SPLIT TYPE ROOM AIR CONDITIONER

Cassette Type INSTALLATION INSTRUCTION SHEET

(PART NO. 9359992073)

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.		
A CAUTION	This mark indicates procedures which, if improperly performed, might possibly result in personal harm to		

<u> </u>	
(1) For the air conditioner to operate satisfactorily, install it as outlined in this installation instruction sheet.	
(2) Connect the indoor unit and outdoor unit with the room air conditioner piping and cords available from our standards parts. This installation instruction sheet describes the correct connections using the installation set available from our standard parts.	
(3) Installation work must be performed in accordance with national wiring standards by authorized personnel only.	
(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.	

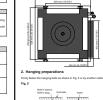
STANDARD PARTS

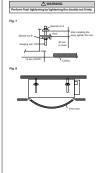
Name and Shape	O'ty	Application
Coupler heat insulation		For indoor side pipe joint
0	2	
Special nut A (large flange)	4	For installing indoor unit
Special nut III (small flange)	4	For installing indoor unit
Template O o	1	For ceiling hole cutting
Remote control unit	,	Use for air conditioner operation
Battery (penight)	2	For remote control unit
Remote control unit holder	1	For mounting the remote control unit
Tapping screw (eQ × 12)	2	For remote control unit holder installation

Hexagon		
wrench 🥪	1	For opening the refrigerant valve on the outdoor unit
Orazin pipes 🛒	(1)	For outdoor unit drain piping work
Orain cap	(2)	(Heat & Cool (Reverse cycle) model only)
8000 BTU/h model]		
Name and Shape	City	Application
omin pipe 🕮	1	For outdoor unit drain piping work theat & Cool (Revense cycle)
Orain cap	1	model only)
RILLE ACCESSORIE		model only)
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RILLE ACCESSORIE		model only)
RILLE ACCESSORIE		model only) Application

1 INDOOR UNIT INSTALLATION

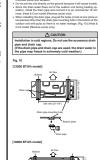
INSTALLATION PROCEDURE



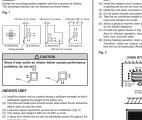


2 INSTALLING DRAIN PIPE OUTDOOR UNIT





SELECTING THE MOUNTING POSITION











CONNECTION PIPE REQUIREMENT

Dismeter		Maximum	Maximum Heigh Debuses Indoo
Small	Large	length	and outdoor)
6.35 mm (1.4 in.)	12.7 mm (1/2 is.)	20 m (66 ft)	8 m (26 ft)
Use pipe with wo	 2 mm thick pipe. ater-resistant heat in withstand a pre- 		
	∆ca	UTION	
of the refrigers heat insulatio pected humid is 15 mm or th 80%, use heat	the humidity lever ant piping is ex- en around the re- ity level is 70-8 sicker and if the insulation that ion is used that	pected to excess refrigerant pipi 0%, use heat in expected hum is 20 mm or the is not as thick	od 70%, installing. If the ex- naulation that idity exceeds loker. as specified

ELECTRICAL REQUIREMENT



























HOW TO CONNECT WIRING TO THE TERMINALS

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

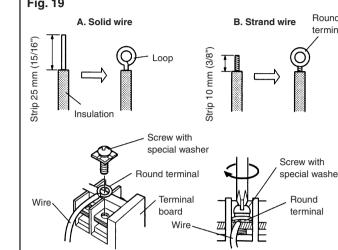
Cut the wire end with a wire cutter or wire-cutting pliers, then strip

the insulation to about 25 mm (15/16") of expose the solid wire.

terminal screw. (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

-) Cut the wire end with a wire cutter or wire-cutting pliers, then strip the insulation to about 10 mm (3/8") of 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 ter-
- minal screw using a screwdriver.



1. Indoor unit side

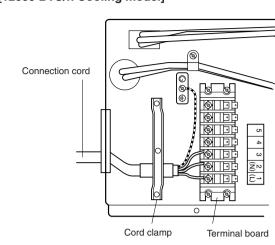
↑ WARNING

- 1) Before starting work, check that power is not being supplied to indoor unit and the outdoor unit.
- 2) Match the terminal board numbers and connection cord colors with those of the outdoor unit side. Erroneous wiring may cause burning of the electric
- (3) Connect the connection cords firmly to the terminal board. 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.

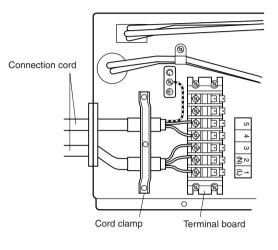
(1) Remove the control box cover and install the connection cord. (Figs. 20 and 21)

Fig. 20 Control box cover

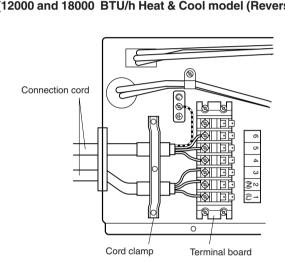
[12000 BTU/h Cooling model]



[18000 BTU/h Cooling model]



[12000 and 18000 BTU/h Heat & Cool model (Reverse cycle)]



2. Outdoor unit side

↑ WARNING (1) Before starting work, check that power is not being supplied to the indoor unit and outdoor unit.

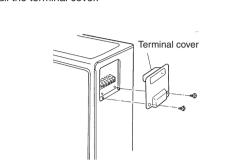
2) Match the terminal board numbers and connection cord colors with those of the indoor unit side. Erroneous wiring may cause burning of the electric

(3) Connect the connection cords and the power supply cord firmly to the terminal board. Imperfect installation may cause a fire.

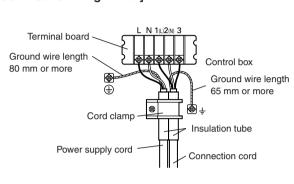
(4) Always fasten the outside covering of the connection cord and the power supply cord with cord clamps. (If the insulator is chafed, electric leakage may occur.)

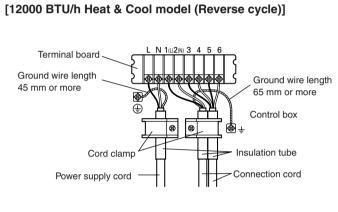
(5) Always connect the ground wire. (1) Remove the terminal cover of the outdoor unit, and insert the end of the connection cord and the power supply cord into the terminal board.

(2) Fasten the connection cord and the power supply cord with the cord (3) Install the terminal cover.



[12000 BTU/h Cooling model]





2. SWITCHING REMOTE CONTROL UNIT SIGNAL

Indoor unit

Printed circuit board

CODES

Air conditioner settings

Remote control unit settings

Fig. 39

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

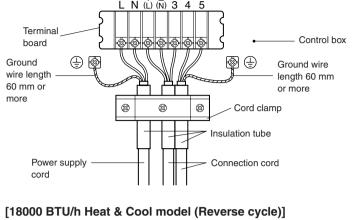
. 18 : Si

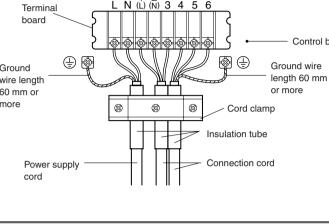
(2) Press the MASTER CONTROL button continuously for more than five

seconds to display the current signal code.

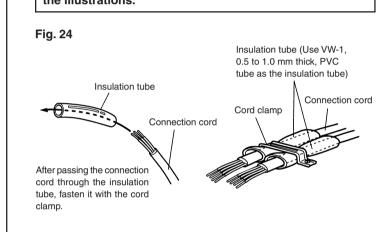
Fig. 23 Terminal cover

[18000 BTU/h Cooling model]





CAUTION When routing the ground wires, leave slack as shown in the illustrations.

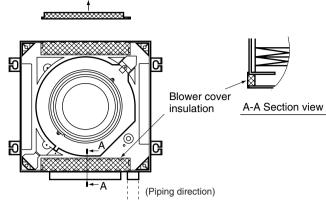


GRILLE INSTALLATION

1. Blower cover insulation

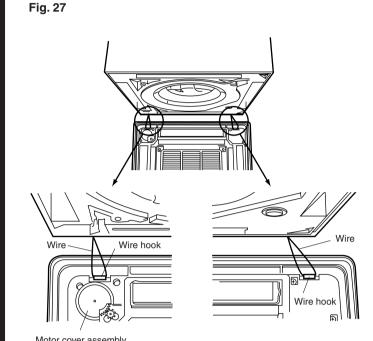
Install the blower cover insulation only when the outlet direction is not Two blower cover insulations are packed with the grille assembly. Install the blower cover insulation at the diffuser position shown in Fig. 26. At the time, use the piping position as the criteria.

2 direction example Fit the blower cover insulation.



2. Installing grille assembly to body

Hang the grille assembly on the wires attached to the indoor unit as shown



Install the grille assembly to the body with the four bolts, spring washers, and washers. Fig. 28 No gap between ceiling and grille around entire periphery. Wireless unit connection wire wiring

Bolting the grille assembly to the body

Connect the connector in accordance part A detail view. Then clamp the lead wire with clamp so that it does not touch the rotating

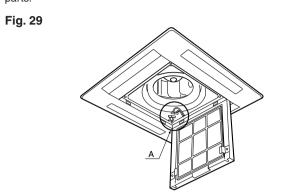
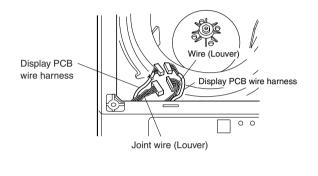
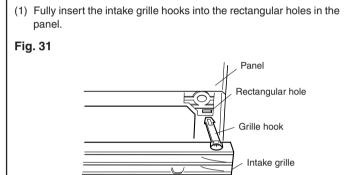
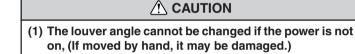


Fig. 30 Part A detail view



INSTALLING/REMOVING THE INTAKE GRILLE . Installing the intake grille





(2) The grille assembly is directional relative to the air conditioner body.

(2) Close the intake grille, then slide the two grille stoppers outward.

(1) Slide the two grille stoppers inward, then open the intake grille.

(2) Remove the grille hook screws, then open the intake grille.

(3) Open the intake grille so that it is at an angle of 20° to 40°, then

remove the grille.

2. Removing the intake grille

(3) Install so that there is no gap between the grille assembly and the air conditioner body.

⚠ WARNING

capacity of the room air conditioner.

the 198 V to 264 V range.

(1) The rated voltage of this product is 220-240 V A.C. 50 Hz. (2) Before turning on the verify that the voltage is within

POWER

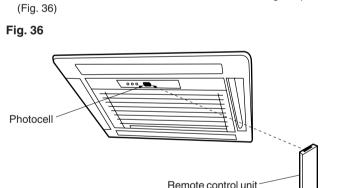
- (3) Always use a special branch circuit and install a special breaker to supply power to the room air conditioner. 4) Use a circuit breaker and receptacle matched to the
- (5) The circuit breaker is installed in the permanent wiring. Always use a circuit that can trip all the poles of the wiring and has an isolation distance of at least 3 mm between the contacts of each pole.
- 6) Perform wiring work in accordance with standards so that the room air conditioner can be operated safely and positively.
- 7) Install a leakage circuit breaker in accordance with the related laws and regulations and electric company standards.

CAUTION

- 1) The power source capacity must be the sum of the room air conditioner current and the current of other electrical appliances. When the current contracted capacity is insufficient, change the contracted capacity.
- 2) When the voltage is low and the air conditioner is difficult to start, contact the power company the voltage

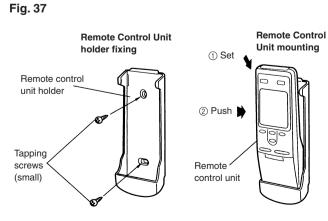
INSTALLATION

• Install the remote control unit so that the front is facing the photocell. (Fig. 36)

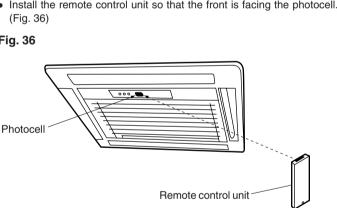


↑ CAUTION

- 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
- INSTALLATION
- ping screws.

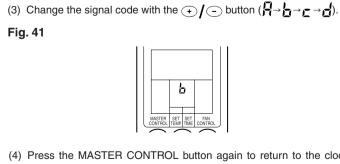


REMOTE CONTROL UNIT



 Install the remote control unit with a distance of 5 m between the remote control unit and the grille photocell as the criteria. However, when installing the remote control unit, check that it operates

- (1) Check that the indoor unit correctly receives the signal from the remote control unit, then install the remote
- a stove, etc.
- . REMOTE CONTROL UNIT HOLDER
- Install the remote control unit holder to a wall, pillar, etc. with the tap-



(4) Press the MASTER CONTROL button again to return to the clock display and change the signal code.

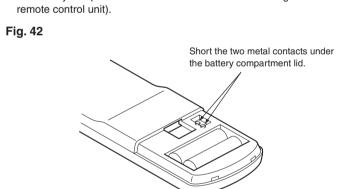
Confirm the setting of the remote control unit signal code and the printed circuit board setting. If these are not confirmed, the remote control unit cannot be used to operate for the air conditioner.

ıab	ıe	b

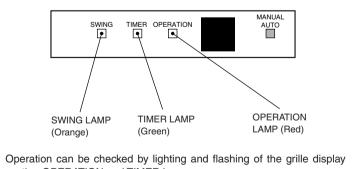
Jumpe	er wire	Remote control unit signal code		
JM2	JM3			
Connect	Connect	A (Primary setting)		
Connect	Disconnect	В		
isconnect	Connect	С		
isconnect	Disconnect	D		

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



• To end test operation, press the remote control unit START/STOP but-(When the air conditioner is run by pressing the remote control unit TEST RUN button, the OPERATION and TIMER lamps will simultaneously flash slowly.)



section OPERATION and TIMER lamps. Perform judgment in accordance with the following.

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

Error display

The OPERATION, TIMER and SWING lamps operate as follows (Table 7) according to the error contents.

Table 7

lamp	TIMER lamp	SWING lamp	
Blinks	Blinks	Goes off	Model information abnorma (permanent type)
Pulses 4 times	Blinks	Goes off	Drain abnormal (permanent type)
Pulses 5 times	Blinks	Goes off	Indoor fan abnormal
Pulses 2 times B	Blinks	Goes off	Room air temperature thermistor open circuit
		Blinks	Room air temperature thermistor short circuit
Pulses 3 times	Blinks	Goes off	Piping thermistor open circuit
		Blinks	Piping thermistor short circuit

CHECK ITEMS

[12000 BTU/h Cooling model]

Indoor unit

side terminal

[18000 BTU/h Cooling model]

side terminal

÷⊗

Indoor unit

side terminal

Green/Yellow

[12000 and 18000 BTU/h Heat & Cool model (Reverse cycle)]

Green/Yellow

⊗ EARTH⊕

- EARTH ≟

- EARTH⊕

-⊗ EARTH <u>+</u>

–⊗ EARTH 🖶

-⊗ EARTH<u>+</u>

Outdoor unit

Outdoor unit

side terminal

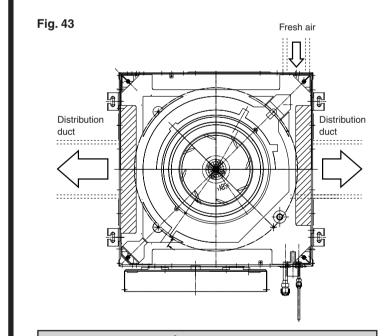
- (1) INDOOR UNIT (1) Is operation of each button on the remote control unit normal?
- (2) Does each lamp light normally? (3) Do not air flow direction louvers operate normally?
- (5) Is there any abnormal noise and vibration during operation? (2) OUTDOOR UNIT

(3) Is there any gas leakage?

(4) Is the drain normal?

- (1) Is there any abnormal noise and vibration during operation? (2) Will noise, wind or drain water from the unit disturb the neighbors?
- Do not operate the air conditioner in the test running state for a long

OPENING THE DUCT CONNECTION HOLE

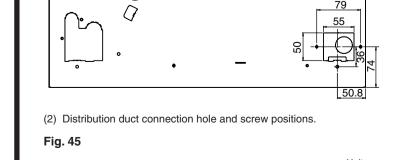


CAUTION (1) When performing hole opening work, be careful not to damage the drain pan.

(2) When connecting the distribution duct, to make the air

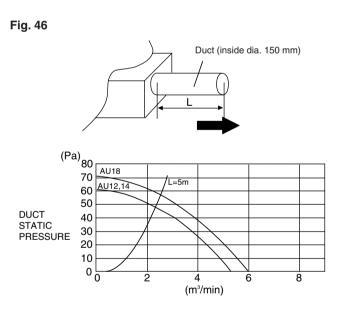
flow easily, block the outlet port with the blower cover insulation as shown by the hatched lines in fig. 43. For the blocking direction, refer to Fig. 26. 1. DIMENSION

(1) Fresh air duct connection hole and screw positions.



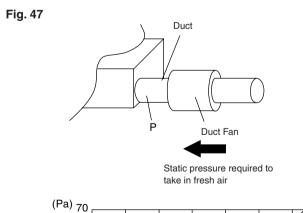
6-ø3.3 Self tapping

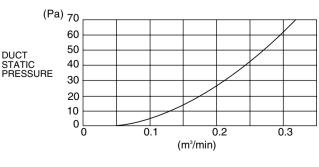
CAUTION The air conditioner cannot take in fresh air by itself. When connecting a fresh air duct, always use a duct fan. **OUTLET AIR**



FRESH AIR

Unit: mm

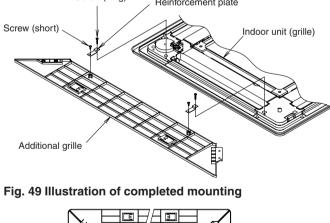


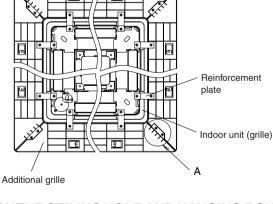


INSTALLING THE OPTION PARTS (ADDITIONAL GRILLE)

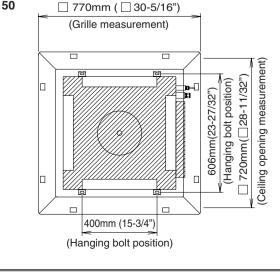
THE ADDITIONAL GRILLE

- Mount the assembled additional grille to the indoor unit (grille) that has been removed from the main unit.
- Make sure all areas are properly installed the reinforcement plate. Mount 4 additional grilles. (Fig. 49) After confirming proper meshing of the additional grilles, secure them
- in place using the 8 screws provided.





POSITION THE CEILING HOLE AND HANGING BOLTS



⚠ CAUTION When installing the additional grille, please refer to the installation instruction sheet supplied with the additional

PART NO. 9359992073