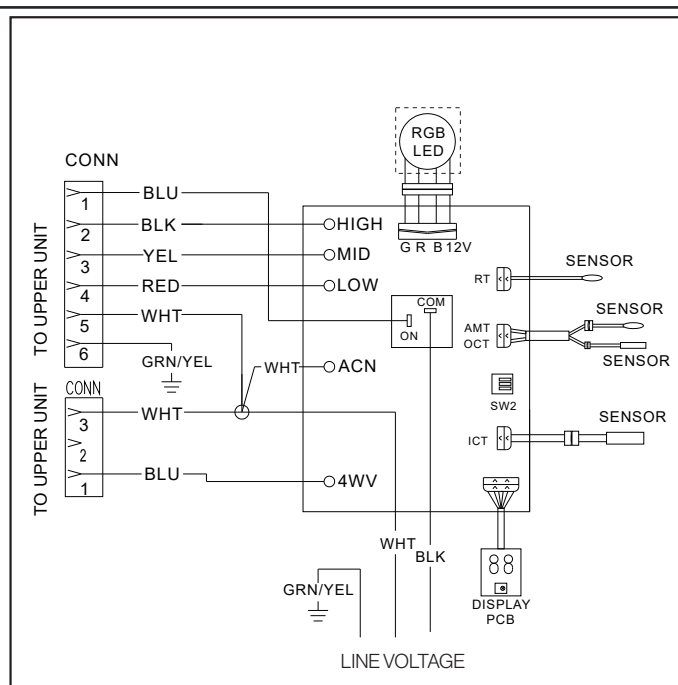
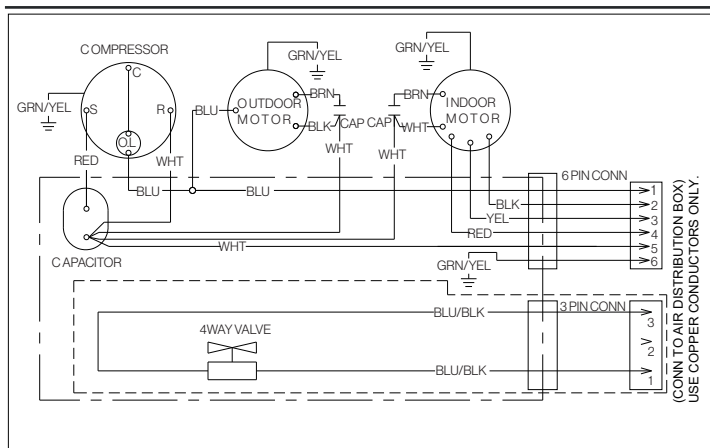
NOTE: the equipment must be repaired by qualified personnel.

ERROR CODE OF DISPLAY BOARD

Code	Cause	Solution
E1	Fault of indoor temperature sensor	Check the sensor butt joint and replace the temperature sensing head.
E2	Fault of indoor coil temperature sensor	Check the sensor butt joint and replace the temperature sensing head.
E3	Fault of outdoor coil temperature sensor	Check the sensor butt joint and replace the temperature sensing head.
E4	Fault of outdoor ambient temperature sensor	Check the sensor butt joint and replace the temperature sensing head.

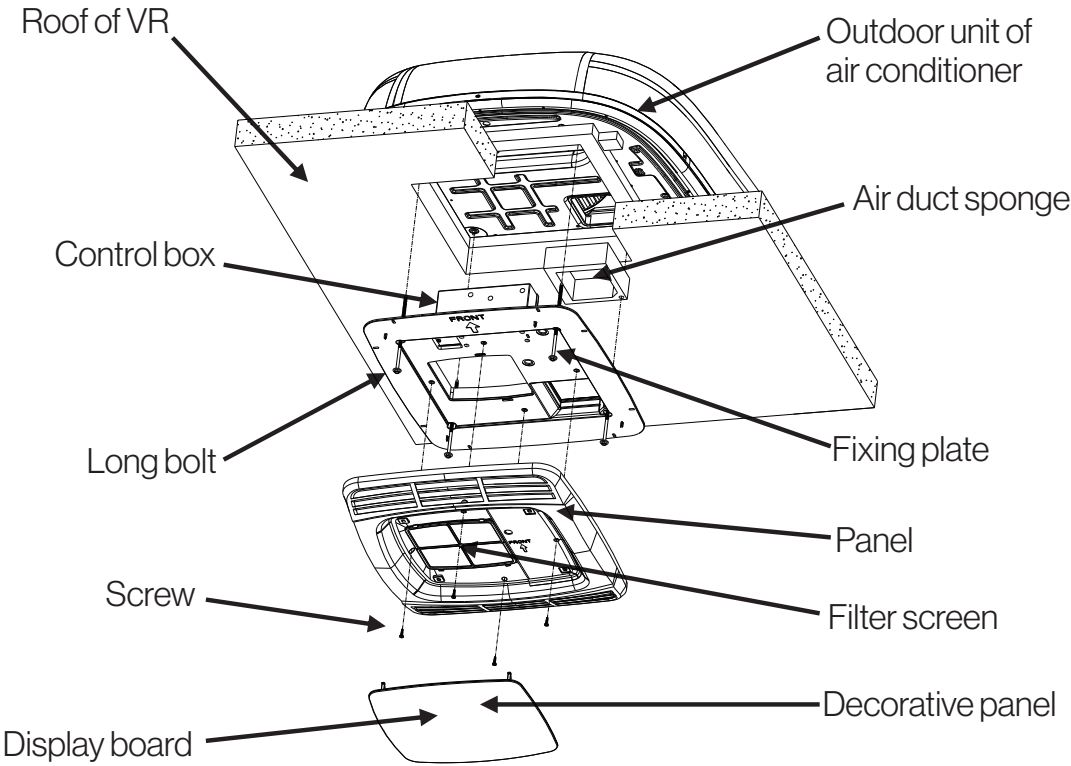
NOTE: when the display board displays “df”, it does not indicate a fault, but the machine is defrosting.

CIRCUIT DIAGRAM OF OUTDOOR UNIT AND PANEL



INSTALLATION EXPLODED DRAWING

English





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