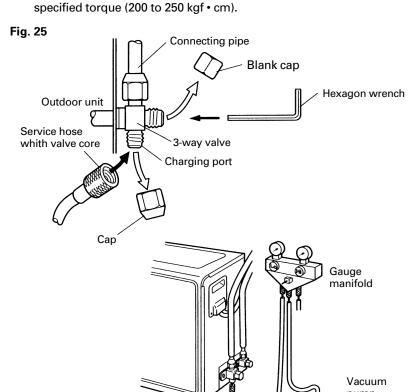


1. VACUUM

- (1) Remove the cap, and connect the gauge manifold and the vacuum pump to the charging valve by the service hoses.
- (2) Vacuum the indoor unit and the connecting pipes until the pressure in them lowers to below 1.5 mmHg.
- (3) Disconnect the service hoses and fit the cap to the charging valve (Tightening torque: 70 to 90 kgf • cm).
- (4) Remove the blank caps, and fully open the spindles of the 2-way and 3-way valves with a hexagon wrench (Torque: 2-way valve:
- 70 to 90 kgf cm, 3-way valve: 100 to 120 kgf cm). (5) Tighten the blank caps of the 2-way valve and 3-way valve to the



2. ADDITIONAL CHARGE

Refrigerant suitable for a piping length of 5 m is charged in the outdoor unit at the factory.

When the piping is longer than 5 m, additional charging is necessary. For the additional amount, see the table below.

Pipe length		16 ft	33 ft	49 ft	66 ft
		(5 m)	(10 m)	(15 m)	(20 m)
Additional refrigerant	Cooling model	None	2.8 oz (80 g)	5.6 oz (160 g)	8.5 oz (240 g)

Table 4

Between 5 m and 20 m, when using a connection pipe other than that in the table, charge additional refrigerant with 0.56 oz (16 g) / 3.3 ft (1 m) (Cooling model) as the criteria.

GAS LEAKAGE INSPECTION

!\ CAUTION

After connecting the piping, check the joints for gas leakage with gas leak detector.

OUTDOOR UNIT WIRING

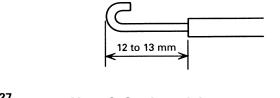
∕!\ WARNING

- (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 with those of the indoor unit side. Erroneous wiring may cause burning of the electric
- (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 cord clamps. (If the insulator is clamped, electric leakage may occur.)
- (5) Always connect the ground wire.

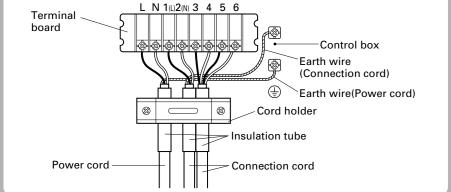
CAUTION

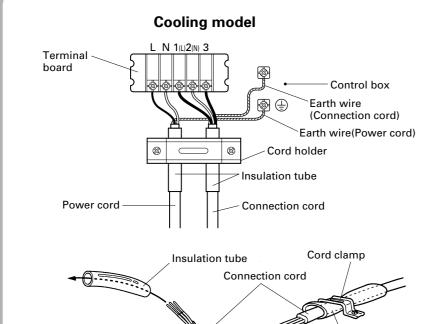
- (1) The power cord is not supplied with the outdoor unit. Use 2.5 mm² to 3.5 mm² H07RN-F or equivalent as the connection cord.
- (2) Use VW-1, 12 mm diameter, 0.5 to 1.0 mm thick, PVC tube as the insulation tube.
- (1) Remove the outdoor unit terminal cover.
- (2) Process the end of the connection cords to the dimensions shown in Fig. 27 and bend the end of each cord as shown in Fig. 26.
- (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.
- (5) Install the terminal cover.

Fig. 26 Stripped length



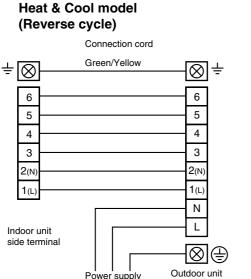
Heat & Cool model (Reverse cycle)

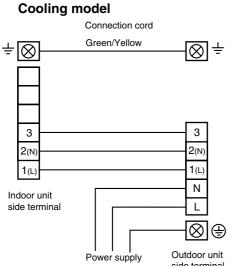




After passing the connection cord through the insulation tube, fasten it with the cord

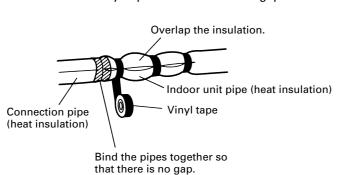
1. CONNECTION DIAGRAM



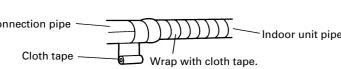


FINISHING

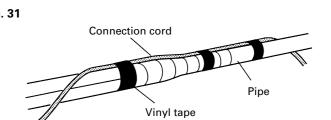
- (1) Insulate between pipes.
- For rear, right, and bottom piping, overlap the connection pipe heat insulation and indoor unit pipe heat insulation and
- bind them with vinyl tape so that there is no gap. • For left and left rear piping, butt the connection pipe heat insulation and indoor unit pipe heat insulation together and bind them with and vinyl tape so that there is no gap.



• For left and left rear piping, wrap the area which accommodates the rear piping housing section with cloth tape.

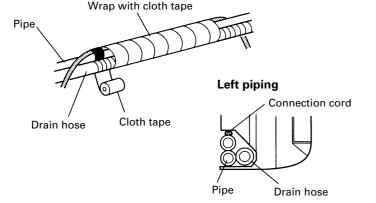


 For left and left rear piping, bind the connection cord to the top of the pipe with vinyl tape.



 For left and left rear piping, bundle the piping and drain hose together by wrapping them with cloth tape over the range within which they fit into the rear piping housing section.

Fig. 32

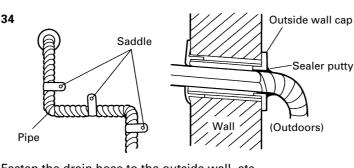


Check that:

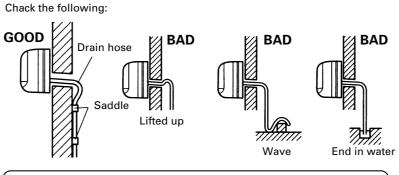
- The top and bottom hooks are hooked firmly and the indoor
- unit does not move to the front and rear or left and right. • The indoor unit is accurately positioned horizontally and
- When connected from the left rear, the drain hose is at

the bottom left of the wall pipe. (For connection from the (View from indoors)

- (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 the pipe so that water does not enter.)
- (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 so that rain water and wind cannot blow in.

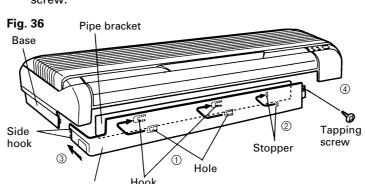


(5) Fasten the drain hose to the outside wall, etc.

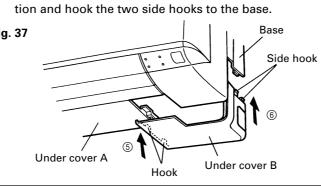


Installing the under covers

- (1) Installing under cover A (Fig. 36)
- ① Hook the two pipe bracket hooks to the two holes in the back of under cover A. While pulling the left side of under cover A forward about 1 cm (at this time, hole hook 1) so that it does not
- come unhooked), slide under cover A to the right and hook the hook. 3 Push the left side of under cover A in the arrow direction
- and hook the two side hooks to the base. (4) Install under cover A to the pipe bracket with the tapping



- Under cover A (2) Installing under cover B (Fig. 37)
- (5) Push the left side of under cover B in the arrow direction and hook the two hooks to under cover A.
- (6) Push the right side of under cover B in the arrow direc-



POWER

! WARNING

- (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 the 198 V to 264 V range.
- (3) Always use a special branch circuit and install a special receptacle to supply power to the room air conditioner. (4) Use a circuit breaker and receptacle matched to the
- capacity of the room air conditioner. (Install in accordance with standard) (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.

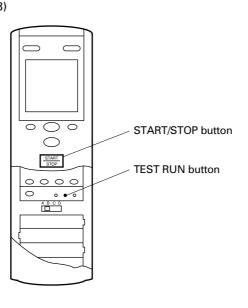
(CAUTION

- (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

TEST RUNNING

- Press the remote control unit test run button while the air
- conditioner is running. At the end of test running, press the remote control unit startstop button. (Fig. 38)

10



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

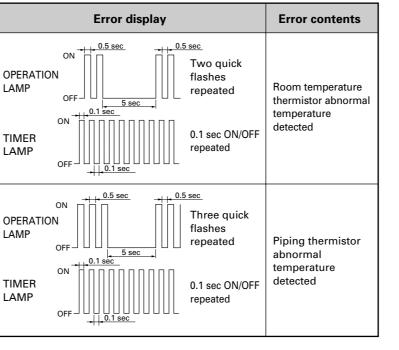
Test running

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.

Error The OPERATION and TIMER lamps operate as follows (Table 5)

according to the error contents.

Table 5



CHECK ITEMS

(1) INDOOR UNIT

- (1) Is operation of each button on the remote control unit nor-
- (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
- For the operation method, refer to the operating manual and perform operation check.

CUSTOMER GUIDANCE

Explain the following to the customer in accordance with the operating

- (1) Starting and stopping method, operation switching, temperature adjustment, timer, air flow switching, and other remote control
- unit operations. (2) Air filter removal and cleaning, and how to use the air louvers. (3) Give the operating and installation manuals to the customer.

FRONT PANEL REMOVAL

!\ CAUTION

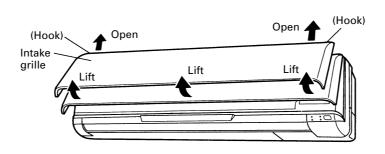
Install the front panel and intake grille securely. If installation is imperfect, the front panel or intake grille may fall

1. INTAKE GRILLE REMOVAL

off and cause injury.

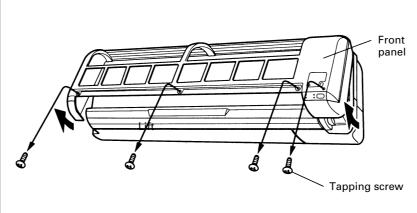
(1) Open the intake grille. (2) Open the intake grille and lift the intake grille upward until the hook at the top of the intake grille is unhooked.

Fig. 39



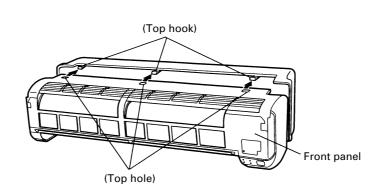
2. FRONT PANEL REMOVAL

- (1) Remove the four tapping screws.
- (2) Remove the front panel by lifting the bottom of the front panel upward.



3. FRONT PANEL INSTALLATION

(1) Hook the top hole of the front panel to the hook of the base. (2) Fasten the front panel with the screw.



Be sure that the top hole of the front panel is hooked securely to the hook of the base.

13

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.

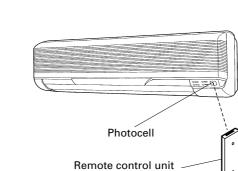
Select a place that will not be affected by the heat

1. REMOTE CONTROL UNIT HOLDER INSTALLATION

• Install the remote control unit so that the front is facing the pho-

tocell.(Fig. 42) Fig. 42

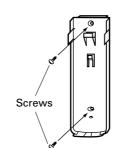
from a stove, etc.

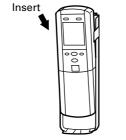


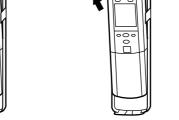
- Install the remote control unit with a distance of 7 m between the remote control unit and the photocell as the criteria. However, when installing the remote control unit, check that it oper-
- Install the remote control unit holder to a wall, pillar, etc. with the tapping screw (Fig. 43).

Fig. 43 For use as Handy Type

ates positively.



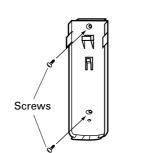


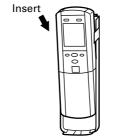


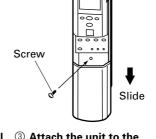
3 To remove the Remote

Control Unit (when use

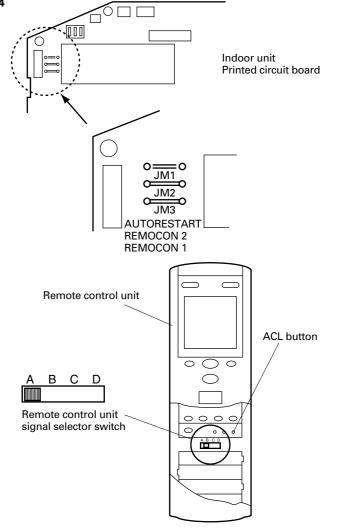
For use as Wall Fixing Type







2. REMOTE CONTROL UNIT CODE SWITCHING



Confirm the remote control unit signal selector switch selection and the printed circuit board setting. If these are not set to the same setting, the remote control unit cannot be used to operate for the air conditioner.

Table 6

Jumpe	er wire	Remote control unit signal selector switch	
JM 2	JM 3		
Connect	Connect	A (Primary setting)	
Connect	Disconnect	В	
Disconnect	Connect	С	
Disconnect	Disconnect	D	

After setting the remote control unit signal selector switch, press the ACL button.