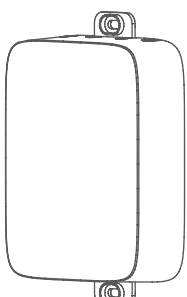
ADAPTER PLATE (24 V)
Installation and User's Manual



IMPORTANT NOTE

Please read this manual carefully before installing or operating your adapter plate. Make sure to save this manual for future reference.

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- This manual provides a detailed description of the precautions that should be taken into consideration during operation.
- To ensure the correct service of the wired controller, please read this manual carefully before using the unit.
- For the convenience of future reference, keep this manual after reading it.
- All the pictures in this manual are for explanatory purposes only. There may be slightly different from the wired controller you purchased (depending on the model). The actual shape shall prevail.

Safety Precautions

To ensure your safety and avoid damage to the device please read the safety precautions.

Look out for these icons. They indicate useful tips and important reminders.



WARNING

This symbol indicates the possibility of personnel injury or loss of life.

NOTE

Are prompts to take certain precautions or follow specific steps during the installation process.

⚠WARNING

- Please entrust the distributor or professionals to install the unit.
- Installation by other persons may lead to imperfect installation, electric shock, or fire.
- Adhere to this installation manual.
- Improper installation may lead to an electric shock or fire.
- Reinstallation must be performed by professionals.
- Do not uninstall the unit randomly.
- Randomly uninstalling may lead to abnormal operation, overheating, or a fire in the air conditioner.

NOTE

- Do not install the unit in a location that is susceptible to leakage of flammable gases. If flammable gases escape and accumulate around the wire controller, a fire may occur.
- Do not operate with wet hands or let water enter the wire controller. Otherwise, an electric shock may occur.

- The wiring should adapt to the wire controller's current. Otherwise, electric leaks or overheating may occur and result in fire.
- The specified cables shall be applied in the wiring. No external force may be applied to the terminal. Otherwise, wire cutting and heating may occur and result in fire.

Installation Accessory

Select the installation location

Don't install in a place with heavy oil, vapor, or sulfureted gas; otherwise, this product would be deformed, which would lead to system malfunction.

Preparation before installation

1. Please confirm that all the following parts have been supplied.

No.	Name	Qty.	Description
1	Adapter plate (24v)	1	---
2	Installation and Owners Manual	1	---
3	Screws	2	M3.9*25 (For wall mounting)
4	Wall plugs	2	For wall mounting
5	The connective wire bundle	3	Separately for connecting the internal board and adapter plate (24 V)
6	Screw	1	M4*8 (For Mounting the connective wire bundle)
7	Transformer	1	For use only on 24-volt circuits, and buy it yourself

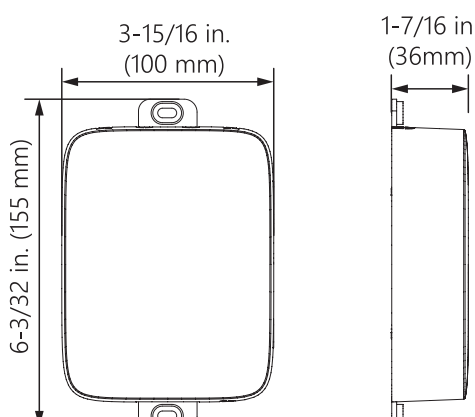
2. Prepare the following assemblies on the site.

No.	Name	Qty. (embeded into wall)
1	Screwdriver set	1

Precautions for installing the adapter plate

1. This manual provides the installation method of the adapter plate. Please refer to the wiring diagram of this installation manual to connect the adapter plate to the indoor unit.
2. The adapter plate works in low voltage loop circuit. Do not directly connect high voltage (115 VAC, 220 VAC, 380 VAC) to a low voltage loop circuit; wiring clearance between high and low voltage should be in the range of 11-13/16 - 19-11/16 in. (300~500 mm) or above.
3. The Shielded wire of the wire controller must be grounded firmly.
4. Upon installation of the adapter plate connections, do not use an insulation meter (Megger) to check the insulation.

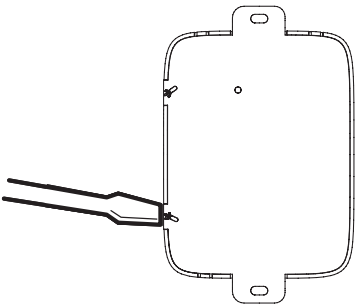
Installation Method



Adapter Plate Structural Dimensions

Remove The Upper Part Of The Adapter Plate

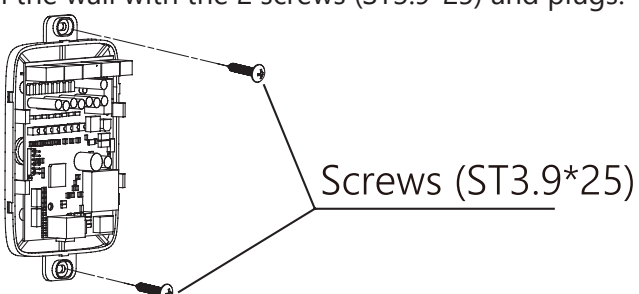
1. Insert a slot screwdriver into the slots in the lower part of the adapter plate (2 places) and remove the upper part of the adapter plate.



NOTE: Do not pry up and down; you can only rotate the screwdriver.

NOTE: The PCB is mounted in the upper part of the wire controller. Be careful not to damage the board with the slot screwdriver.

2. For exposed mounting, fasten the back plate on the wall with the 2 screws (ST3.9*25) and plugs.

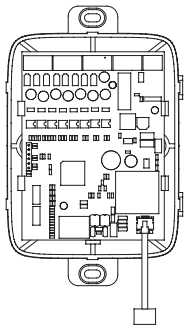


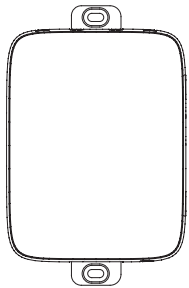
Fasten The Back Plate Of The Wired Controller

NOTE

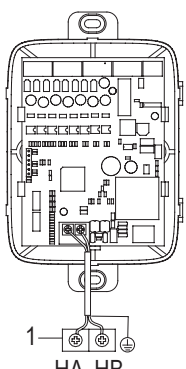
Put on a flat surface. Be careful not to distort the back plate of the wire controller by overtightening the mounting screws.

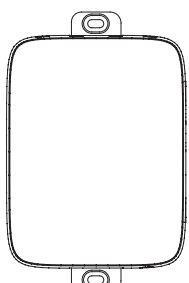
Wire The Indoor Unit





CONNECTION 1#

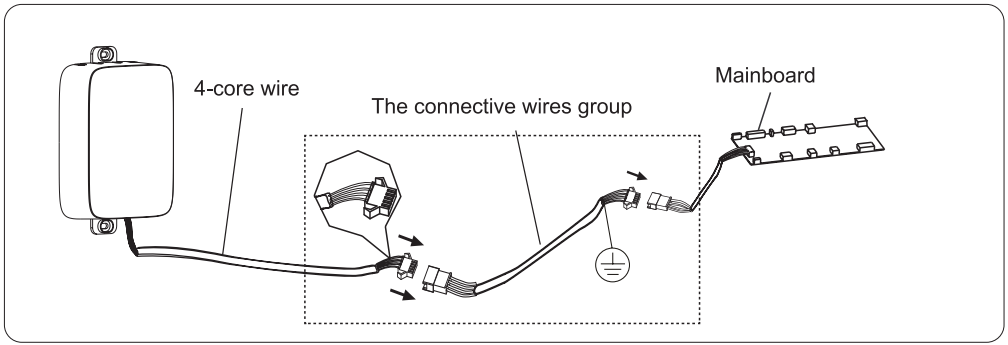




CONNECTION 2#

CONNECTION 1#

Connect the wire from the display panel of the indoor unit to a connecting cable. Then connect the other side of the connecting cable to the remote control.



CONNECTION 2#

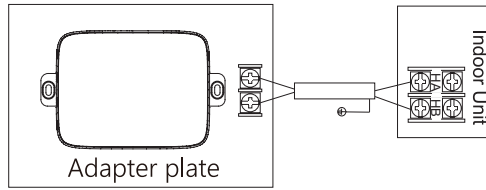
1 Indoor unit

Notch the part for the wiring to pass through with nippers, etc. Connect the terminals on the wired controller (HA, HB), and the terminals of the indoor unit (HA, HB). (HA and HB do not have polarity.)

NOTE

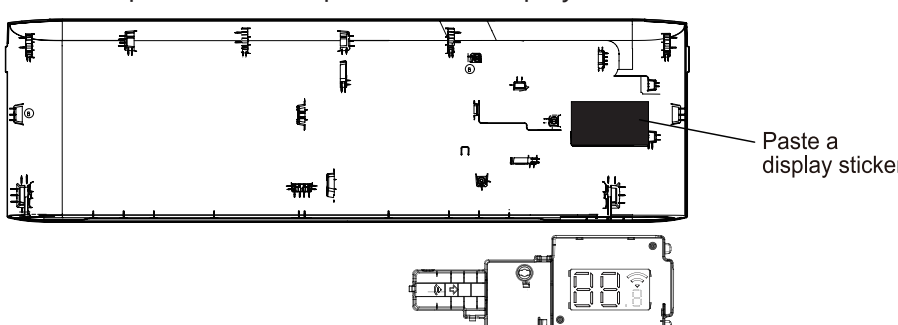
- **DO NOT** allow water to enter the adapter plate. Use tape and putty to seal the wires.
- Connecting wires must be attached reliably and cannot be pulled.

For some units, the wire controller connects to the unit HA and HB ports. There is no polarity between HA and HB.

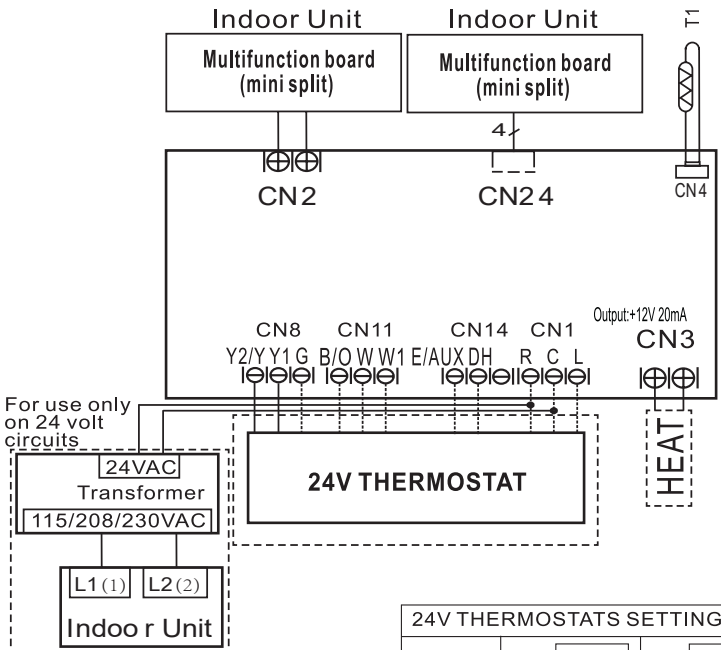


1. When the digital display is turned off, when the 24 V small box is used with the internal machine, the internal digital display will be turned off every 5 minutes and 15 seconds, or the digital display will be lit.
2. When the 24 V Mini box is connected and used, send it to the air conditioner to set the temperature for the virtual simulation to ensure that the air conditioner can be switched on and off according to the thermostat; When the user turns on the digital display, there will be a difference between the value displayed by the double 8 of the internal unit and the actual temperature value set by the thermostat.

Solution: Use a display sticker to cover the display board of the internal machine and paste it on the panel of the display area.



Wiring Diagram

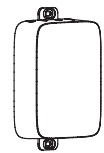


1. [ ] This symbol indicates the element is optional, the actual shape shall prevail.

24V THERMOSTATS SETTING			
	SW1 ON 1 2 3 4	SW2 ON 1 2 3 4	SW3 ON 1 2 3 4
code	ON~OFF	ON~OFF	ON~OFF
factory setting	✓	✓	✓

Reattach The Upper Part Of The Adapter Plate

After adjusting the upper case and then securing it, avoid clamping the wiring while installing the cover.



Wiring Specification

5V~24V
23°F~110°F (-5°C~43°C)
RH 40%~RH 90%

NOTE

It is suggested use a connective wire that is 20 ft. (6 m) in length.

Application

This system is designed for operation with standard 24-vac HVAC thermostats. Wireless standard configuration HVAC thermostats may be used, such as NEST, Ecobee, Honeywell, etc.

NOTE

The T1 room temperature sensor is placed in the indoor space to detect the ambient temperature of the room.

1. When the user uses the thermostat to control the split air conditioner, the fan of the indoor unit may stop running when the thermostat changes from the heating mode, heating & electric heating mode, to the air supply mode. This design ensures that the anti-cold-air function of the split air

conditioner remains effective after the thermostat has reached the set temperature. The fan will stop when the evaporator temperature is low, and the fan will not stop when the temperature of the evaporator is high.

2. When the user uses the thermostat to control the multi-split air conditioner and the thermostat mode is changed from the heating mode, heating + electric heating mode, to the air mode, the fan of the indoor unit may stop running. This is designed to ensure that the thermostat can still normalize the frost after reaching the heating temperature set by the thermostat.
3. When the thermostat to connect this product is used to control the air conditioner, and when the thermostat is on, the remote control is only used for the wind swing function of the air conditioner, and the remote control for the air conditioner can not be used for other functions.

Dialing Codes

Cooling Fan Speed					
Dial Code	**1**	**2**	**3**	**4**	**5**
SW1-1	OFF	OFF	OFF	OFF	ON
SW1-2	OFF	OFF	ON	ON	OFF
SW1-3	OFF	ON	OFF	ON	OFF
FUNCTION	Auto Fan (Default)	Low	Middle	High	Turbo

Heating Fan Speed					
Dial Code	**1**	**2**	**3**	**4**	**5**
SW1-4	OFF	OFF	OFF	OFF	ON
SW2-1	OFF	OFF	ON	ON	OFF
SW2-2	OFF	ON	OFF	ON	OFF
FUNCTION	Auto Fan (Default)	Low	Middle	High	Turbo

NO.	Dial Code	FUNCTION	ON	OFF	NOTE
1	SW2-3	Set type selection, multi-split, and split model selection	Multi-split	Split	
2	SW2-4	Split selective dialing code 1	See Table 1 for a description of the dialing code options for the split model	See Table 1 for a description of the dialing code options for the split model	Split AB models and multi-split do not have this function.
4	SW3-2	Prolonged non-temperature time setting	60 minutes	30 minutes	
5	SW3-3	Heat port on/ off temperature difference	2F	4F	Split AB models do not have this function.
6	SW3-4	Split selective dialing code 2	See Table 1 for a description of the dialing code options for the split model	See Table 1 for a description of the dialing code options for the split model	This code is valid only when the SW2-4 dialing code is OFF. Split AB models do not have this function.

Table 1

DIP SWITCH SETTING WITH DIFFERENT COMBINATIONS				
Combination	**SW2-3**	**SW2-4**	**SW3-4**	**NOTE**
Indoor unit type 1(GA) + split outdoor unit type 2 (Not GA)	OFF	OFF	OFF	De-fault
Indoor unit type 1(GA) + split outdoor unit type 1(GA)	OFF	ON	*	
Indoor unit type 2 (Not GA) + split z outdoor unit type 1(GA) or In-door unit type 2 (Not GA) +split outdoor unit type 2 (Not GA)	OFF	OFF	ON	
Indoor unit type 1(GA) +multi-split outdoor unit	ON	*	OFF	
Indoor unit type 2(Not GA) + multi-split outdoor unit	ON	*	ON	

Note: Indoor unit type and outdoor unit type are queried according to the model code.

Interface Input Description

Connector	**Purpose**
G	Fan Control
Y1	1st stage compressor
Y2/Y	2nd stage compressor or 1 stage only thermostat
B/O	Reversing valve
W	Heating control
W1	Electric Heating
E/AUX	Emergency Heating
DH	Dehumidification
L	Malfunction signal
R	24 V Power Connection
C	Common

1. When you use the thermostat to control the air conditioner, the dehumidification mode is not supported.
2. For does not support the model of electric heat auxiliary, separate open. When emergency heating, the electric heating thermostat inputs this product according to the heating mode control air conditioning, for no charge for auxiliary heat module model, when the thermostat inputs Heating + auxiliary electric heating mode, emergency electric auxiliary heating mode, and single electric heating model, the product controls the air conditioning heating mode.

24V Signal Chart

24V input terminal											
Mode	**Priority**	**G**	**Y1**	**Y2**	**B/O**	**W**	**W1**	**E/AUX**	**DH**	**Fan speed**	**NOTE**
OFF	/	0	0	0	0	0	0	0	*	OFF	
FAN	6	1	0	0	*	0	0	0	*	Low	NOTE 1
Cooling stage 1	5	*	1	0	0	0	0	0	*	Dialing code Fan Speed	
Cooling stage 2		*	*	1	0	0	0	0	*	Dialing code Fan Speed	
Heat pump stage 1		*	1	0	1	0	0	0	*	Dialing code Fan Speed	
Heat pump stage 2	4	*	*	1	1	0	0	0	*	Dialing code Fan Speed	
Heat pump stage 2		*	*	*	*	1	0	0	*	Dialing code Fan Speed	
Electric heater kit 1	2	*	0	0	*	0	1	0	*	Turbo	NOTE 2

24V input terminal											
Mode	**Priority**	**G**	**Y1**	**Y2**	**B/O**	**W**	**W1**	**E/AUX**	**DH**	**Fan speed**	**NOTE**
Heat pump stage 1 + Electric heater kit 1	3	*	1	0	1	0	1	0	*	Turbo	NOTE 3
Heat pump stage 2 + Electric heater kit 1		*	*	1	1	0	1	0	*	Turbo	NOTE 3
Heat pump stage 2 + Electric heater kit 1		*	*	*	*	1	1	0	*	Turbo	NOTE 3
Emergency heat	1	*	*	*	*	*	*	1	*	Turbo	NOTE 2

NOTE 1:

a. For a multizone indoor unit, when the heating mode is transferred to the fan mode, the fan of the indoor unit will stop running.

b. For a single-zone indoor unit, when the heating mode is transferred to the fan mode, the anti-cold-air function is effective.

c. When the OFF mode or cooling mode is transferred to the fan mode, the fan of the indoor unit will run at a low speed.

NOTE 2: When the indoor unit does not support auxiliary heating only mode, the indoor unit operates in heating mode.

NOTE 3: When the indoor unit does not have the electric auxiliary heating function, the indoor unit operates in heating mode.

The design and specifications are subject to change without prior notice for product improvement. Consult with the sales agency or manufacturer for details.

United States

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