SPLIT TYPE ROOM AIR CONDITIONER

INSTALLATION INSTRUCTION SHEET

(PART NO. 9373896012)

For	authorized	service	personnel	only.	

WARNING	This mark indicates procedures which, if improperly performed, might lead to the death or serious injury of the user.	l
	This mark indicates procedures which, if improperly performed, might possibly result in personal harm to the user, or damage to property.	l
	WARNING	ı

△ WARNING	ı
(1) For the room air conditioner to operate satisfactorily, install it as outlined in this installation instruction sheet.	ı
(2) Connect the indoor unit and outdoor unit with the room air conditioner piping and cords available standards parts. This installation instruction sheet describes the correct connections using the installation set available from our standard parts.	l
(3) Installation work must be performed in accordance with national wiring standards by authorized personnel only.	ı
(4) If refrigerant leaks while work is being carried out, ventilate the area. If the refrigerant comes in contact with a flame, it produces a toxic gas.	l

SELECTING THE MOUNTING POSITION

△warning			
Install at a place that can withstand the weight of the indoor and outdoor units and install positively so that the units will not topple or fall.			
△ CAUTION			
(1) Do not install where there is the danger of combustible gas leakage.			
(2) Do not install near heat sources.			
The deliberation of the second			

STANDARD ACCESSORIES

Name and Shape O'ty Use					
The second second	1	For indoor unit installation			
Personal control unit	1	Use for air conditioner operation			
Battery (penlight)	2	For remote control unit			
Flemate control unit holder	1	Use as remote control unit holder			
Tapping screw (big) (o4 × 20)	12	For wall hook bracket installation			
Tapping screw (small) (si3 × 12)	2	For remote control unit holder installation			

Tapping scre (e3 × 12)	Omme (mail)	2	For remote control unit holder installation
OUTDOOR	R UNIT ACC	ESSO	RIES
	ind Shape	Q'ty	Application
		O'ty	Application For outdoor unit drain piping work Pleast & Cool model

INSTALLATION PROCEDURE





























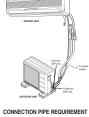


Table 1				
Dian	neter	Maximum	Maximum Height (between indoor and outdoor)	
Small	Large	length		
9.52 mm (38 in.)	15.00 mm (5/0 in.)	20 m (66 ft)	8 m (26 ft)	
 Use 0.7 mm to 1 Use pipe that cr 		sure of 3,040	kPa.	

ELECTRICAL REQUIREMENT





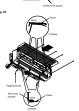


























- (2) Match the terminal block numbers and connection cord colors of the indoor unit and the outdoor unit. Erroneous wiring may cause burning of the electric parts.
- (3) Connect the connection cords firmly to the terminal block. Imperfect installation may cause a fire.
- (4) Always fasten the outside covering of the connection cord with the cord clamp. (If the insulator is chafed, electric leakage may occur.)
- (5) Always connect the ground wire.

HOW TO CONNECT WIRING TO THE TERMINALS

A. For solid core wiring (or F-cable)

- (1) Cut the wire end with a wire cutter or wire-cutting pliers, then strip the insulation to about 25 mm (15/16") to expose the solid wire. 2) Using a screwdriver, remove the terminal screw(s) on the terminal
- (3) Using pliers, bend the solid wire to form a loop suitable for the
-) Shape the loop wire properly, place it on the terminal board and tighten securely with the terminal screw using a screwdriver.

B. For strand wiring

- 1) Cut the wire end with a wire cutter or wire-cutting pliers, then strip the insulation to about 10 mm (3/8") to expose the strand wiring. 2) Using a screwdriver, remove the terminal screw(s) on the terminal
- (3) Using a round terminal fastener or pliers, securely clamp a round terminal to each stripped wire end.
-) Position the round terminal wire, and replace and tighten the terminal screw using a screwdriver.



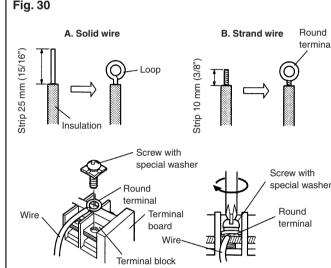
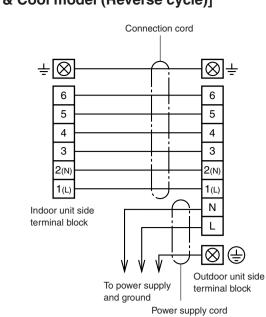
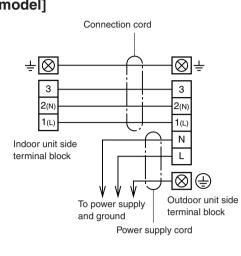


Fig. 31

[Heat & Cool model (Reverse cycle)]

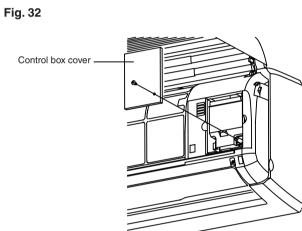


[Cooling model]

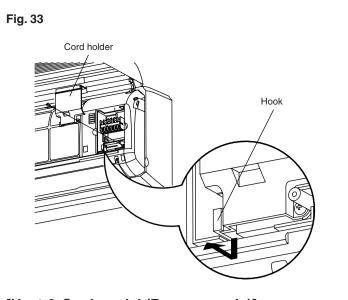


2. INDOOR UNIT SIDE

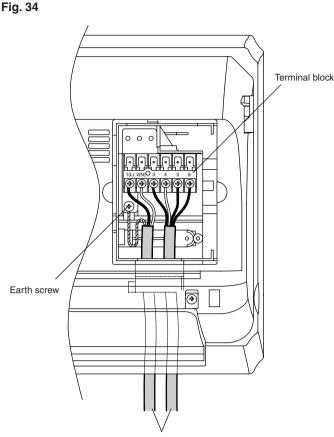
- (1) Open the intake grille. Remove the tapping screw for the control box cover and remove the control box cover. (Fig. 32) (2) Remove the tapping screw and while minding the cord holder hook,
- remove the cord holder. (Fig. 33) (3) Connect the end of the connection cord fully into the terminal block. (Fig. 34 and 35)



1. CONNECTION DIAGRAM



[Heat & Cool model (Reverse cycle)] Fig. 34



Connection cord

3. OUTDOOR UNIT SIDE

[Cooling model]

Fig. 35

Earth screw

Fig. 37

Fig. 38

After passing the connection

cord through the insulation

tube, fasten it with the cord

[Cooling model]

Terminal block

[Heat & Cool model (Reverse cycle)]

Insulation tube

Insulation tube

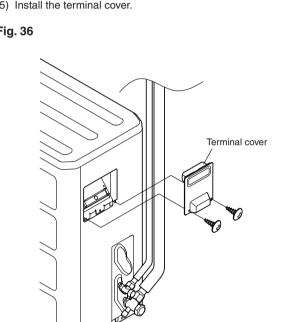
⚠ CAUTION Use VW-1, 12 mm diameter, 0.5 to 1.0 mm thick, connection PVC tube as the insulation tube.

Connection cord

(2) Process the end of the connection cords to the dimensions shown in Fig. 38. (3) Connect the end of the connection cord fully into the terminal block and fasten with the screws. (4) Fasten the sheath with a cord clamp. (Fig. 37)

(1) Remove the outdoor unit terminal cover and cord clamp. (Fig. 36)

(5) Install the terminal cover.



FINISHING

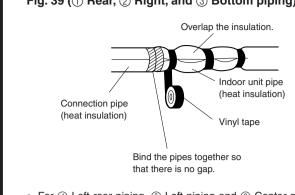
1. CONNECTION PIPE, CORD AND DRAIN HOSE

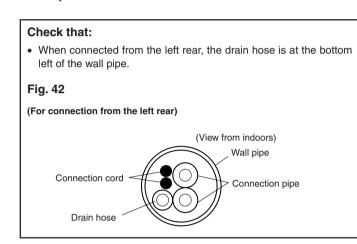
(1) Insulate between pipes

• For ① Rear, ② Right, and ③ Bottom piping, overlap the connection pipe heat insulation and indoor unit pipe heat insulation and bind them with vinyl tape so that there is no gap. (Fig. 39) • For 4 Left rear and 5 Left piping, butt the connection pipe heat insulation and indoor unit pipe heat insulation together and bind

Fig. 39 (① Rear, ② Right, and ③ Bottom piping)

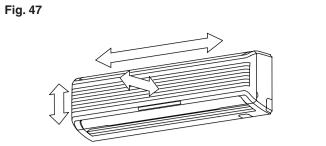
them with vinyl tape so that there is no gap. (Fig. 40)





(2) Temporarily fasten the connection cord along the connection pipe with

- The top and bottom hooks are hooked firmly and the indoor unit does not move to the front and rear or left and right.



(2) Before turning on the verify that the voltage is within

cial breaker to supply power to the room air conditioner. (4) Use a circuit breaker matched to the capacity of the

room air conditioner. (Install in accordance with stand-

(6) Perform wiring work in accordance with standards so that the room air conditioner can be operated safely and positively.

related laws and regulations and electric company standards.

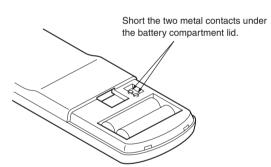
air conditioner current and the current of other electrical appliances. When the current contracted capacity is insufficient, change the contracted capacity.

cult to start, contact the power company the voltage

TEST RUNNING

 Perform test operation and check items 1 and 2 below. • For the operation method, refer to the operating manual. • The outdoor unit may not run, depending on the room temperature. In this case, the 'TEST RUN' signal is received during air conditioner operation (use a metallic object to short the two metal contacts under the battery compartment lid and send the 'TEST RUN' signal from the

remote control unit). Fig. 48



Operation can be checked by lighting and flashing of the display section OPERATION and TIMER lamps. Perform judgement in accordance with the following.

- Test running
- When the air conditioner is run by pressing the remote control unit test run button, the OPERATION and TIMER lamps flash slowly at the same time.
- The OPERATION, TIMER and SWING lamps operate as follows (Table 6) according to the error contents.

Table 6

Error display

	' '		
Error contents	OPERATION (RED)		SWING (ORANGE)
Indoor unit circuit board error	0	0	_
Indoor unit room temperature sensor wire opened	2 times	0	_
Indoor unit room temperature sensor wire short circuited	2 times	0	0
Indoor unit piping sensor wire opened	3 times	0	_
Indoor unit piping sensor short circuited	3 times	0	0
Indoor unit fan error	6 times	0	_

CHECK ITEMS

(1) INDOOR UNIT

(1) Is operation of each button on the remote control unit normal? (2) Does each lamp light normally?

- (3) Do not air flow direction louvers operate normally? (4) Is the drain normal?
- (5) Is there any abnormal noise and vibration during operation? (2) OUTDOOR UNIT

(1) Is there any abnormal noise and vibration during operation? (2) Will noise, wind, or drain water from the unit disturb the neighbors?

- (3) Is there any gas leakage?
- Do not operate the air conditioner in the test running state for a long
- For the operation method, refer to the operating manual and perform operation check.

REMOTE CONTROL UNIT INSTALLATION

⚠ CAUTION

1) Check that the indoor unit correctly receives the signal from the remote control unit, then install the remote control unit holder.

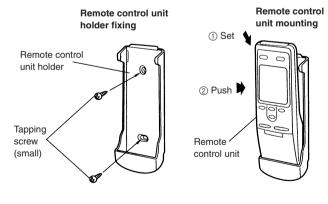
(2) Select the remote control unit holder selection site by paying careful attention to the following: Avoid places in direct sunlight. Select a place that will not be affected by the heat from

1. REMOTE CONTROL UNIT HOLDER INSTALLA-

• Install the remote control unit with a distance of 7 m between the remote control unit and the photocell as the criteria. However, when installing the remote control unit, check that it operates positively. • Install the remote control unit holder to a wall, pillar, etc. with the tapping screw (Fig. 49).

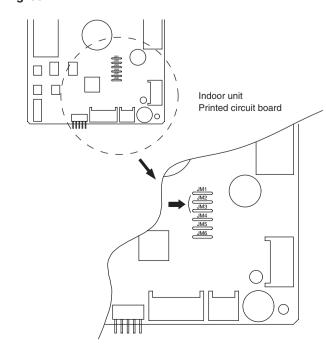
Fig. 49

a stove, etc.



2. SWITCHING REMOTE CONTROL UNIT SIGNAL CODES

• Air conditioner settings



Remote control unit settings



seconds to display the current signal code.



- (4) Press the MASTER CONTROL button again to return to the clock display and change the signal code.
- circuit board setting. operate for the air conditioner.

Table 7

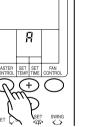
Jumpe	er wire	Remote control unit	
JM2 JM3		signal code	
Connect	Connect	A (Primary setting)	
Connect	Disconnect	В	
Disconnect	Connect	С	
Disconnect	Disconnect	D	
		·	

- (1) Starting and stopping method, operation switching, temperature ad-
- justment, timer, air flow switching, and other remote control unit op-(2) Air filter removal and cleaning, and how to use the air louvers.
- (4) If the signal code is changed, explain to the customer how it changed

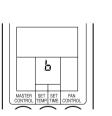
(1) Press the START/STOP button and display only the clock.



(2) Press the MASTER CONTROL button continuously for more than five



(3) Change the signal code with the \bigcirc / \bigcirc button (\square \rightarrow \square \rightarrow \square \rightarrow \square .



 Confirm the setting of the remote control unit signal code and the printed If these are not confirmed, the remote control unit cannot be used to

CUSTOMER GUIDANCE

- Explain the following to the customer in accordance with the operating
- (3) Give the operating manual and installation instruction sheet to the
- (the system returns to signal code A when the batteries in the remote control unit are replaced).

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(5) Fasten the drain hose to the outside wall, etc. Fig. 44 Check the following: • For ④ Left rear piping, ⑤ Left piping and ⑥ Center piping, wrap the area which accommodates the rear piping housing section with cloth Fig. 40 (4) Left rear piping, 5) Left piping and 6) Center piping) 2. INSTALLING FINAL PARTS • For 4 Left rear piping, 5 Left piping and 6 Center piping bind the (1) Secure the cord holder with tapping screw. (Fig. 45) connection cord to the top of the pipe with vinyl tape. (2) Secure the control box cover and tapping screw. (Fig. 45) (3) Close the intake grille. (Fig. 46) Fig. 45 (1) Rear piping)

vinyl tape. (Wrap to about 1/3 the width of the tape from the bottom of the pipe so that water does not enter.) (3) Fasten the connection pipe to the outside wall with a saddle, etc.

Lifted up

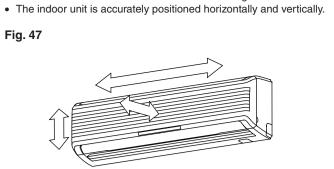
Wave

End in water

(4) Fill the gap between the outside wall pipe hole and the pipe with sealer so that rain water and wind cannot blow in.

Fig. 47

Check that:



POWER

(1) The rated voltage of this product is 220 V A.C.

the 198 V to 242 V range.

(5) The circuit breaker is installed in the permanent wiring. Always use a circuit that can trip all the poles of the wiring and has an isolation distance of at least 3

(7) Install a leakage circuit breaker in accordance with the

↑ CAUTION

↑ WARNING

(3) Always use a special branch circuit and install a spe-

mm between the contacts of each pole.

(1) The power source capacity must be the sum of the room