SPLIT TYPE ROOM AIR CONDITIONER

INSTALLATION INSTRUCTION SHEET

(PART NO. 9369233012)

For authorized service personnel only.			
	This mark indicates procedures which, if improperly performed, might lead to the death or serious injury of the user.	l	

△ CAUTION	the user, or damage to property.
	∆ WARNING
(1) For the room a	ir conditioner to operate satisfactorily, install it as outlined in this installation instruction sheet.
	adoor unit and outdoor unit with the room air conditioner piping and cords available standards parts. This struction sheet describes the correct connections using the installation set available from our standard parts.
(3) Installation wo	rk must be performed in accordance with national wiring standards by authorized personnel only.
(f) If softimered t	and the state of the second of the second second second second second second second second with a flame is

SELECTING THE MOUNTING POSITION

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<u> </u>
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 fail.
CAUTION
(1) Do not install where there is the danger of combustible gas leakage.
(2) Do not install near heat sources.

STANDARD A		ESSORIES
INDOOR UNIT ACCES	SORI	ES
Name and Shape	Qty	Use
	1	For indoor unit installation
Remote control unit	1	Use for air conditioner operation
Battery (persigns)	2	For remote control unit
Remote control unit holder	1	Use as remote control unit holder
Tapping screw (big) (s4 × 20)	12	For wall hook bracket installation
Tapping screw (small) (eG × 12)	2	For remote control unit holder installation
OUTDOOR UNIT ACC	ESSO	RIES
Hexagon wrench	1	For vacuuming and addi- tional charge

INSTALLATION PROCEDURE

































Disr	neter	Maximum	Maximum Heigh
Small	Large	length	(between indoor and outdoor)
9.52 mm (3/0 in.)	15.88 mm (58 in.)	20 m (66 ft)	8 m (26 t)





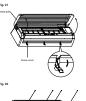
Dismeter		Maximum	Maximum Heigh (between indoo
Small	Large	length	and outdoor)
9.52 mm (3/8 in.)	15.88 mm (58 in.)	20 m (66 t)	8 m (26 t)

ELECTRICAL REQUIREMENT





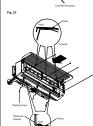




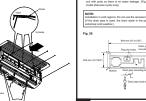
















•	CONNECTING THE PIPING
П	△ CAUTION
П	The maximum lengths of this product are shown in Tab 1. If the units are further apart than this, correct operati- can not be guaranteed.





Flare nut	Tightening torque
9.52 mm (3/8 in.) dia.	30.4 to 34.3 N · m (310 to 350 kgf · o
15.00 mm (5/0 in.) da.	73.6 to 78.5 N · m (750 to 800 kgf · o

VACUUM PROCESS



⚠ WARNING

(1) Before starting work, check that power is not being supplied to indoor unit and the outdoor unit. 2) Match the terminal block numbers and connection cord

colors of the indoor unit and the outdoor unit. Errone-

- ous 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
- (4) 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.
- 4) Position the round terminal wire, and replace and tighten the terminal screw using a screwdriver.



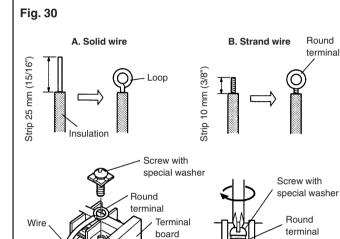
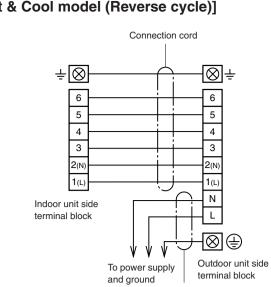
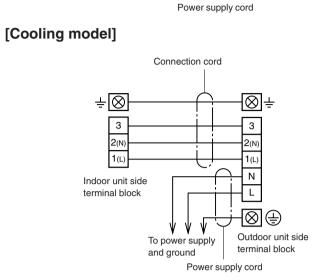


Fig. 31

[Heat & Cool model (Reverse cycle)]

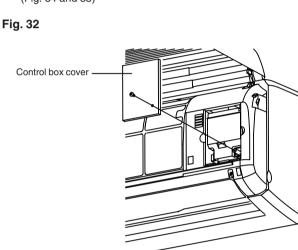
1. CONNECTION DIAGRAM

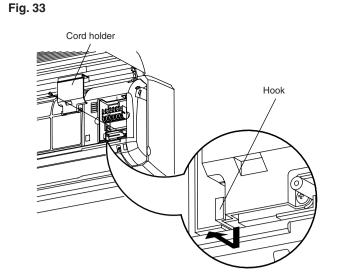




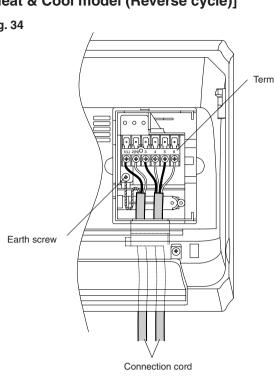
2. INDOOR UNIT SIDE

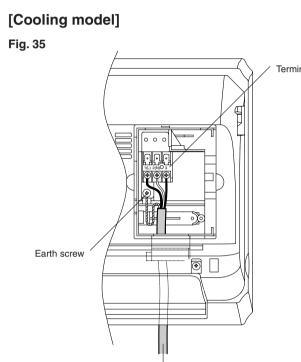
- (1) Open the intake grille. Remove the tapping screw for the control box cover and remove the control box cover. (Fig. 32) (2) Remove the tapping screw and while minding the cord holder hook, remove the cord holder. (Fig. 33)
- (3) Connect the end of the connection cord fully into the terminal block.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





[Heat & Cool model (Reverse cycle)]





Connection cord

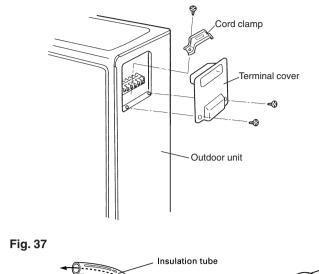
3. OUTDOOR UNIT SIDE

and fasten with the screws.

(5) Install the terminal cover.

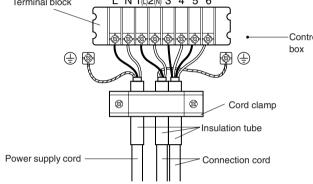
(4) Fasten the sheath with a cord clamp. (Fig. 37)

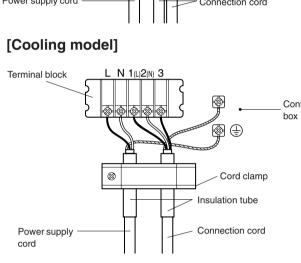
CAUTION Use VW-1, 12 mm diamater, 0.5 to 1.0 mm thick, connection PVC tube as the insulation tube. (1) Remove the outdoor unit terminal cover and cord clamp. (Fig. 36) (2) Process the end of the connection cords to the dimensions shown in Fig. 38. (3) Connect the end of the connection cord fully into the terminal block



cord through the insulation tube, fasten it with the cord

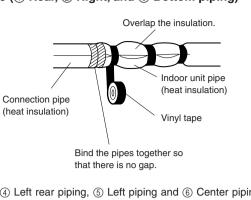
[Heat & Cool model (Reverse cycle)]





(1) Insulate between pipes.

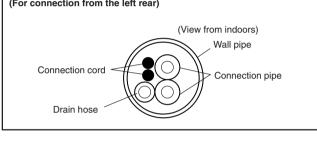
- For ① Rear, ② Right, and ③ Bottom piping, overlap the connection pipe heat insulation and indoor unit pipe heat insulation and bind them with vinyl tape so that there is no gap. (Fig. 39)
- insulation and indoor unit pipe heat insulation together and bind



• For 4 Left rear piping, 5 Left piping and 6 Center piping bind the

Check that:

left of the wall pipe.



FINISHING (2) Temporarily fasten the connection cord along the connection pipe with vinyl tape. (Wrap to about 1/3 the width of the tape from the bottom of

Fig. 44

Check the following:

the pipe so that water does not enter.)

(5) Fasten the drain hose to the outside wall, etc.

Lifted up

(1) Secure the cord holder with tapping screw. (Fig. 45)

(2) Secure the control box cover and tapping screw. (Fig. 45)

2. INSTALLING FINAL PARTS

(3) Close the intake grille. (Fig. 46)

Fig. 45 (1) Rear piping)

Fig. 46

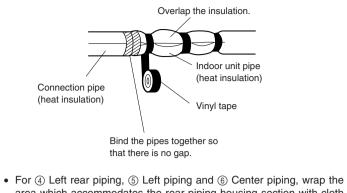
Wave

End in water

(3) Fasten the connection pipe to the outside wall with a saddle, etc. (4) Fill the gap between the outside wall pipe hole and the pipe with sealer 1. CONNECTION PIPE, CORD AND DRAIN HOSE so that rain water and wind cannot blow in.

- For ④ Left rear and ⑤ Left piping, butt the connection pipe heat them with vinyl tape so that there is no gap. (Fig. 40)

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



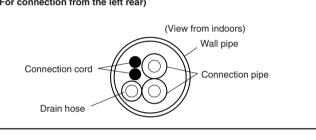
area which accommodates the rear piping housing section with cloth

Fig. 40 (4) Left rear piping, 5) Left piping and 6) Center piping)

connection cord to the top of the pipe with vinyl tape.

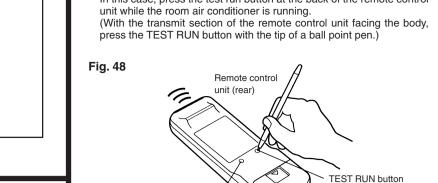
• When connected from the left rear, the drain hose is at the bottom

(For connection from the left rear)



Check that:

- The top and bottom hooks are hooked firmly and the indoor unit does not move to the front and rear or left and right. • The indoor unit is accurately positioned horizontally and vertically.



TIME ADJUST butto

OPERATION and TIMER lamps.

Test running

the same time.

TEST RUNNING

• The outdoor unit may not run, depending on the room temperature.

In this case, press the test run button at the back of the remote control

Operation can be checked by lighting and flashing of the display section

When the air conditioner is run by pressing the remote control unit

test run button, the OPERATION and TIMER lamps flash slowly at

Perform test operation and check items 1 and 2 below.

For the operation method, refer to the operating manual.

POWER

↑ WARNING (1) The rated voltage of this product is 220-240 V A.C.

(2) Before turning on the verify that the voltage is within the 198 V to 264 V range.

(5) The circuit breaker is installed in the permanent wir-

mm between the contacts of each pole.

and positively.

standards.

ing. Always use a circuit that can trip all the poles of

the wiring and has an isolation distance of at least 3

(6) Perform wiring work in accordance with standards so

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

⚠ CAUTION

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

(2) When the voltage is low and the air conditioner is diffi-

cult to start, contact the power company the voltage

is insufficient, change the contracted capacity.

air conditioner current and the current of other electri-

cal appliances. When the current contracted capacity

related laws and regulations and electric company

that the room air conditioner can be operated safely

- (3) Always use a special branch circuit and install a spe-The OPERATION, TIMER and SWING lamps operate as follows (Tacial breaker to supply power to the room air conditioner.
- ble 6) according to the error contents. (4) Use a circuit breaker matched to the capacity of the room air conditioner. (Install in accordance with stand-

Perform judgement in accordance with the following.

Table 6

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

○ : Fast flashing● : Slow flashing— : Off

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?

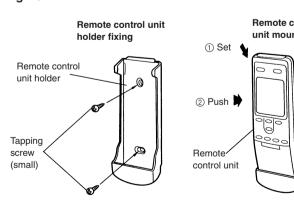
(2) OUTDOOR UNIT

- (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

- (1) Check that the indoor unit correctly receives the sigcontrol unit holder.
- paying careful attention to the following: Avoid places in direct sunlight.
- Install the remote control unit with a distance of 7 m between the remote control unit and the photocell as the criteria. However, when in-

ping screw (Fig. 49).



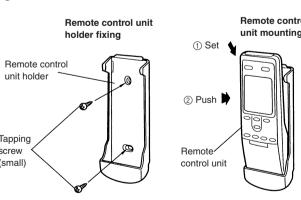
justment, timer, air flow switching, and other remote control unit op-(2) Air filter removal and cleaning, and how to use the air louvers.

(1) Starting and stopping method, operation switching, temperature ad-

INSTALLATION CAUTION

- nal from the remote control unit, then install the remote
- (2) Select the remote control unit holder selection site by Select a place that will not be affected by the heat from a stove, etc.
- 1. REMOTE CONTROL UNIT HOLDER INSTALLA-
- stalling the remote control unit, check that it operates positively. · Install the remote control unit holder to a wall, pillar, etc. with the tap-

Fig. 49



CUSTOMER GUIDANCE

Explain the following to the customer in accordance with the operating manual:

(3) Give the operating manual and installation instruction sheet to the customer.