TOSOT

Portable air conditioner

PAT Series

Owner's Manual

Operator's Manual

*Please read this owner's manual carefully
before operating the unit and keep it for future reference.*

For models:
GPC08AL-A3NNA1B
GPH08AL-A3NNA1B

V2021-02

Table of Contents

Operation Notices

READ THIS MANUAL: Inside you will find many helpful hints on how to use and maintain your air conditioner properly. Just a little preventive care on your part can save you a great deal of time and money over the life of your air conditioner. You'll find many answers to common problems in the chart of troubleshooting tips. If you review our chart of Troubleshooting Tips first, you may not need to call for service at all.

NOTICE: Graphics in this manual are only for reference. Please refer to actual products for specific details.

This appliance is not intended for use by people (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the appliance.

CAUTION:
- Contact the authorized service technician for repair or maintenance of this unit.
- Contact the installer for installation of this unit.
- If the SUPPLY CORD is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified people to avoid a hazard.
- Installation work must be performed in accordance with the national wiring standards and by authorized personnel only.

Operation Notices

Symbols Meanings

Safety Warnings:

WARNING: Indicates the possibility of death or serious injury.

CAUTION: Indicates the possibility of injury or damage to property.

General Warnings:

🚫 Indicates NEVER DO THIS.

❗ Indicates ALWAYS DO THIS.

Exception Clauses

Manufacturer will bear no responsibilities when personal injury or property loss is caused by the following reasons.

1. Damage the product due to improper use or misuse of the product;
2. Alter, change, maintain or use the product with other equipment without abiding by the instruction manual of manufacturer;
3. After verification, the defect of product is directly caused by corrosive gas;
4. After verification, defects are due to improper operation during transportation of product;
5. Operate, repair, maintain the unit without abiding by instruction manual or related regulations;
6. After verification, the problem or defect is caused by the quality specification or performance of parts and components that produced by other manufacturers;
7. The damage is caused by natural calamities or bad using environment.

Operation Area

This unit is intended for indoor residential applications only. It should not be used for commercial or industrial applications.

- The air conditioner must be operated within the temperature range: 61°F to 95°F (16°C to 35°C).
- The appliance must be positioned so that the plug is accessible.
- Reserved space around the air conditioner should be 12 inches (30 cm) at least.
- Do not operate the air conditioner at humid environment.
- Please keep air inlet and air outlet clean, no obstacles.
- During operation, close doors, windows and other outside openings to improve cooling effect.
- Please put the air conditioner on a smooth and level floor.
- This air conditioner is equipped with castors. Castors should slide easily on the floor.
- Prohibit inclining or turning over the air conditioner.
- Avoid direct sunshine on the air conditioner.
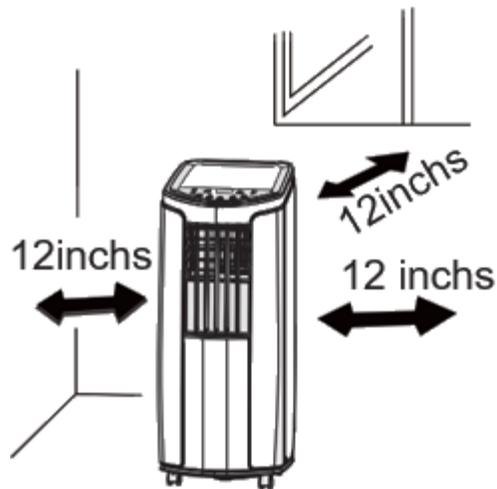
Safety Precautions

⚠️ WARNING

Operation and Maintenance

- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.

- Children and disabled people are not allowed to use the unit without supervision.

- Children shall not play with the appliance.

- Please prevent children from playing and climbing on the air conditioner.

- Cleaning and user maintenance shall not be made by children.

- Before cleaning, please turn it off and unplug the unit.

- If the power supply wire is damaged, it must be replaced by a qualified person in order to avoid a hazard.

- Do not connect to multi-purpose socket. Otherwise, it may cause fire hazard.

- Do not spray water on unit. It may cause electric shock or malfunction.

- Do not use any heating application near portable air conditioner. It may cause electric shock.

- Do not remove the power plug or move unit by pulling the power cord.

- Do not remove the power plug in wet hands.

Safety Precautions

⚠ **WARNING**

Operations and Maintenance

- Do not repair the appliance by yourself. It may cause electric shock or damage. Maintenance must be done by a qualify technician.

- Do not insert fingers or objects into air inlet or air outlet. It may cause personal injury or damage.

- Do not block air outlet or air inlet. It may cause malfunction.

- When below phenomenon occurs, please turn off the appliance and disconnect power immediately, and then request a service from your manufacturer or certified person:
  - There's abnormal sound during operation.
  - Circuit break trips off frequently.
  - The appliance gives off burning smell.
  - Indoor unit is leaking.

- If the appliance operates in an inappropriate environment or under abnormal conditions, it may cause malfunction, electric shock or fire hazard.

- Portable air conditioner can not be disposed of everywhere due to the refrigerant contained in the product. To dispose of the product, please check with local handling disposal.

- Memory function is included in this portable room air conditioner. When nobody is taking care of the unit, please turn it off and remove the power plug or disconnect power.

Safety Precautions

⚠ WARNING

Wiring

- Must follow the electric safety regulations when installing the unit.

- According to the local safety regulations, use qualified power supply circuit and circuit breaker.

- Install a circuit breaker of adequate capacity only used for the system; otherwise, it may cause malfunction.

- The appliance should be properly grounded. Incorrect grounding may cause electric shock.

- Make sure the power supply matches with the requirement of the appliance. Unstable power supply or incorrect wiring may cause malfunction of the unit, electric shock or fire hazard.

- Properly connect the live wire, neutral wire and grounding wire of the power outlet correctly.

- Be sure to cut off the power supply before proceeding any work related to electricity and safety.

- Instructions for cord-connected room air conditioners shall include manufacturer's recommendations regarding the use of cord sets (extension cords). If use of an extension cord is not recommended, the instructions shall state this. Recommendations for an extension cord shall specify at least the use of a cord set with an equipment grounding conductor grounding-type attachment plug, and grounding-type connector (load fitting); the amperage and the rated voltage of the cord set.

Safety Precautions

⚠️ **WARNING**

Wiring

- Do not turn the power on before finishing installation.

- If the supply cord is damaged, it must be replaced by a qualified person to avoid problems.

- The temperature of refrigerant circuit will be high, please keep the interconnection cable away from the copper tube.

- The appliance shall be installed in accordance with national wiring regulations.

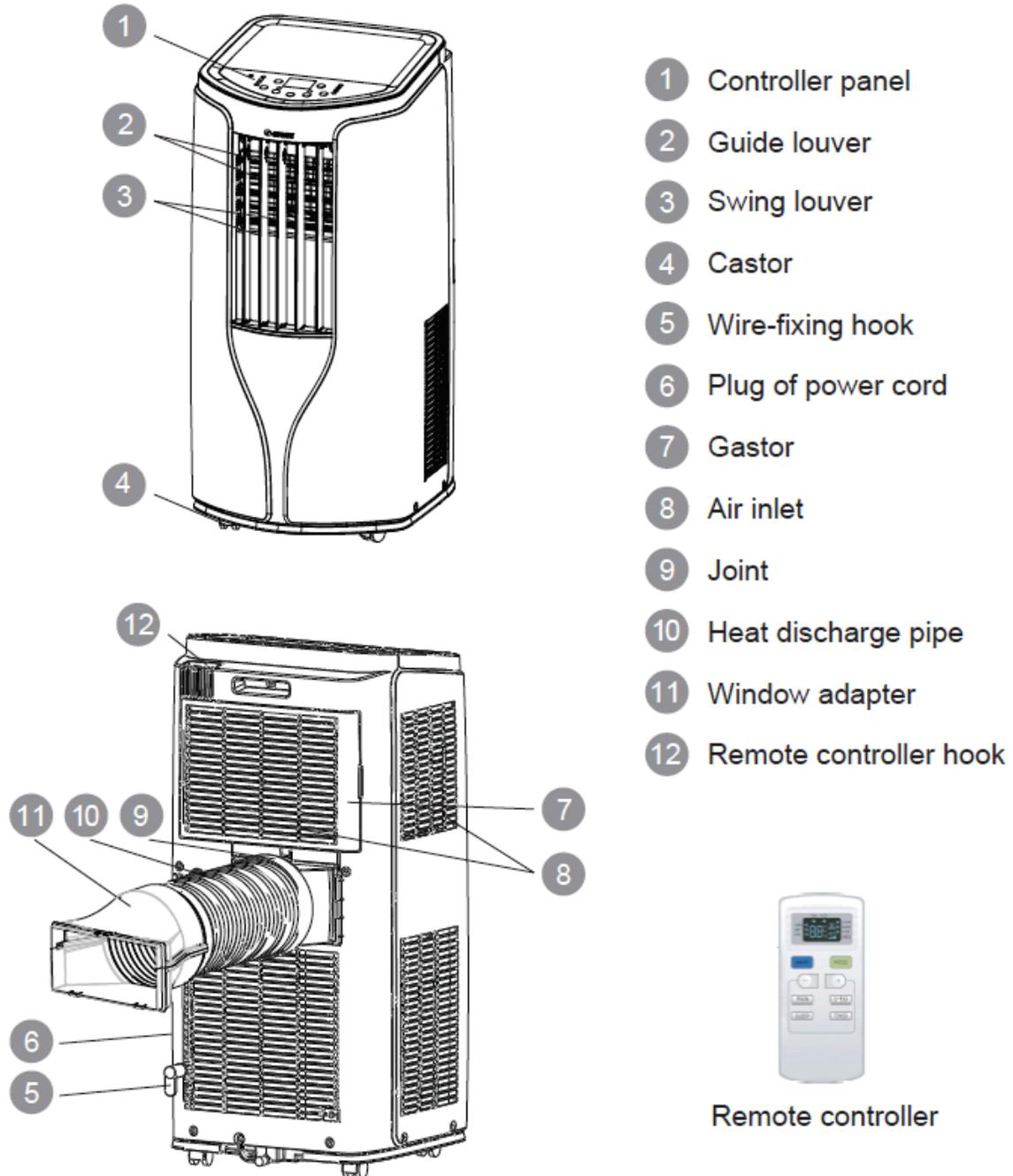- The grounding resistance should comply with national electric safety regulations.

Location

- Do not place the portable room air conditioner under dripping objects.

- Select a location which is out of reach for children and far away from animals.

- Instructions for installation and use of this product are provided by the manufacturer.

- Keep far away from fire source, inflammable and explosive objects.

Parts Name

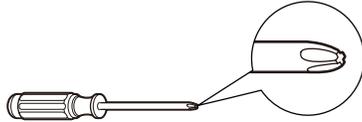NOTICE: Actual product may be different from below graphics, please refer to actual product for reference purposes.

1	Controller panel
2	Guide louver
3	Swing louver
4	Castor
5	Wire-fixing hook
6	Plug of power cord
7	Gastor
8	Air inlet
9	Joint
10	Heat discharge pipe
11	Window adapter
12	Remote controller hook

Remote controller

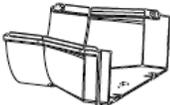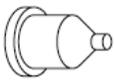NOTICE: Heat discharge pipe and other installation accessories can't be discarded.

Installation

Preparation Before Installation

Tools for installation

Phillips screwdriver		Scissors	
Screwdriver		Pencil	
Saw		Measuring tape	

Components included in the box - may vary from model to model

Joint	heat discharge pipe	Window adapter(Top)	Window adapter(Bottom)	wire hook
pipe clip	screw	drainage pipe	rubber plug	pipe hoop
Insect guard net	Rain guard	Window kit Window panel Exhaust cover Extension panel Adjustment panel	Bracket	sponge A
sponge B	Drain connector	Remote controller	battery (AAA 1.5V)	user's manual
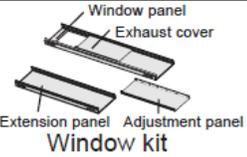
Installation Precautions

Basic requirements of location:

- Should not be near a place with strong heat sources, vapors, flammable or explosive gas, or volatile objects spread in the air.
- Should not be near a place with high-frequency devices (such as welding machine, medical equipment).
- Should not be near a place with oil or fumes in the air.
- Should not be near a place with sulfureted gas.
- There should be no obstruction near air inlet and air outlet.
- Select a location where the condensation water can be dispersed easily and won't affect other people.
- The location should be able to withstand the weight of the unit and won't increase noise and vibration.
- Try to keep far away from fluorescent lamp.
- Do not operate the unit in the bathroom or laundry room.

**Requirements for electric connection:**

1. Must follow the electric safety regulations when installing the unit.
2. According to the local safety regulations, use qualified power supply circuit.
3. For appliances with type Y attachment, the instructions shall contain the substance of the following. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
4. Properly connect the live wire, neutral wire and grounding wire of power socket.
5. Be sure to cut off the power supply before proceeding any work related to electricity and safety.
6. Do not put through the power before finishing installation.
7. The air conditioner is first class electric appliance. It must be properly grounding with specialized grounding device by a professional. Please make sure it is always grounded effectively, otherwise it may cause electric shock.
8. The yellow-green wire or green wire in air conditioner is the grounding wire, which can't be used for other purposes.
9. The grounding resistance should comply with national electric safety regulations.
10. The appliance shall be installed in accordance with national wiring regulations.

Installation Instructions

Installation of Wire Hook

1. Assemble the wire hook at the back of the unit with screws (the direction of wire hook is as shown in the following figure).

direction of wire hook is upward

wire hook

screw

direction of wire hook is downward
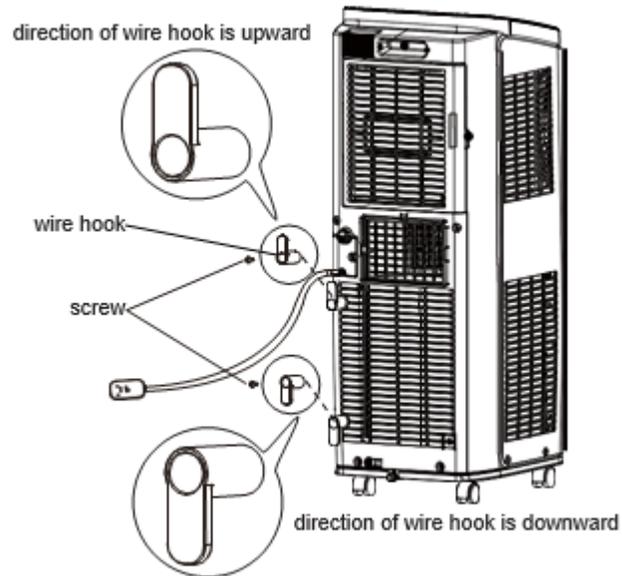
2. Wind the power cord around the wire hook.

Removing the collected water
**1st Option - Using the continuous drainage from the lower hole**

NOTE: When using the continuous drainage option from the bottom hole, install drainage pipe before using, otherwise poor drainage will affect normal operation of the unit.

To install drainage pipe:

1. Fix the drainage pipe clip on the right of rear side plate near drainage port with a screw.

drainage port

drainage pipe clip
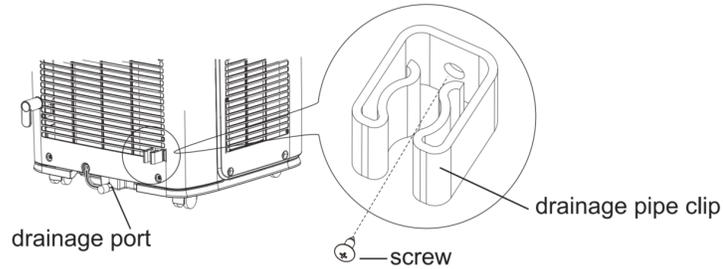
screw

2. Remove the rubber plug at drainage port.
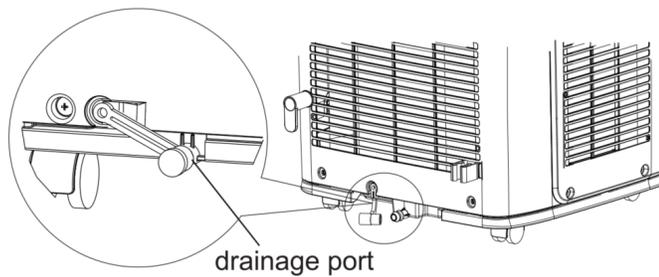

drainage port

3. Put the drainage pipe into drainage port and screw it up, and then bind it with pipe hoop.

4. Put the rubber plug into the other side of drainage pipe, fix it with pipe hoop and then fix it in the drainage pipe clip.

pipe hoop

rubber plug

drainage pipe clip

drainage pipe

pipe hoop

drainage port
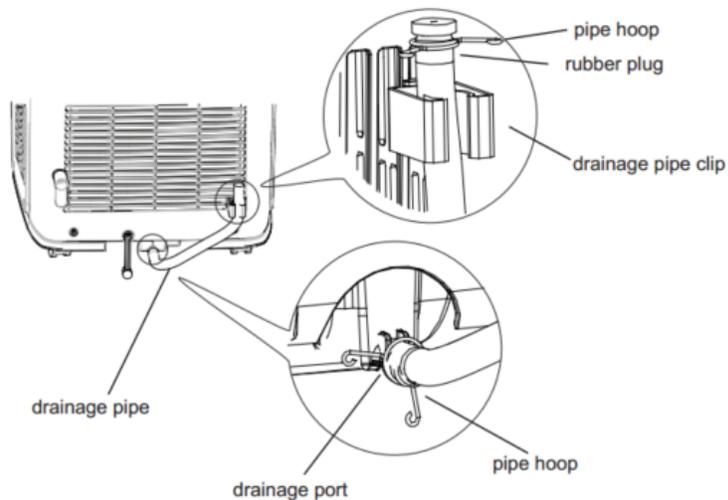
Drainage way goes as follows:

1. In cooling or drying operation, the condensation water will be drained to the chassis and spattered by water-striking motor. As the temperature of condenser is high, most of the condensation water will be evaporated and drained outside. So usually, only a little condensation water will be accumulated inside the chassis and you will not need to discharge the water frequently.

2. When the chassis is full of water, the buzzer emits 8 sounds and the message "H8" is displayed to remind the user that he must evacuate the water:
    a. Move the unit to a suitable place for discharging water; do not tilt the unit and keep it horizontal during moving;
    b. Take the drainage pipe from the clip and pull out the rubber plug on the drainage pipe to discharge water;
    c. Put back the rubber plug onto drainage pipe after you have finished discharging water and then fix the pipe on the clip;
    d. After draining the water, the "H8" display goes off and the compressor has stopped for 3 minutes, the appliance will resume normal operation.
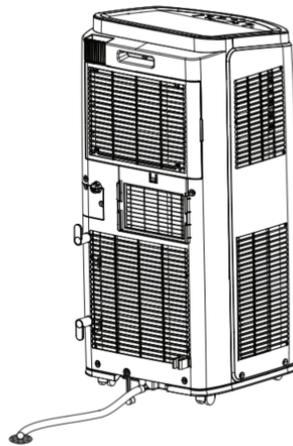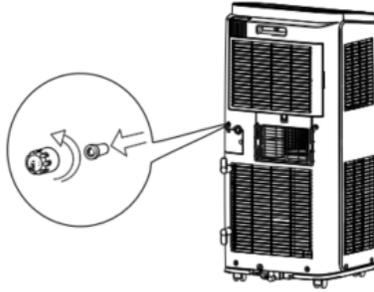
Removing the collected water
2nd Option - Using the continuous drainage from the middle hole

NOTE: Water can be automatically emptied into a floor drain by attaching 14mm inner diameter hose (not included).
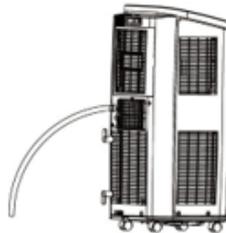
1. Remove the continuous drain cap by turning it counter clockwise then remove the rubber stopper from the spout.


2. Screw the drain connector to (included in the package) the spout by turning clockwise.
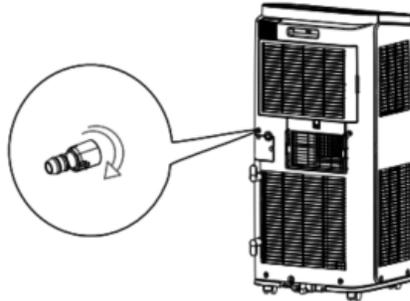
3. Insert the drainage hose into drain connector.

ATTENTION: When using continuous drainage option from the middle hole, place the unit on a level surface and make sure drain pipe is clear of any obstructions and is directed downward. Placing portable on an uneven surface or improper pipe installation may result in water filling up the chassis and causing the unit to shut off. Empty water in the chassis if shut off occurs, then check the unit location and hose for proper setup.
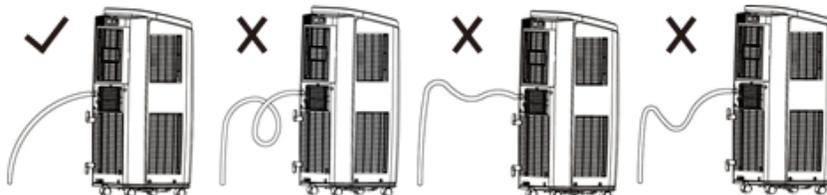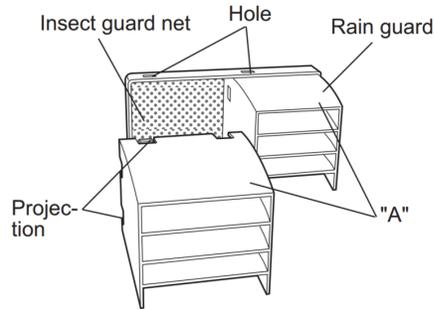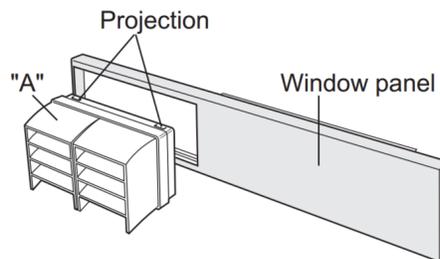
Installation in a double-hung sash window

Note: The window panel cannot be installed in windows less than 20.5" (520mm) wide, as you will be unable to shut the exhaust cover.

1. Connect the rain guards to the insect guard net. Insert all three projections on each rain guard into the holes in the insect guard net. Side "A" will now be at the top, as indicated in the diagram.

Insect guard net   Hole   Rain guard

Projec-
tion   "A"

2. Attach the guard combined above to the window panel. Push the insect guard net firmly to ensure that its four projections fit into the holes in the window panel. Side "A" will now be at the top, as indicated in the diagram.

Projection

"A"   Window panel

3. Cut the sponge A (adhesive type) to the proper length and attach it to the window stool and to the bottom of sash.

sponge A
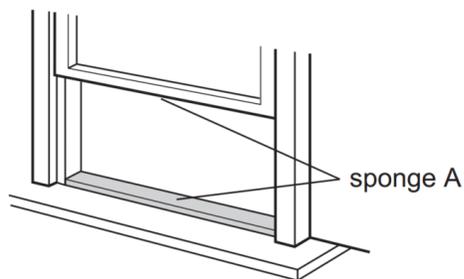
Installation in a double-hung sash window

4. Attach the window panel to the window stool. Make sure that the exhaust cover is attached to the window panel.

Inner width of the window:20.5"(520mm) Use the window panel.
The window panel cannot be installed in windows less than 20.5" (520mm) wide, as you will be unable to shut the exhaust cover.
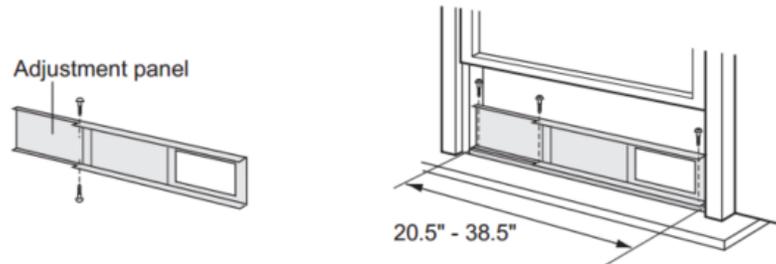   (1) Open the window sash and place the window panel on the windowsill.
    (2) Secure the window panel to the window stool with screws.
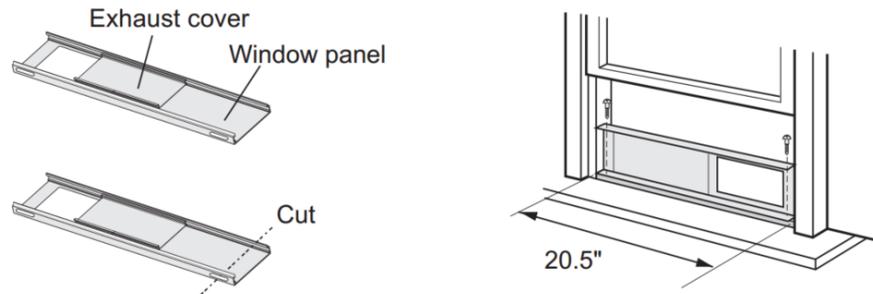
Inner width of the window:20.5" (520mm)- 38.5" (980mm).
Use the window panel and the adjustment panel.
    (1) Open the window sash and place the window panel on the windowsill.
    (2) Slide the adjustment panel to fit the window frame width.
    (3) Secure the window panel to the sill with screws.

Inner width of the window:38.5" (980mm) - 59" (1500mm).
Use the window panel, the adjustment panel and the extension panel.
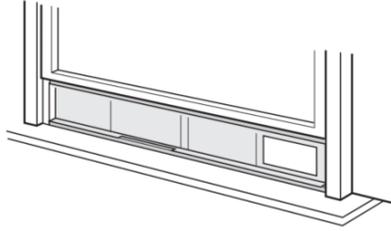   (1) Open the window sash and place the window panel on the windowsill.
    (2) Slide the adjustment and extension panels to fit the window frame width.
    (3) Secure the window panel to the windowsill with screws.
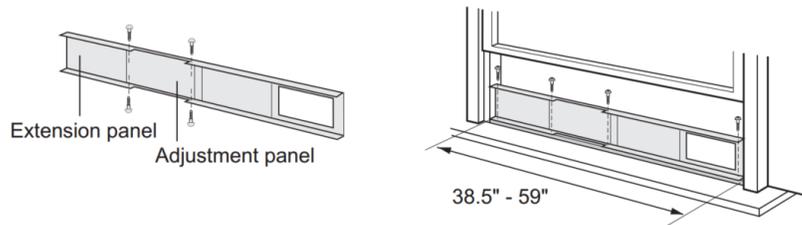
Installation in a double-hung sash window

5. Close the window sash securely against the Window panel.

6. Stuff the sponge B between the glass and the window to prevent air and insects from getting into the room.

7. Attach the bracket with a screw. (Recommended)

Bracket

Please lay a tabular material underneath the window panel in case you could not attach the rain guard or the window adapter properly due to the deep windowsill.

19
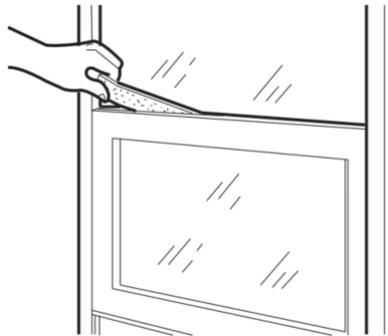
Installation in a sliding sash window

1. Connect the rain guards to the insect guard net.
    Insert all three projections on each rain guard into the holes in the insect guard net.
    Side "A" will now be at the top, as indicated in the diagram.
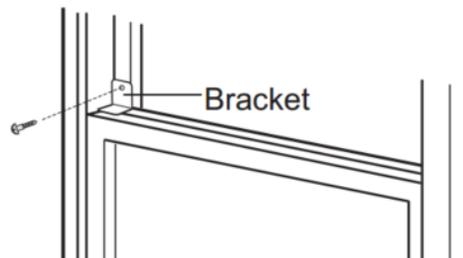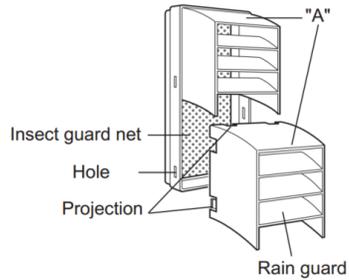

2. Attach the guard combined above to the window panel.
    Push the insect guard net firmly to ensure that its four projections fit into the holes in the window panel.
    Side "A" will now be at the top, as indicated in the diagram, when it is installed in the window.
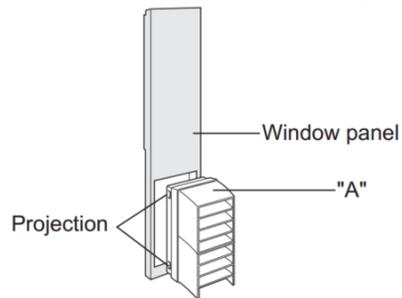
3. Cut the sponge A (adhesive type) to the proper length and attach it to the window frame and to the side of sash.
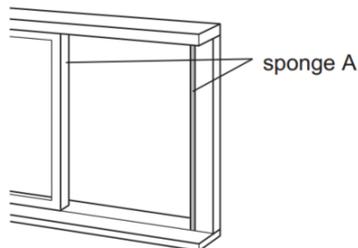
Installation in a sliding sash window

4. Install the window panel into the window frame.
    Make sure that the exhaust cover is attached to the window panel.
    Inner height of the window: 20.5"(520mm)
    Use the window panel.

    The window panel cannot be installed in windows less than 20.5" (520mm) high, as you will be unable to shut the exhaust cover.
    (1) Open the window sash and place the window panel on the window frame.
    (2) Secure the window panel to the window frame with screws.
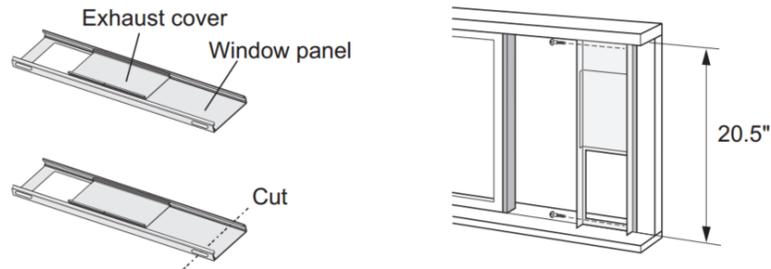
    Inner height of the window:20.5" (520mm)- 38.5" (980mm)
    Use the window panel and the adjustment panel.
    (1) Open the window sash and place the window panel on the window frame.
    (2) Slide the adjustment panel to fit the window frame height.
    (3) Secure the window panel to the window frame with screws.
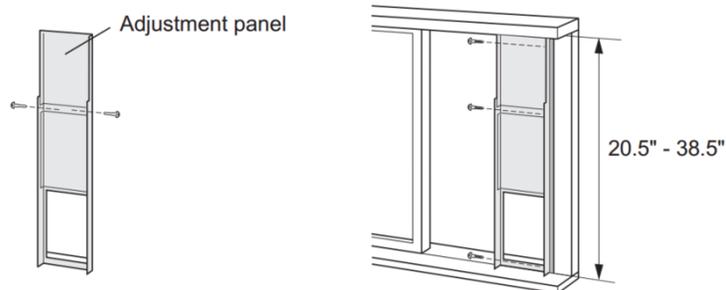
    Inner height of the window:38.5" (980mm) - 59" (1500mm)
    Use the window panel, the adjustment panel and the extension panel.
    (1) Open the window sash and place the window panel on the window frame.
    (2) Slide the adjustment and extension panels to fit the window frame height.
    (3) Secure the window panel to the window frame with screws.

Installation in a sliding sash window

    5.   Close the window sash securely against the Window panel.
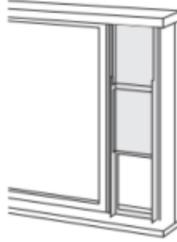
    6.   Stuff the sponge B between the glass and the window to prevent air and insects from getting into the room.

   7.   Attach the bracket with a screw. (Recommended)
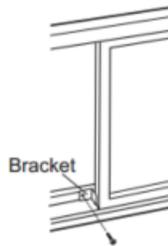
    Please lay a tabular material underneath the window panel in case you could not attach the rain guard or the window adapter properly due to the deep windowsill.

NOTE: In order to improve cooling efficiency, the heat discharge pipe should be as short as possible and flat without curve to ensure smooth heat discharge.

The discharge pipe is suggested to be installed according to the figure below.

correct   under 51 inchs

about 24 inchs
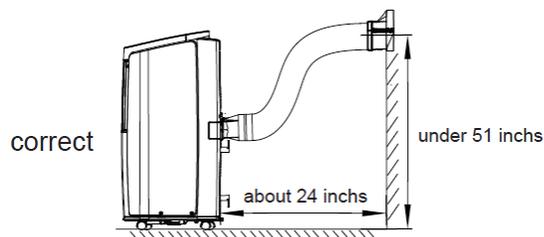
Installation Instructions

Installation and disassembly of heat discharge pipe

User can adjust the installation method of the discharge pipe based on the manufacturer's requirements. Please note that similar installation to the figure below will lead to unsmooth air circulation.

wrong
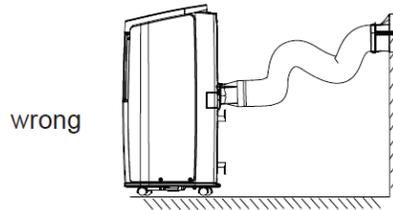
NOTE: The length of the heat discharge pipe is less than 40 inches. It is recommended to use it with shortest length. When installed, the heat discharge pipe should be as flat as possible. Don't prolong the pipe or connect it with another heat discharge pipe.
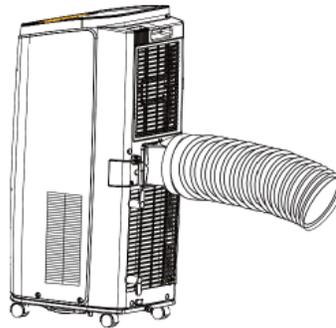
Install heat discharge pipe:

1. Rotate Joint and Window adapter clockwise into the two ends of heat discharge pipe.

clockwise   clockwise

Joint

heat discharge pipe   Window adapter
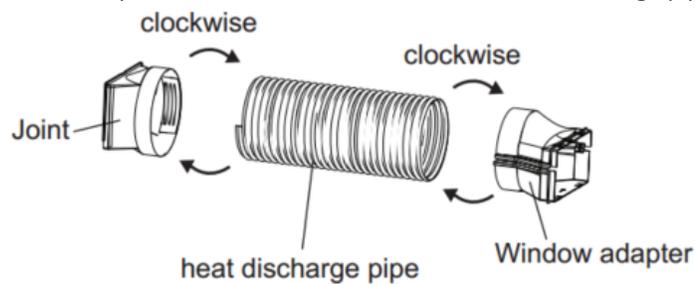
Installation and Disassembly of Heat Discharge Pipe (GPH08AL-A3NNA1B)

2. Insert Joint of heat discharge pipe (the side with "TOP" is upwards) into the groove until you hear a sound.
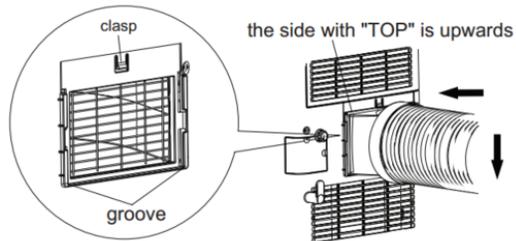
3. Lead the heat discharge pipe outdoors.
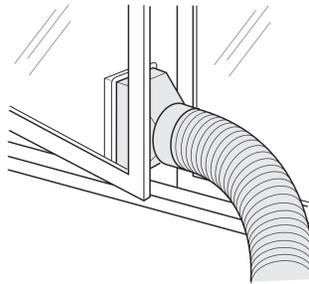
4. Slide and open the exhaust cover on the window panel and attach the window adapter.
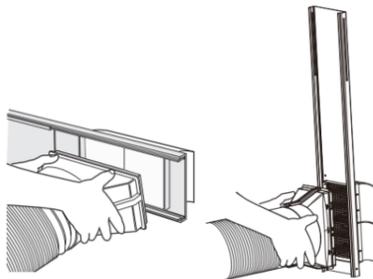
Installation and disassembly of heat discharge pipe

Disassemble heat discharge pipe:

1. Rotate Joint and Window adapter clockwise into the two ends of heat discharge pipe. Remove the window adapter. Pull out and remove the window adapter by pushing down two "PUSH" markings, and slide and close the exhaust cover in the window panel.
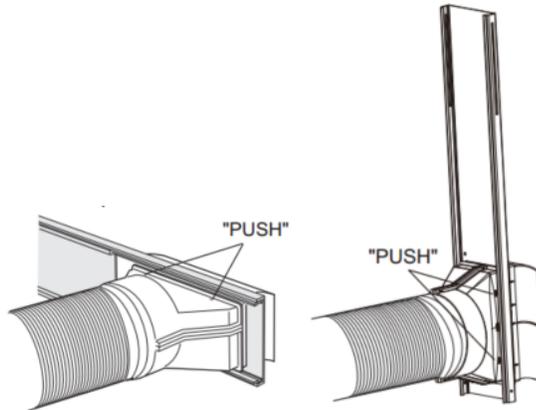
2. Remove Joint: Press the clasp and lift Joint upwards to remove it.
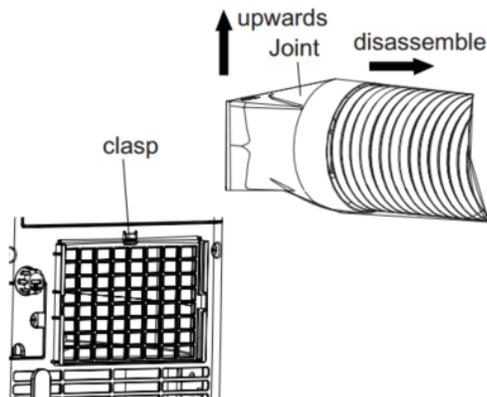
Operation

Operation Test

1. Put through the power supply and then press ON/OFF button on remote control to start the unit.
2. Press mode button to select auto, cooling, drying, fan or heating function, and then check if the unit operates normally.
3. If ambient temperature is below 61°F (16°C), the unit can't operate in cooling mode.

Operation Instructions

1. After putting through the power, press "ON/OFF" button on remote control to turn on the air conditioner.
2. Press "MODE" button to select your required mode: COOL, DRY, FAN.
3. Press "+" or "-" button to set your required temperature. (Temperature can't be adjusted under auto mode).
4. Press "FAN" button to set your required fan speed: auto, low, medium and high speed.

Control

Operating your portable conditioner properly helps you obtain the best possible results. This section explains proper portable conditioner operation.

NOTICE:

- After turning on the power, the air conditioner will make a sound. Then you can operate the air conditioner using the control panel.

- Under ON status, after each pressing of the button on control panel, the air conditioner will give out a sound. Meanwhile, corresponding indicator on control panel will be bright.

- Under OFF status, dual-8 nixie tube on control panel won't display.

- Under ON status, dual-8 nixie tube on control panel will display set temperature under cooling mode, while it won't display under other modes.

Basic Functions of the Control Panel
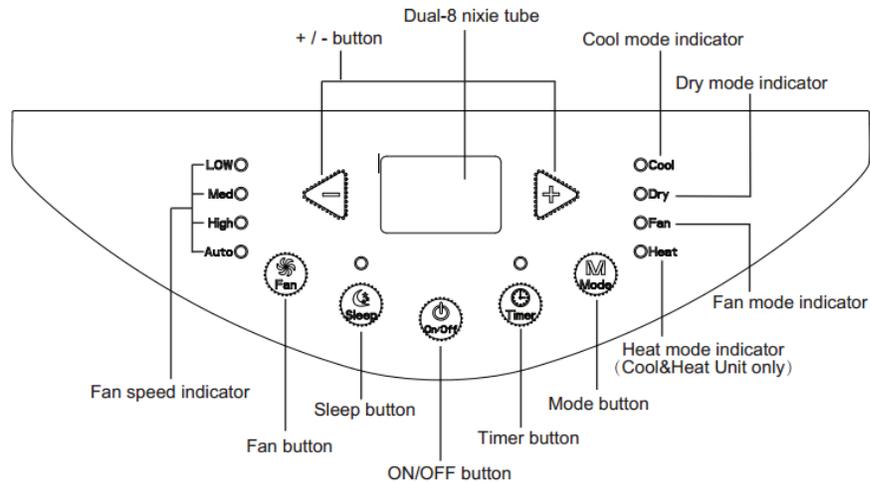
1. **POWER BUTTON**
   Press On/Off button to turn on or turn off the unit.

2. **+ / - BUTTON**
   Under cooling mode, press "+" or "-" button to increase or decrease set temperature by 1°F (°C). Set temperature range is 61°F (16°C) to 86°F (30°C). Under auto, drying or fan mode, this button is invalid.

3. **MODE BUTTON**
   Each time you press the button, a mode is selected in a sequence that goes from COOL, DRY, FAN and HEAT (Heat pump unit only).

   COOL → DRY → FAN → HEAT

   - **Cool:** Under this mode, cooling mode indicator is bright. Dual-8 nixie tube displays set temperature. Temperature setting range is 61°F (16°C) to 86°F (30°C).
   - **Dry:** Under this mode, drying mode indicator is bright. Dual-8 nixie tube won't display.
   - **Fan:** Under this mode, the air conditioner only blow fan. Fan indicator is bright. Dual-8 nixie tube won't display.
   - **Heat (Heat pump unit only)**: Under this mode, heating mode indicator is bright. Dual-8 nixie tube displays set temperature. Temperature setting range is 61°F(16°C) ~86°F(30°C).

4. **FAN BUTTON**
   This button is used to adjust the fan speed in a sequence from low speed, medium speed, high speed to AUTO.

   LOW SPEED → MEDIUM SPEED → HIGH SPEED → AUTO

5. **TIMER**

   Press timer button to enter into timer setting mode.

   press " + " or " - " button to adjust the timer setting.

   Timer setting will increase or decrease 0.5 hour by pressing " + " or " - " button for the first 10 hours, while timer setting will increase or decrease 1 hour by pressing " + " or " - " button beyond 10 hours.

   After timer setting is finished, the unit will display temperature if there's no operation for 5s.

   If timer function is activated, the light indicator will be on.

   To cancel Timer mode press TIMER button.

6. **SLEEP BUTTON**

   Press sleep button to enter sleep mode.

   If the control operates at cooling mode, after sleep mode is activated, preset temperature will increase by 2°F (1°C) within 1 hour; preset temperature will increase by 4°F (2°C) within 2 hours and then the unit will operate at this temperature all the time.

   Sleep function is not available for fan mode, drying mode and auto mode.

Remote Control

NOTE: This is a general use remote control. Some models do not have all the functions indicated by this manual. Some models do not have a remote control or have a different remote control.

Instructions for use of remote control:
- The distance between signal sender and receiving window should be no more than 8 m, and there should be no obstacles between them.
- Replace new batteries of the same model when replacement is required.
- When you don't use remote control for a long time, please take out the batteries.

1. **POWER BUTTON**
   Press On/Off button to turn on or turn off the unit.

2. **MODE BUTTON**
   Pressing this button once can select your required mode circularly as below (the corresponding icon will be lit up after the mode is selected):

   AUTO ► COOL ► DRY ► FAN ► HEAT

- When selecting COOL mode, air conditioner will operate under cool mode. Then press + or - button to adjust set temperature. Press FAN button to adjust fan speed.
- When selecting DRY mode, air conditioner will operate at low fan speed under dry mode. In dry mode, fan speed can't be adjusted.
- When selecting FAN mode, air conditioner will operate in fan mode only. Then press FAN button to adjust fan speed.

- When selecting heat mode, air conditioner will operate under heat mode. Then press + or - button to adjust set temperature. Press FAN button to adjust fan speed. (Cooling only unit can't receive heating mode signal. If set HEAT mode by remote controller, press ON/OFF button can't turn on the air conditioner).
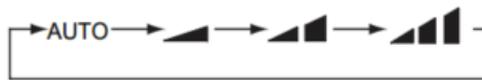
3. **+/- BUTTON**
   Pressing + or - button once will increase or decrease set temperature by 1°F (°C). Hold + or - button for 2s, set temperature on remote control will change quickly. Release the button after your required set temperature is reached.
   Under timer setting status, after each pressing of + or - button, time will increase or decrease.

4. **FAN BUTTON**
   This button is used for setting fan speed in the sequence that goes from AUTO, low, medium to high. Under Auto speed, air conditioner will select proper fan speed automatically according to ambient temperature.
   Fan speed can't be adjusted under Dry mode.

5. **X-FAN BUTTON**
   Press this button under cool and dry mode to start up X-FAN function. Press this button again to cancel X-FAN function.
   When X-FAN function is on, if the air conditioner is turned off, indoor fan will still operate at low speed for a while to blow the residual water inside the air duct.

6. **SLEEP BUTTON**
   Press this button to go into the SLEEP operation mode. Press it again to cancel this function. This function is available in COOL or DRY mode to maintain the most comfortable temperature for you.

7. **TIMER BUTTON**
   Press this button to initiate auto-on/auto-off timer.

   When unit is on, press this button to set Timer Off timer and H icon will be blinking. Within 5s, press + or - button to adjust the time for Timer Off. Pressing + or - button once will increase or decrease the time by 0.5h for the first 10 hours, while timer setting will increase or decrease 1 hour by pressing " + " or " - " button beyond 10 hours. Hold + or - button for 1s, time will change quickly. Release the button after your required set time is reached.

   When unit is off, press this button to set Timer On timer and H icon will be blinking. Within 5s, press + or - button to adjust the time for Timer On. Pressing + or - button once will increase or decrease the time by 0.5h for the first 10 hours, while timer setting will increase or decrease 1 hour by pressing " + " or " - " button beyond 10 hours. Hold + or - button for 1s, time will change quickly. Release the button after your required set time is reached.

   To cancel Timer On/Off, if Timer function is set up, press TIMER button to cancel timer function.

Remote Control

Other functions

➢ **Child lock:**
Press "+" and "-" buttons simultaneously can turn on or turn off child lock function. When child lock function is started up, LOCK indicator on remote control is ON. If you operate the remote control, remote control won't send signal.

➢ **Temperature display switch over function:**
Under OFF status, press "-" button and "MODE" button simultaneously can switch between °C and °F.

➢ **Light function:**
Under switch-on or switch-off state, you may hold "+"and "FAN" buttons simultaneously for 3 seconds to set the lamp on or off and send the code. After being energized the lamp is defaulted on.

Replacement of Batteries in Remote Control

1. Press the mark 🖋- on back cover of batteries box cover with fingers as shown in the figure below, and then remove the batteries box cover along the arrow direction.
2. Replace with two #7 (AAA 1.5V) dry batteries.
3. Make sure positions for "+" pole and "-" pole are correct.
4. Reinstall batteries box cover.

⚠ **WARNING**

- Turn off the unit and disconnect the power before cleaning to avoid electric shock.
- Do not wash the unit with water to avoid electric shock.
- Do not use volatile liquid to clean the unit.

Cleaning the Grille and Case

When there is dust on the case, use soft towel to dust it off.

When the case is very dirty (greasy), use a neutral abluent to clean it.

To clean the air-in grille, use a vacuum cleaner or brush.

Cleaning the heat discharge pipe

Remove the heat discharge pipe from air conditioner, clean and dry it, and then reinstall it.

Cleaning the Filter

1. Remove the filter:
   Press the clasp as shown in the fig, and then remove the filter 1.
   Pull out the filter 2.
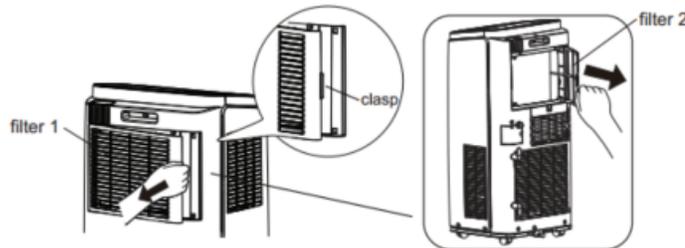
2. Clean filter: use cleaner or water to clean the filter. If the filter is very dirty, use warm water melted with neutral abluent to clean it and then put in a shady place to dry.

3. Install filter: after the filter is cleaned and dried, reinstall it well.

⚠ **WARNING**

- Do not dry the air filter with fire or electric hair dryer. Otherwise the air filter may be deformed or catch on fire.
- The filter should be cleaned about once every three months. If there's much dust in the room the conditioner works, you can increase the cleaning frequency.

Cleaning and Maintenance

Checking Before Usage

1. Check that air inlets and air outlets are not blocked.
2. Check if circuit breaker and connection are in good condition.
3. Check that filters are clean.
4. Check whether batteries in remote control are installed.
5. Check whether joint, window bracket and heat discharge pipe are installed tightly.
6. Check that heat discharge pipe is not damaged.

Checking After Usage

1. Disconnect power supply.
2. Clean filter and case.
3. Remove dust and debris on the unit.
4. Eliminate accumulated water in chassis.
5. Check that window bracket is not damaged.

Long-time Storage

If you won't use the unit for a long time, we suggest that you follow the steps below in order to maintain the unit in good condition.

1. Make sure there is no water in chassis and the heat discharge pipe is disassembled.
2. Unplug the unit and pack the power cord.
3. Clean the unit and wrap it well to prevent the gathering of dust.

Notice for recovery

- Many packing materials are recyclable materials. Please deal with them through local recycle bin.
- If you want to throw away the air conditioner, please contact local division or consultant service center for the correct disposal method.

Malfunction

Malfunction Analysis

Please check below items before asking for servicing. If the malfunction still cannot be eliminated, please contact distributor or manufacturer.

NOTICE: Not all the following problems are malfunctions.

Issue	Possible Causes	Solution
Air conditioner will not operate.	The power supply cord is unplugged.	Plug into grounded 3 prong outlet.
	There is a power failure.	Wait after power recovery.
	The power supply cord trips (Reset button will pop out).	Press and release RESET (listen for click; Reset button will latch and on some devices, a green light will turn on) to resume operation. See below for more details.
	A household fuse has blown, or circuit breaker has tripped.	Replace the fuse or reset the circuit breaker. See below for more details.
	Depending on model, the Power button has not been pressed or the Fan Speed control is turned to Off.	Press POWER button or turn the FAN SPEED control to an active setting.
	The local power has failed.	Wait for power to be restored.
Air conditioner blows fuses or trips circuit breakers.	Too many appliances are being used on the same circuit.	Unplug or relocate appliances that share the same circuit.
	Time-delay fuse or circuit breaker of the wrong capacity is being used.	Replace with a time-delay fuse or circuit breaker of the correct capacity.
	An extension cord is being used.	Do not use an extension cord with this or any other appliance.
	You are trying to restart the air conditioner too soon after turning the unit off.	Wait at least 3 minutes after turning the unit off before trying to restart the air conditioner.
Air conditioner power supply cord trips (Reset button pops out).	Disturbances in your electrical current can trip (Reset button will pop out) the power supply cord.	Press and release RESET (listen for click; Reset button will latch and on some devices, a green light will turn on) to resume operation.
	An electrical overloading, overheating, pinching or aging can trip (Reset button will pop out) the power supply cord.	After correcting the problem, press and release RESET (listen for click; Reset button will latch and on some devices, a green light will turn on) to resume operation.
Air conditioner cycles on and off to much or does not cool.	The power is too low.	Wait after voltage is resumed.
	The filter is dirty or obstructed by debris.	Clean the filter.
	The set temperature is not set properly.	Adjust the temperature.
	Windows or doors to the outside are open.	Close all windows and doors.

Malfunction

Malfunction Analysis

Issue	Possible Causes	Solution
Air conditioner can't receive signal from remote control or remote control is not sensible.	The unit is interfered seriously (such as static pressure, unstable voltage).	Please pull out the plug. Insert the plug after about 3 minutes, and then turn on the unit.
	Remote control is not within the receiving range.	The receiving range of remote controller is 8 m. Do not exceed this range.
	It's blocked by obstacles.	Remove the obstacles.
	Sensitivity of remote control low.	Check the batteries of remote control. If the power is low, please replace the batteries.
	There's a fluorescence lamp in the room.	Move the remote control close to the air conditioner. Turn off lamp and try it again.
Set temperature can't be adjusted.	The unit operates under auto mode.	Temperature can't be adjusted under auto mode.
	The required temperature exceeds the temperature setting range.	Temperature setting range is 61°F (16°C) to 86°F (30°C).
Air conditioner does not blow air (fan not working).	The louvers are blocked.	Install the air conditioner in a location where the louvers are free from curtains, blinds, furniture, etc.
	The unit reaches set temperature under heating mode.	The unit will stop blowing fan after temperature is reached.
	Heating mode has started up.	In order to prevent cold air, the unit will delay start up.
	The evaporator is frosted.	The unit is defrosting and will resume after.
It smells bad.	There is an unusual source of odor in the room, such as furniture, cigarettes, etc.	Eliminate the source or odor.
		Clean the filter.
There's an abnormal sound during operation.	The unit is interfered by thunder, radio, etc.	Disconnect power, put through power again, and then turn on the unit.
You can hear a water-flowing sound.	The unit is turned on or turned off.	There's a flowing sound of refrigerant inside the air conditioner, which is normal.

Error Codes

When appliance status is abnormal, temperature indicator on the unit will blink and display corresponding error code. Please refer to list below for identification of error code.

| Display Code	Malfunction Name	Possibles Causes
H8	Chassis is full of water.	1. Pour out the water inside chassis. 2. If "H8" still exits, please contact professional person to maintain the unit.
F1	Malfunction of ambient temperature sensor.	Please contact professional person to deal with it.
F2	Malfunction of evaporator temperature sensor.	Please contact professional person to deal with it.
F0	1.Refrigerant is leaking 2.System is blocked	1. Re-energize the unit after turning off and pulling out the plug for 30 minutes; 2. If there's still malfunction, please contact after-sales service
H3	Overload protection for compressor	1. Check if the unit is under high-temperature and high-humidity environment; if ambient temperature is too high, power off the unit and then energize it for operation after the ambient temperature drops to 0 below. 2. Check if the evaporator and condenser are blocked by some objects; if yes, take away the objects, power off the unit and then energize it for operation. 3. If the malfunction still occurs, please contact our after-sales service center.
E5	Overcurrent protection	1. Disconnect power and then turn on the unit again after 10 min. If E5 is still on, please contact a professional.
E8	Overload malfunction	1. Check if the unit is under high-temperature and high-humidity environment; if ambient temperature is too high, power off the unit and then energize it for operation after the ambient temperature drops to 0 below. 2. Check if the evaporator and condenser are blocked by some objects; if yes, take away the objects, power off the unit and then energize it for operation. 3. If the malfunction still occurs, please contact our after-sales service center.
F4	Outdoor tube temperature sensor is open/short-circuited.	Please contact after-sale service person to deal with it.

Error Codes

⚠ **WARNING**

- If the following phenomena occur, please turn off the air conditioner and disconnect the power immediately, and then contact dealer immediately.
    - → Power cord is overheating or damaged.
    - → Abnormal sound during operation.
    - → Odour.
    - → Water leakage.
- Do not repair or refit the air conditioner by yourself.
- If operating the air conditioner under abnormal conditions, it may cause malfunction, electric shock or fire hazard.
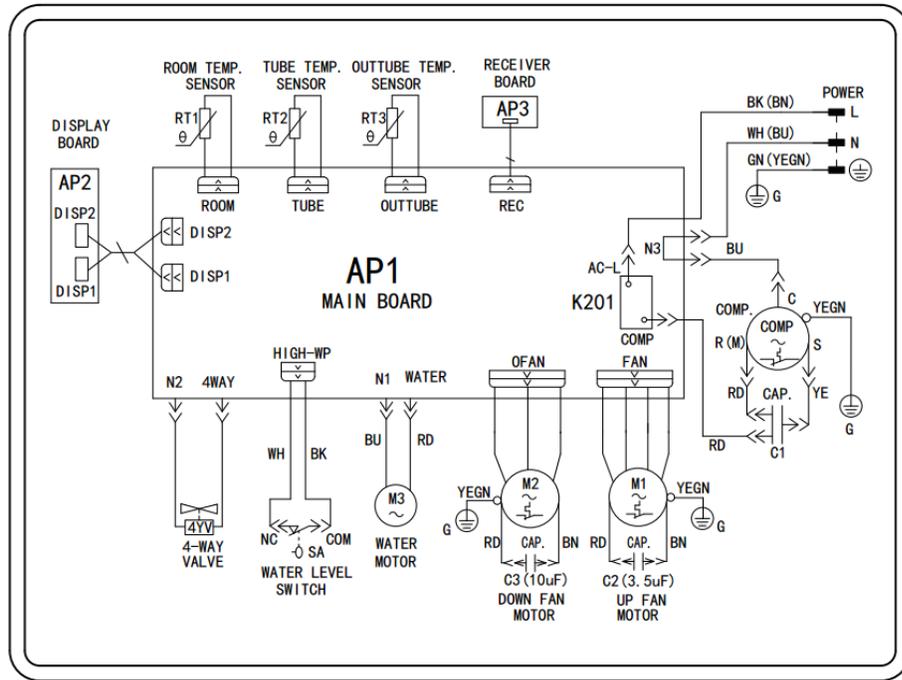
Electric Schematic Diagram

NOTICE: The electric schematic diagram is subject o change without notice.

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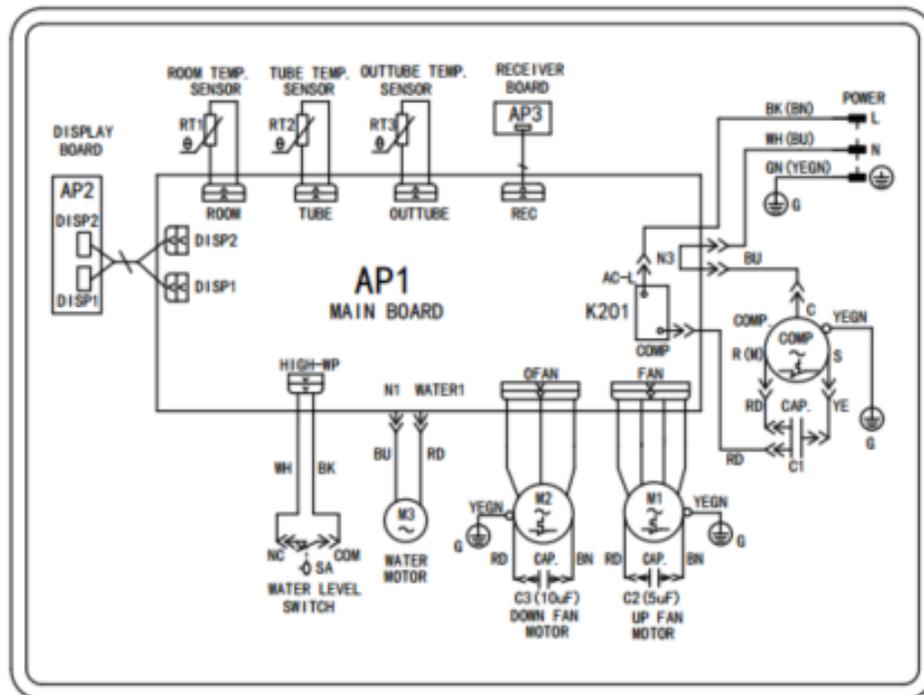
GPH08AL-A3NNA1B

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1 800 463-7043

Before returning the unit to the retailer, for any problem related to the installation, use or proper functioning of the unit; contact our technical support department. One of our agents will guide you through the next steps.
Products have a limited warranty of one upon presentation of proof of purchase

Before calling for assistance or service, please check "Troubleshooting." It may save you the cost of a service call.

If you still need help, follow the instructions below.
Please know the purchase date, the complete model and serial number of your appliance.
This information will help us to better respond to your request.

If you need replacement parts: We recommend that you use only factory-authorized replacement parts. These replacement parts will fit right and work right because they are made with the same precision used to build every new appliance.
To locate factory-authorized replacement parts in your area, call us or your nearest designated service center.

Whenever you call to request service on your appliance, you need to know your complete model number and serial number. You can find this information on the model and serial number label.

Please record the model and serial number information below. Also, make sure you keep the purchase invoice of your air conditioner.

Model Number	_____
Serial Number	_____
Purchase Date	_____
Store Name	_____