PAC-SJ95MA-E

## INSTALLATION MANUAL FOR A-M CONVERTER

For models in which this component is used, see the separate sheet.

# SAFETY PRECAUTIONS

•Before starting installation, read the "Safety Precautions" described below.

•The following precautions must be observed as it describes the serious matters for safety.

•The safety precautions are described with the degree of danger.

When you handle wrong, it can lead to death or serious injury.						
When you handle wrong, it can lead to injury or damage to building and furniture.						

•After installation, make test operation and confirm that it works properly, and explain the safety precautions, operation method, and maintenance to your customers.

Tell your customers to keep this installation manual together with operation manual with them, and when they give or sell this machine to other person put this installation manual and operation manual with it.

## **≜**WARNING

The installation must be done by dealer or qualified person The wiring must be securely done by using proper cable. The wires should be connected to the terminals not to have external force of the cable. ·If the customers do the installation by themselves and it is not perfectly installed it can cause water leak, electric shock, or fire. Faulty connections can cause heat or fire. The installation must be done in accordance with this manual The terminal cover (panel) of the unit must be installed securely •If the installation is not perfectly done, it can cause water leak, electric •Faulty installation can cause fire or electric shock by dust or water. shock, or fire, The electric installation must be done by qualified person in accordance Never try any modification. with this installation manual. Use the separate circuit only for this machine and use rated voltage and circuit breaker. For repair, ask your dealer If the machine is not modified or repaired completely, it can cause water ·If the electric circuit power is not sufficient or the wiring is not properly leak, electric shock, or fire, done, it can cause electric shock or fire. Never move or reinstall the machine by the customers. •If the installation is not perfectly done, it can cause water leak, electric shock, or fire. Ask your dealer or qualified person.

## Before electric wiring

∠ CAUTION								
Install a circuit breaker depending upon the location.	Put ground wire.							
•Without a circuit breaker, it can cause electric shock.	•Never ground to gas pipe, water pipe, lightning conductor, or telephone ground wire.							
Use standard wires which meet current capacity.	Faulty ground can cause electric shock.							
•Otherwise, it can cause short-circuit, heat, or fire.	Wires must not have tension.							
	•It can cause snipping, heat, or fire.							

## Before test operation

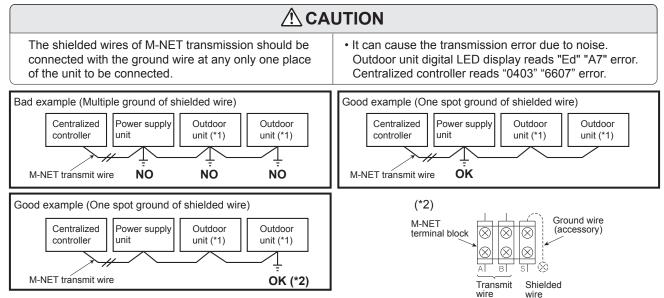
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Turn the power on 12 hours or more before operation.	Never operate the switches with your hand wet.					
•If you start operation as soon as the power on, it can cause failure.	•It can cause electric shock.					
Never turn the power off during season.	Never touch refrigerant pipes while the machine running.					
Never operate the machine without panel or guard off.	•The refrigerant pipes becomes high and low temperature while the					
<ul> <li>It can cause serious injury being caught by rotating part or burn or electric shock by high voltage part.</li> </ul>	machine running. If you touch the pipes by hand, it can cause chilblain or burn.					
Never operate the machine without air filter off.	Never turn the power off as soon as the machine stops.					
•It can cause failure by dust.	•Wait for 5 minutes or more. It can cause water leak or failure.					

## Attention for M-NET connection

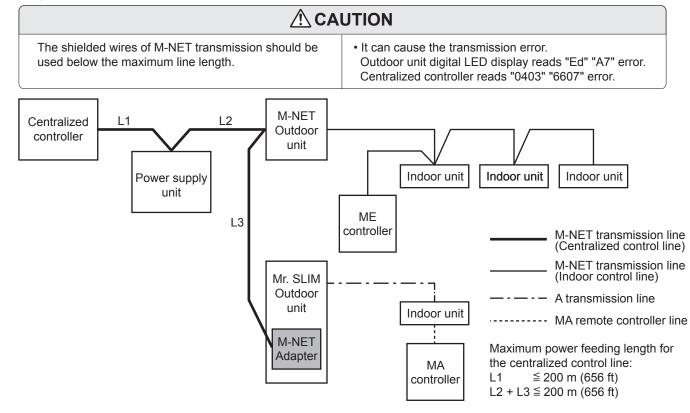
Pay attention to the next points for wiring of shielded wires.

(1) Ground wire connection



- (\*1) Refer to the appendix List of Models to check the applicable models.
- (\*2) In case that the outdoor unit is grounded, connect the ground wire supplied as accessory to the S terminal (secondary) of M-NET terminal block and M-NET ground terminal inside of electric box with using screws supplied.
- Note: If the shield and earth are grounded in two or more locations, electrical circuit is generated through them, and a potential difference is created because of the impedance difference between or among the ground locations. This may cause noise in the shield. Ground at only one point, then no circuit is created and no noise gets in.

(2) Length of M-NET transmission line



(3) Using dual set point

- 1. To activate dual set point, make sure that all units and controllers in one group have dual set point function.
- 2. To change the temperature display setting of existing group from single to dual set point, make sure to restart the whole system related.
- 3. When ME remote controller is included in same group in the case of 2, make sure to initialize\* ME remote controller before use.

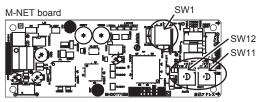
(\*Refer to the ME remote controller installation manual. <Service Menu.>)

1.	1.Parts List										
No.	Description	Q'ty	Applicable models							Note	
110.	Description	Figure	Qiy	Α	В	С	D	E	F	G	Note
1	M-NET board (with insulation sheets and supports)		1	0	0	0	0	0	0	0	
2	Plate1 (For mounting M-NET board)	0 0 0 0 0 0	1	0							
3	Plate2 (For mounting M-NET board)	0 0 0 0	1			0					
4	Plate3 (For mounting M-NET board)	ि <u>ि</u> ० ० ुर्ग० ०	1						0		
	Insulation sheets	S	S 1	0							
5	S, $\mathbb{M}$ , $\mathbb{O}$		◎ 1	0							
			0 1	0	0						
6	Screw (M4×8)	Elite	2	(1)		(2)			) (2)		
7	Terminal block (M-NET)	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	1	0	0	0	0	0	0	0	
8	Terminal screw (M3×20)	LE STREET	1	0	0	0	0	0	0	0	
9	Label	CENTRALIZED CONTROL(M-NET)	1	0	0	0	0	0	0	0	
10	Lead wire-A (5 wires)	Color: Red Length: 380 mm (15 inch)	1	0	0	0		0	0	0	Wire Marking : INV type Always make sure that the markings and the applicable model match. If used incorrectly, parts could be damaged.
11	Lead wire-B (5 wires)	Color: White	1				0				Wire Marking : NON-INV Always make sure that the markings and the applicable model match. If used incorrectly, parts could be damaged.
(12)	Lead wire-C (3 wires)	Length: 480 mm (19 inch)	1	0	0	0	0	0	0	0	
13	Lead wire-D (2 wires)	Length: 680 mm (27 inch)	1	0	0	0	0	0	0	0	
14)	Ground wire and screw (M4×8)	<sup>00</sup>	1 each	(())	(())	(())	(0)	(())	(0)	(())	
15	Fastener		2	0	0	0	0	0	0	0	

### 2.Switch setting

#### Before installation

Set switch on M-NET board in advance before installing on the electrical parts box.



#### (1) M-NET address setting

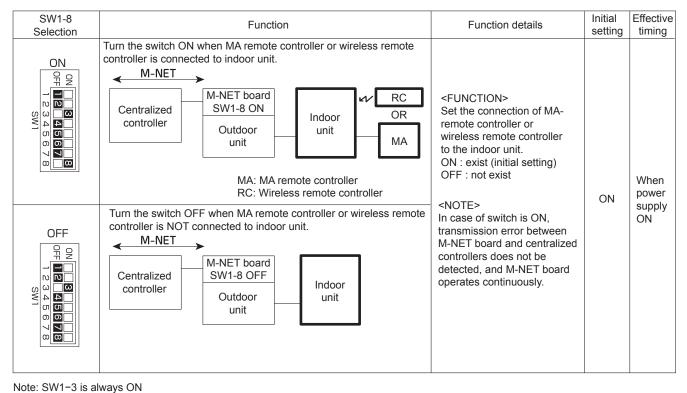
The setting should be done by rotary switches SW11 and SW12 on M-NET board. (Factory settings are all Zero) Make sure to set M-NET address within the range of 01 to 50.

When installing two or more outdoor units, do not use the same number more than once for M-NET address.

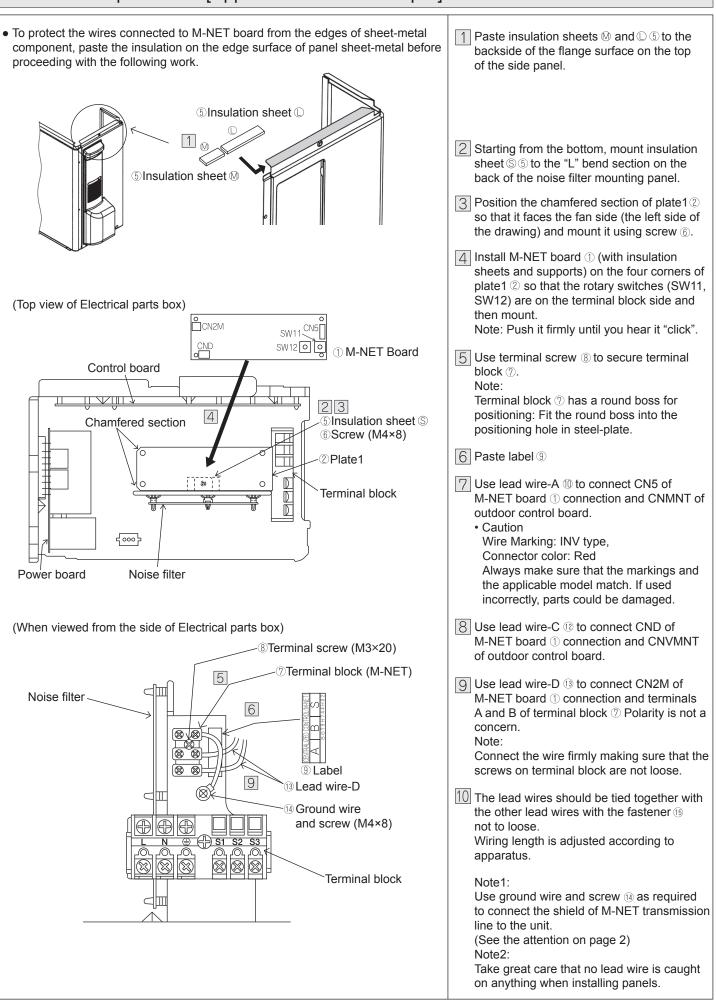


	-			_	
M-NET	address No.	1	2		50
Switch setting	SW 11 (Ones digit)				
	SW 12 (Tens digit)		200 000 000 000		

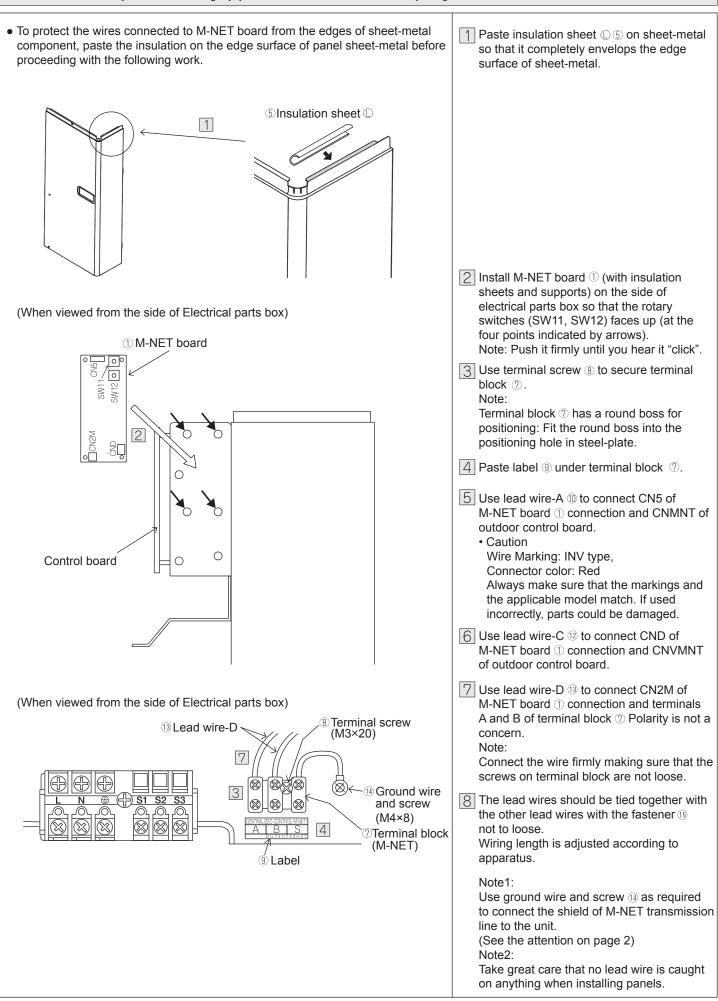
#### (2) Switch 1-8 setting



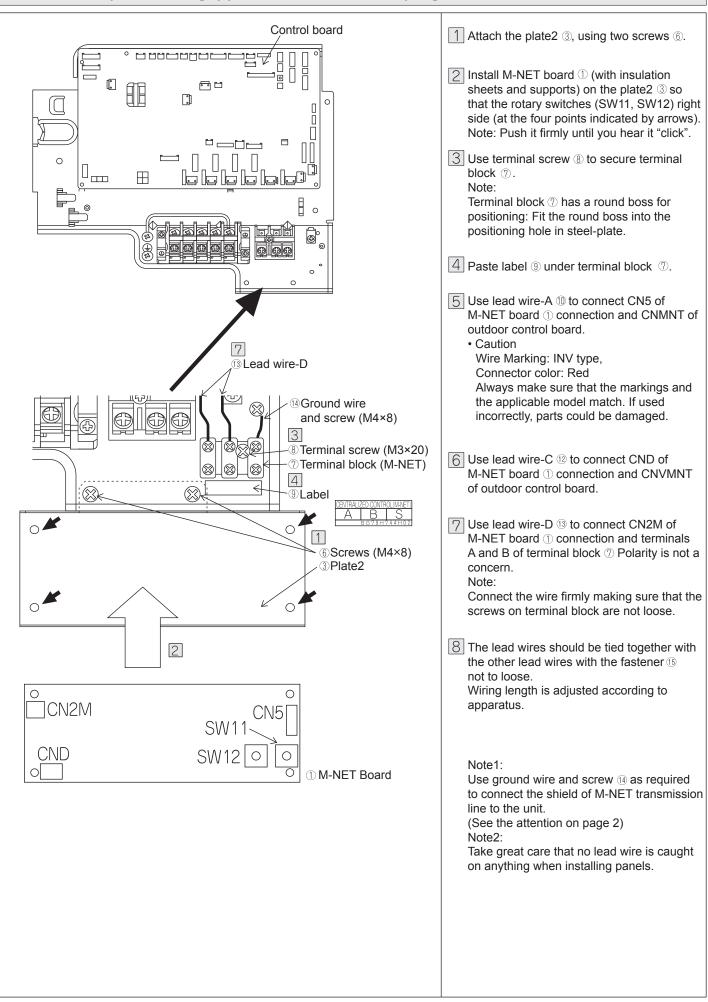
## 3.Installation procedure [Applicable model : Group A]



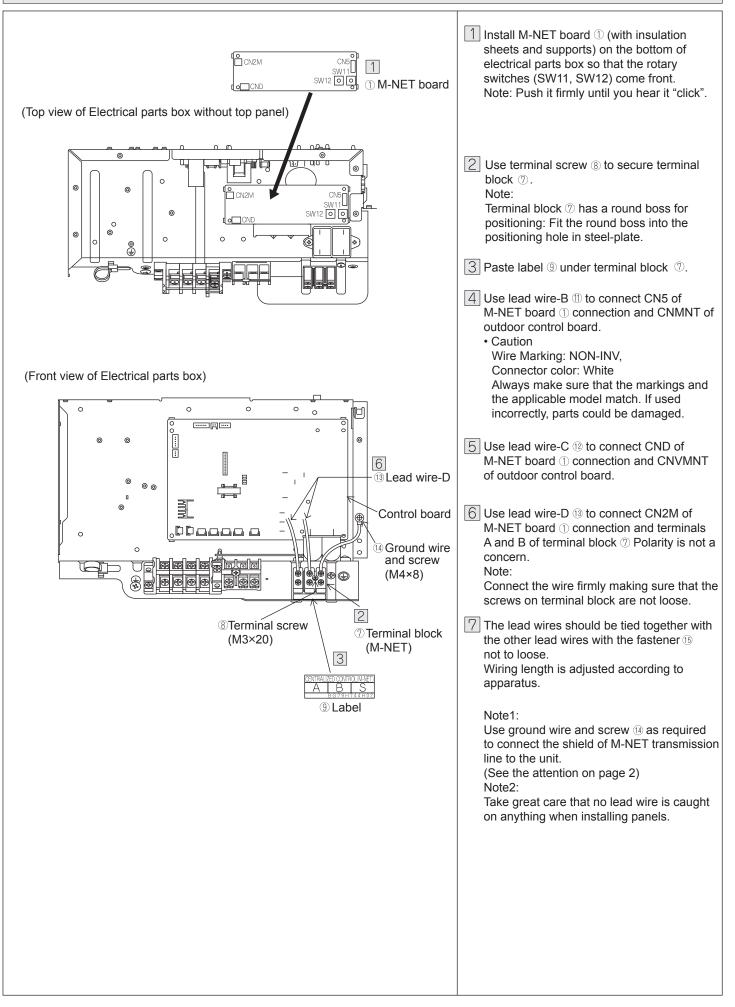
## 3.Installation procedure [Applicable model : Group B]



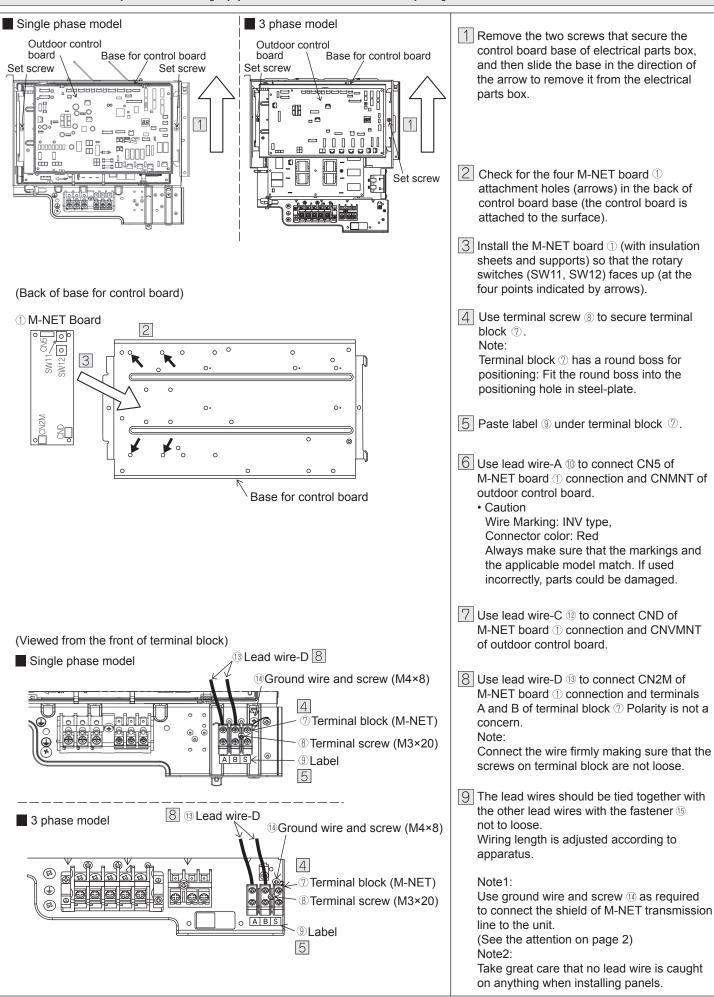
## 3.Installation procedure [Applicable model : Group C]



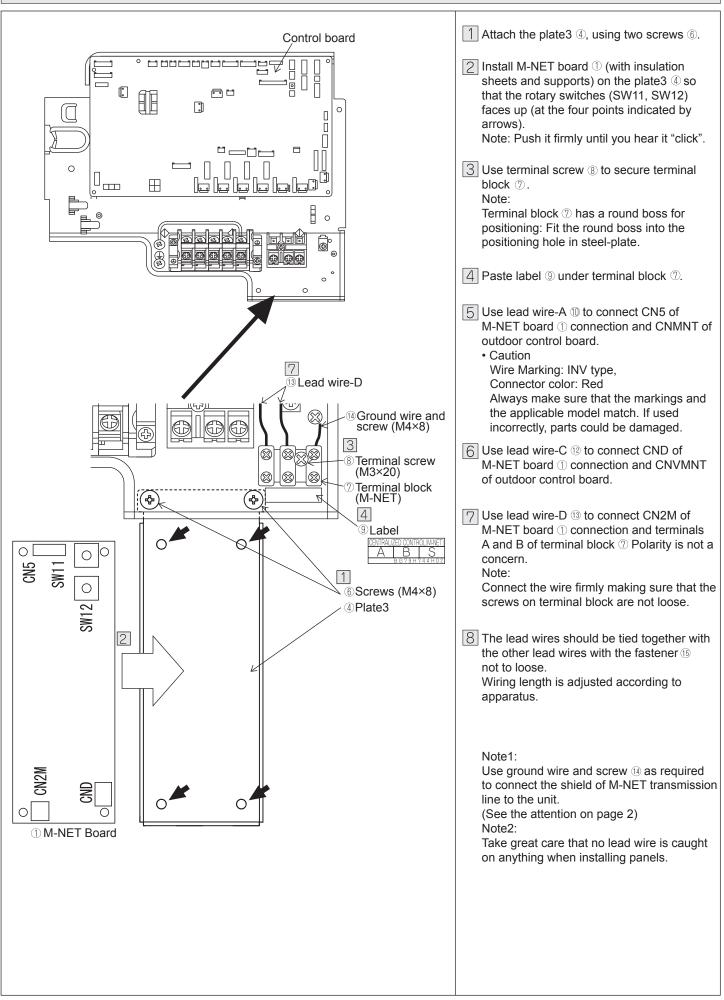
## 3.Installation procedure [Applicable model : Group D]



### 3.Installation procedure [Applicable model : Group E]



## 3.Installation procedure [Applicable model : Group F]



### 3.Installation procedure [Applicable model : Group G]

