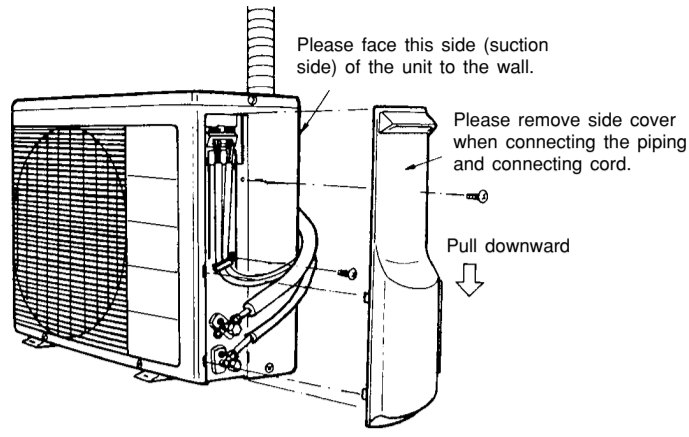
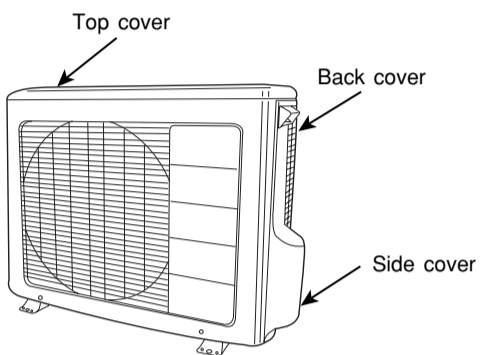


- Please mount the outdoor unit on stable ground to prevent vibration and increase of noise level.
- Decide the location for piping after sorting out the different types of pipe available.
- Open the side plate by unscrewing the screws as shown below.



CAUTION

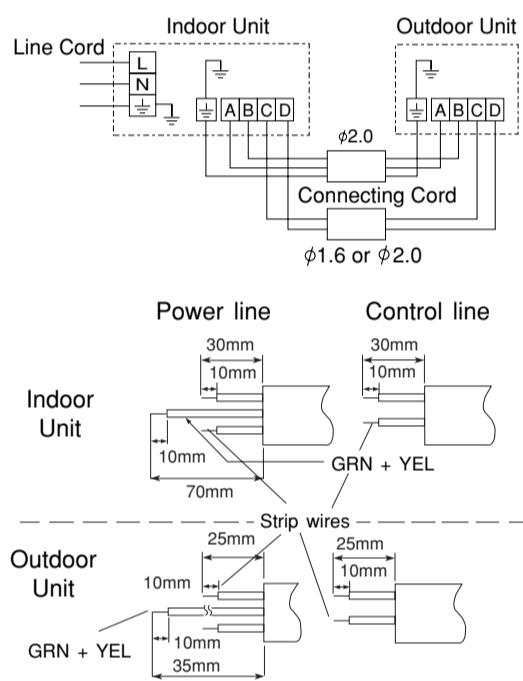
- Please make sure to remove all spacers inside the unit.
- Open the Top, Back and Side cover of the unit.
 - Pull out the spacers inside. (Spacers are only for transportation purpose). If not remove, vibration and noise will occur.



WARNING • THIS APPLIANCE MUST BE EARTHED.

Procedures of Wiring

Power is supplied from Indoor Unit



WARNING

- The naked part of the wire core should be 10 mm and fix it to the terminal tightly. Then try to pull the individual wire to check if the contact is tight. Improper insertion may burn the terminal.
- Be sure to use only power cables approved from the authorities in your country. For example in Germany: Cable type: NYM 3x1.5mm², (fuse = 20A time delay)
- Please refer to the installation manual for wire connection to the terminals of the units. The cabling must meet the standards of electrical installation.
- There is a AC voltage of 220V between the L and N terminals. Therefore, before servicing, be sure to remove the plug from the AC outlet or switch off the main switch.
- Do not make any connection in the middle of the connecting cable. It may cause the wire overheating, emit smoke and fire.

Wiring Of The Indoor Unit

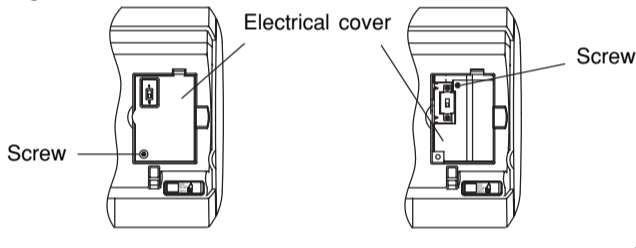
- For wire connection of the Indoor unit, you need to remove front panel and electrical cover.

Method to remove front panel

- Refer to "FINAL STAGE OF INSTALLATION – How to Remove The Front Cover".

Method to remove electrical cover

- Remove the screw and electrical cover.
- Insert the connecting cord (A, B, C, D) from the bottom of unit.
- Fixed the wire to terminal wires firmly as shown in figure at right side.



Wiring of The Outdoor Unit

- Please remove the side cover for wire connection.

WARNING

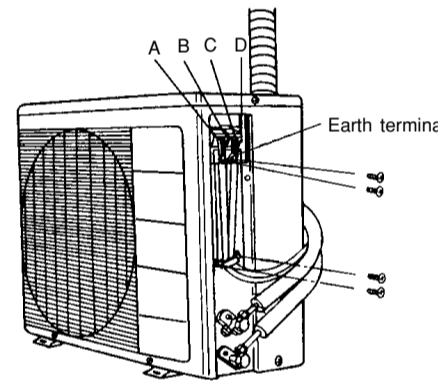
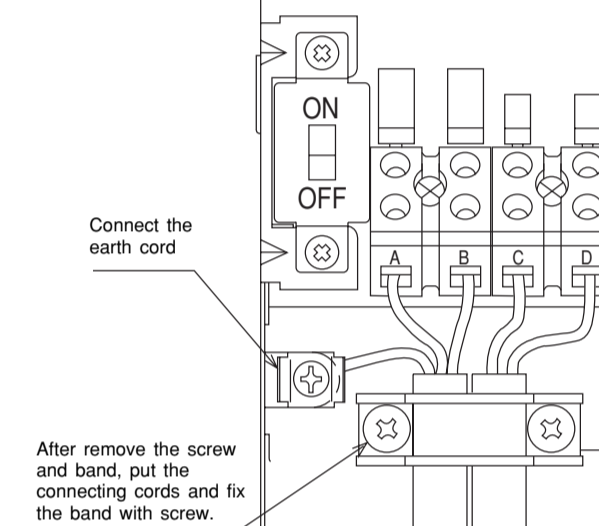
- If you cannot attach the side cover due to the connecting cord, press the connecting cord in direction to the front panel to fix it.
- Be sure that the hooks of the side cover is fixed in certainly. Otherwise water leakage may occur and this causes short circuit or faults.

Checking for the electric source and the voltage range

- Before installation, the power source must be checked and necessary wiring work must be completed. To make the wiring capacity proper, use the wire gauges list below for the lead-in from a pole transformer and for the wiring from a switch board of fuse box to the main switch and outdoor unit in consideration of the locked rotor current.

IMPORTANT

Cable length	Wire cross-section
up to 6m	1.5mm ²
up to 15m	2.5mm ²
up to 25m	4.0mm ²



- Investigate the power supply capacity and other electrical conditions at the installation location. Depending on the model of room air conditioner to be installed, request the customer to make arrangements for the necessary electrical work etc. The electrical work includes the wiring work up the outdoor. In localities where electrical conditions are poor, use of a voltage regulation is recommended.

IMPORTANT

Fuse Capacity
20A time delay fuse

Pump Down Method When Reuse Existing Piping (R22 Model) for R410A Model

- Compressor oil of R22 model is insoluble in compressor oil of R410A model. The mixing of compressor oil may cause damage of compressor.

Possibility of Mixing

- Reuse of piping of R22 model is dangerous because of its compressor oil.
- When reuse piping of R22 model, pump down must be carried out properly to ensure compressor oil which is remained inside piping is collected away.

CAUTION

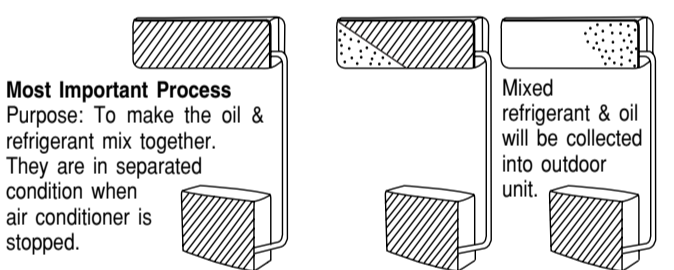
Reuse of piping R-22 model only apply if previous model is Hitachi and proper pump down method is used.

To Reuse Old Piping

- Piping of R22 model can be reused only when air-conditioner is properly pumped down.
- The purpose of pump down is to collect back the compressor oil (which is mixed with refrigerant and circulating inside refrigeration cycle) properly into the outdoor unit of air conditioner.

Proper Pump Down Method

- Operate air conditioner at cooling mode for 10-15 minutes.
- After 10-15 minutes of pre operation, close 2s valve. After 3 minutes, close 4s valve.

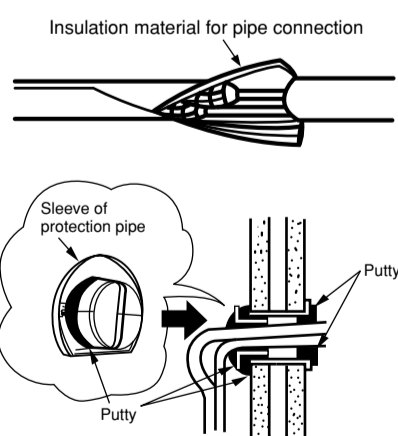


- Take out air conditioner unit.
- Install New Refrigerant air conditioner

It is advisable to flush the piping with R410A to avoid any contamination remain before new installation.

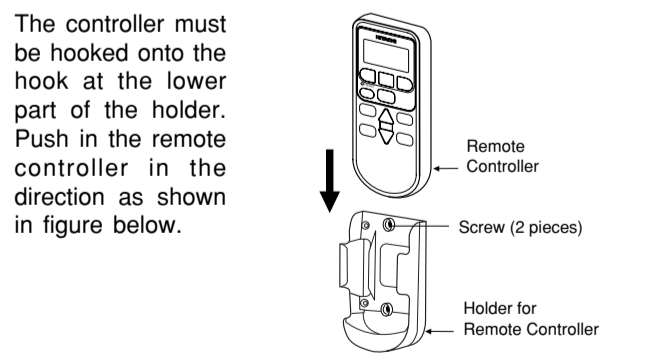
1 Insulation And Maintenance Of Pipe Connection

- The connected terminals should be completely sealed with heat insulator and then tied up with rubber strap.
- Please tie the pipe and power line together with vinyl tape as shown in the figure showing the installation of Indoor and Outdoor units. Then fix their position with holders.
- To enhance the heat insulation and to prevent water condensation, please cover the outdoor part of the drain hose and pipe with insulation pipe.
- Completely seal any gap with putty.



2 Installation Of Remote Controller

- The remote controller can be placed in its holder which is fixed on wall or beam.
- To operate the remote controller at its holder, please ensure that the unit can receive signal transmitted from the controller at the place where the holder is to be fixed. The unit will beep when signal is received from the remote controller. The signal transmission is weakened by the fluorescent light. Therefore, during the installation of the remote control holder, please switch on the light, even during day time, to determine the mounting location of the holder.



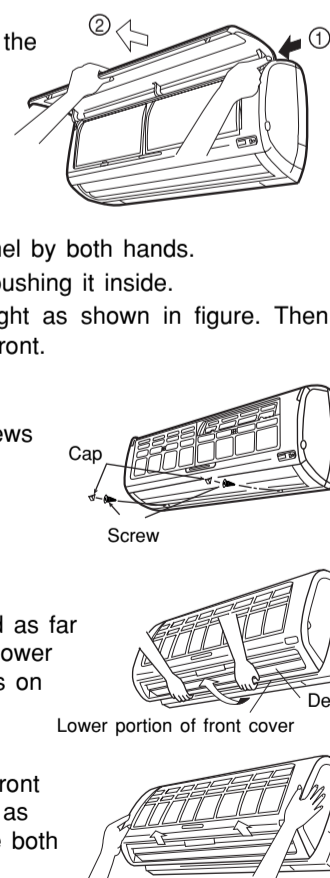
Operation Test

- Please ensure that the air conditioner is in normal operating condition during the operation test.
- Explain to your customer the proper operation procedures as described in the user's manual.

- How to check pipe bending.
 - Compare bended pipe with the picture below.
 - If bended pipe is not good enough, cut bended area and bend it again.
- (a) all areas are smooth, no notching area
 (b) no scratch or mark inside
 (c) all have the same length
 (d) phase of bending is too long

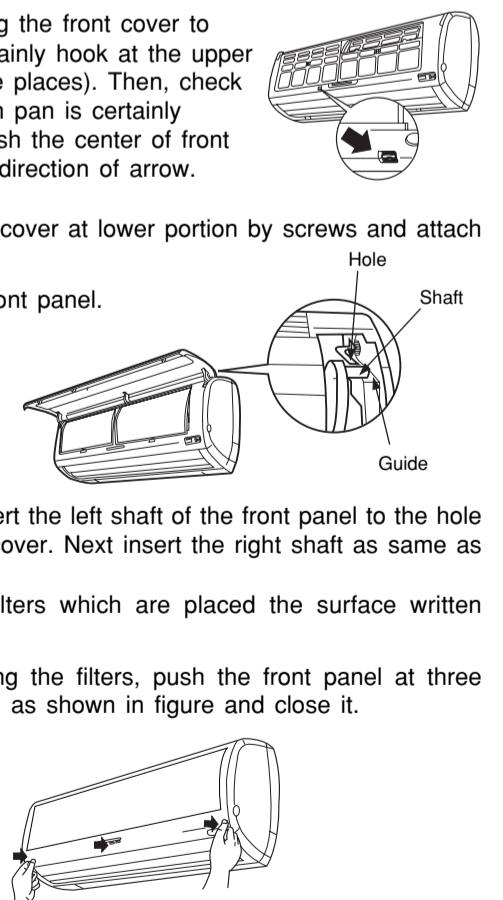
How to Remove The Front Cover

- Remove the front panel.
 - Please remove and attach the front panel by both hands.
- After opening the front panel by both hands.
 - Undo the right arm while pushing it inside.
 - Slide the front panel to right as shown in figure. Then remove while pulling it to front.
- Remove the filters.
 - Remove the caps and screws at the lower portion of the front cover.
- Pull the front cover upward as far as the location where the lower portion of the front cover is on the deflector.
- Remove while pulling the front cover in direction to arrow as shown in figure to hold the both sides of front cover.



How to Attach the Front Cover

- After covering the front cover to the unit, certainly hook at the upper portion (three places). Then, check that the drain pan is certainly attached. Push the center of front cover in the direction of arrow.
- Fix the front cover at lower portion by screws and attach the caps.
- Attach the front panel.
 - Certainly insert the left shaft of the front panel to the hole of the front cover. Next insert the right shaft as same as the left.
- Attach the filters which are placed the surface written "FRONT" up.
- After attaching the filters, push the front panel at three arrow portion as shown in figure and close it.



3 Power Source And Operation Test

Power Source

CAUTION

- Please use a new socket. Accident may occur due to the use of old socket because of poor contact.
- Please plug in and then remove the plug for 2-3 times. This is to ensure that the plug is completely plugged into the socket.
- Keep additional length for the power cord and do not render the plug under external force as this may cause poor contact.
- Do not fix the power cord with U-shape nail.

- ⓐ slanting
- ⓑ there are scratches around bending area
- ⓒ crack
- ⓓ different length
- ⓔ sample of bending pipe cannot be used

