

SPLIT TYPE ROOM AIR CONDITIONER INSTALLATION INSTRUCTION SHEET

(PART NO. 9374110319)

CAUTION
R410A REFRIGERANT
R410A refrigerant is a new type of refrigerant. It is not compatible with the oil used in conventional refrigerant models. If the oil is mixed with R410A refrigerant, the compressor will be damaged. Therefore, do not mix R410A refrigerant with the oil of a conventional refrigerant model.

CAUTION
This air conditioner uses new refrigerant HFC (R410A). The basic installation work procedures are the same for conventional refrigerant models. However, pay careful attention to the following points:

- Since the working pressure is 1.4 times higher than that of conventional refrigerant models, some of the piping and installation and service tools are special. (See Table below.) Especially, when replacing a conventional refrigerant model with a new refrigerant R410A model, always replace the conventional piping and flare nuts with the R410A piping and flare nuts.
- Models that use refrigerant R410A have a different charging port thread diameter to prevent erroneous charging with conventional refrigerant and for safety. Therefore, check beforehand. (The charging port thread diameter for R410A is 1/2 UNF 28 threads per inch.)
- Be more careful that foreign matter (oil, water, etc.) does not enter the piping than with refrigerant models. Also, when storing the piping, secure it and the expansion by pinching, taping, etc.
- When charging the refrigerant, take into account the slight change in composition of the gas and liquid phases, and always charge from the liquid-phase side whose composition is stable.

Special tools for R410A

Tool name	Contents of operation
Gasps manifold	Because a high test pressure of 15 MPa is required to prevent erroneous entry of other refrigerant, the diameter of each part has been changed. It is recommended to use gasps with 15 to 20 MPa, 1/2 inch to 3/8 inch for high pressure, and 1/2 inch to 3/8 inch for low pressure.
Charge hose	It is recommended to use hoses with 15 to 20 MPa for high pressure, and 1/2 inch to 3/8 inch for low pressure.
Pressure gauge	A conventional pressure gauge can be used by installing a pressure gauge adapter.
Charge cylinder	A conventional charge cylinder can be used by installing a pressure gauge adapter.

Copper pipes

It is necessary to use seamless copper pipes and it is desirable that the amount of residual oil is less than 40 g/300 mm. Do not use copper pipes having copper scales. Otherwise, abnormal condensation will occur on the indoor and outdoor coils, and the expansion valve or capillary tube may become blocked with copper scales.

As an air conditioner using R410A, the working pressure is higher than when using R22. It is necessary to choose adequate materials.

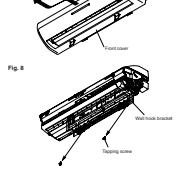
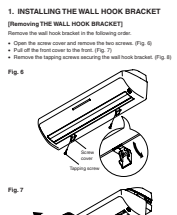
The thickness of copper pipes used for R410A are as follows in Table 1. Please use copper pipe 60mm that is 0.8 mm in wall thickness, 0.8 mm, 1.2 mm (Nominal diameter is 0.8 inch) when used in insulation on the wall.

Nominal diameter (mm)	Thickness (mm)	
	Standard	Minimum
12.7	0.8	0.6
15.88	0.8	0.6
19.05	0.8	0.6

INSTALLATION PROCEDURE

1 INDOOR UNIT INSTALLATION

This piping can be connected in the five directions indicated by (1), (2), (3), (4), and (5) in Fig. 5.

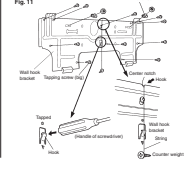
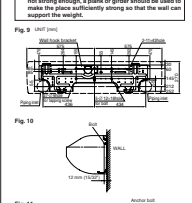


(Installation directly to a wall)
After following the wall hook bracket to the wall with the screws, level it by tapping the back of the center of bracket to the wall with the handle of a hammer.

Fix the wall hook bracket to the wall with 6 or more screws and anchor bolts through the holes near the rear edge of the bracket. Do not insert the wall hook bracket at any place or at any angle. For a concrete wall, anchor bolts (20 mm dia.) are used. The wall of the wall hook bracket (18 x 42 mm dia.) must be attached to the wall with at least 12 mm from the wall. (Fig. 10) Install the unit to the anchor bolts with the wall hook bracket. Use 2 cables for concrete wall and 4 bolts for brick concrete wall. Finally tighten the bolts and tapping screws after confirming, using the level indicator, that the charge is horizontal.

(1) Install the wall hook bracket so that it is correctly positioned horizontally and vertically. If the wall hook bracket is tilted, water will drip to the floor.

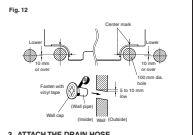
(2) As the weight of the indoor unit is 15 to 18 kg (33 to 40 lbs), it should be installed after properly examining the place where it is intended to be installed. If the place is not strong enough, a plate or girder should be used to make the place sufficiently strong so that the wall can support the weight.



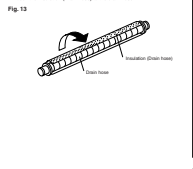
2. CUTTING THE HOLE IN THE WALL FOR THE CONNECTING PIPING

WARNING
If the wall pipe is not fixed, the coil interconnecting the indoor and outdoor units may touch metal and cause electric leakage.

- Cut a 100 mm diameter hole in the wall at the position shown in Fig. 14.
- When cutting the wall hole at the outside of the installation frame, cut the hole to a point of completion of outer metal.
- When cutting the wall hole at the inside of the installation frame, cut the hole to a point of completion of inner metal.
- Use a 100 mm diameter hole in the wall at the position shown in Fig. 14.
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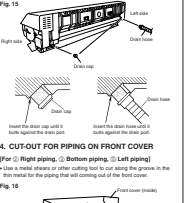
ATTACH THE DRAIN HOSE
Insert the drain hose and drain tap into the drain pipe, making sure that it comes in contact with the back of the drain pipe, and then secure it. If the drain hose is not connected properly, leaking will occur.



3. FORMING THE DRAIN HOSE AND PIPE

CAUTION
Do not remove the floor mat from the indoor unit pipe until immediately before connecting the connection pipe.

- To prevent breaking of the pipe, avoid sharp bends. Bend the pipe with a radius of curvature of 100 mm or over.
- If the pipe is bent repeatedly at the same place, it will break.

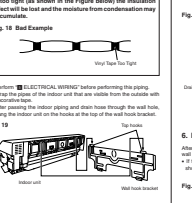


4. CONNECTING THE PIPING

WARNING
Do not use the existing piping and flare nuts. If the existing materials are used, the pressure inside the refrigerant cycle will rise and cause leakage, injury, etc. (Use the special R410A materials.)

CAUTION
Do not remove oil on flared part. Pressure increase will occur if the oil is removed. This will reduce the life of the system as the pressure inside the refrigerant cycle will rise and cause leakage, injury, etc. (Use the special R410A materials.)

- While welding the pipes, be sure to blow dry nitrogen gas through them.
- The maximum lengths of these pipes are shown in Table 3. If the units are further apart than this, correct operation can not be guaranteed.



5. CONNECTING THE PIPING

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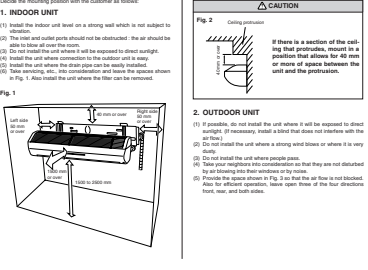
SELECTING THE MOUNTING POSITION

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
Do not install where there is the danger of combustible gas leakage.

CAUTION
Do not install near heat sources.

Do not install under 10 years old may approach the unit, take preventive measures so that they cannot reach the unit.



STANDARD ACCESSORIES

Name and Storage	Qty	Use
Wall hook bracket	1	For indoor installation
Remote control	1	Use for air conditioner control
Remote control unit holder	1	For remote control unit holder
Remote control unit holder	1	Use an remote control unit holder
Clean hose	1	For indoor unit installation
Insulation (drain hose)	1	For drain hose installation
Insulation (drain hose)	1	For drain hose installation
Tapping screw (DRY tap)	12	For wall hook bracket installation
Tapping screw (DRY tap)	2	For remote control unit holder installation
Filter	2	The holder is attached to the filter frame of the filter. (See the operating manual for details.)
Assembling filter	1	Air Cleaning Filter (Refer to the operating manual for details.)
Decorating filter	1	Air Cleaning Filter (Refer to the operating manual for details.)

OUTDOOR UNIT ACCESSORIES

Name and Storage	Qty	Use
Color cap	1	For covering the refrigerant side of the outdoor unit
Color cap	1	For covering the drain-piping side of the outdoor unit
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Color cap	1	For covering the drain-piping side of the outdoor unit

CONNECTION PIPE REQUIREMENT
Install heat insulation around both the gas and liquid pipes. Failure to do so may cause water leaks. Use heat insulation with heat resistance above 120 °C, fire-retardant type (etc.). In addition, if the humidity level at the installation location of the refrigerant piping is expected to exceed 70%, install heat insulation around the refrigerant piping. If the expected humidity level is 70-80%, use heat insulation that is 15 mm or thicker and if the expected humidity exceeds 80%, use heat insulation that is 25 mm or thicker. If heat insulation is used that is not as thick as specified, condensation may form on the surface of the insulation. In addition, use heat insulation with heat conductivity of 0.045 W/m·K or less at 25 °C.

Connect the connection pipes according to "CONNECTING THE PIPING" in the installation instruction sheet.

Use pipe with water-resistant heat insulation.

Use pipe that can withstand a pressure of 4.0 MPa (30 kg/cm²).

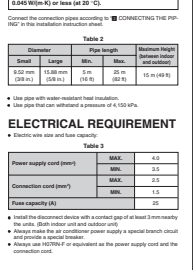
2 OUTDOOR UNIT INSTALLATION

WARNING
Install the unit where it will not be tilted by more than 5°.

CAUTION
When installing the outdoor unit where it may be exposed to strong wind, fasten it securely.

CAUTION
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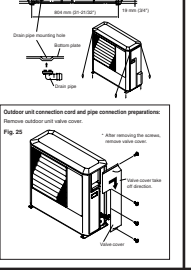


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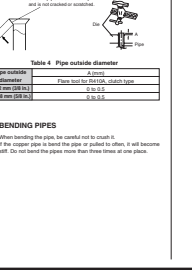


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Table 3 Pipe maximum length

Flare nut	Maximum length (m)
1/2 inch (12.7 mm)	35
3/8 inch (9.5 mm)	35
1/4 inch (6.3 mm)	35

Table 4 Pipe outside diameter

Flare nut	Outside diameter (mm)
1/2 inch (12.7 mm)	16.0
3/8 inch (9.5 mm)	12.7
1/4 inch (6.3 mm)	9.5

Table 5 Flare nut tightening torque

Flare nut	Tightening torque (N·m)
1/2 inch (12.7 mm)	35
3/8 inch (9.5 mm)	35
1/4 inch (6.3 mm)	35

Table 6 Power supply electrical requirement

Power supply (V)	MAX	MIN
220V	2.0	1.0
230V	2.5	1.5
240V	3.0	2.0

Table 7 Flow capacity (l/s)

Flow capacity (l/s)	MAX	MIN
220V	2.0	1.0
230V	2.5	1.5
240V	3.0	2.0

Table 8 Outdoor unit connection and pipe connection preparation

Item	Preparation
Indoor unit	Remove the floor mat.
Outdoor unit	Remove the floor mat.

VACUUM PROCESS

CAUTION

- (1) Do not purge the air with refrigerants but use a vacuum pump to vacuum the installation! There is no extra refrigerant in the outdoor unit for air purging!
- (2) Use a vacuum pump for R410A exclusively. Using the same vacuum pump for different refrigerants may damage the vacuum pump or the unit.

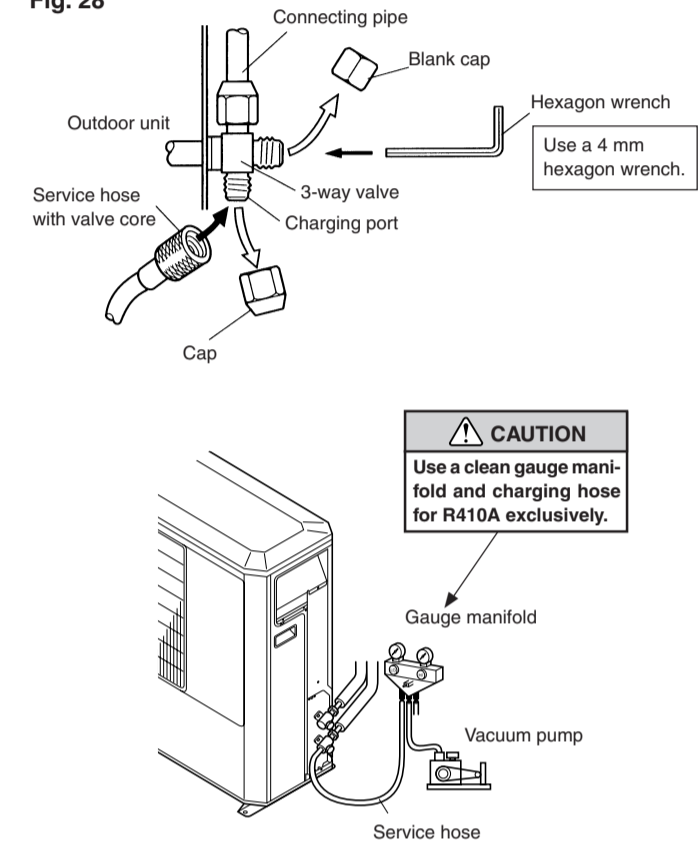
1. VACUUM

- Remove the cap, and connect the gauge manifold and the vacuum pump to the charging valve by the service hoses.
- Vacuum the indoor unit and the connecting pipes until the pressure gauge indicates -0.1 MPa (-76 cmHg).
- When -0.1 MPa (-76 cmHg) is reached, operate the vacuum pump for at least 15 minutes.
- Disconnect the service hoses and fit the cap to the charging valve to the specified torque.
- Remove the blank caps, and fully open the spindles of the 2-way and 3-way valves with a hexagon wrench (Torque : 6 to 7 N · m (60 to 70 kgf · cm)).
- Tighten the blank caps of the 2-way valve and 3-way valve to the specified torque.

Table 6

Tightening torque	
Blank cap (2-way valve)	20 to 25 N · m (200 to 250 kgf · cm)
Blank cap (3-way valve)	30 to 35 N · m (300 to 350 kgf · cm)
Charging port cap	10 to 12 N · m (100 to 120 kgf · cm)

Fig. 28



2. ADDITIONAL CHARGE

Refrigerant suitable for a piping length of 10 m is charged in the outdoor unit at the factory. When the piping is longer than 10 m, additional charging is necessary. For the additional amount, see the table below.

Table 7

Pipe length	10 m (33 ft)	15 m (49 ft)	20 m (66 ft)	25 m (82 ft)
Additional refrigerant	None (8.8 oz)	250 g (17.6 oz)	500 g (26.5 oz)	750 g (1.76 oz / 3.3 ft)

Between 10 m and 25 m, when using a connection pipe other than that in the table, charge additional refrigerant with 50 g (1.76 oz) / 1 m (3.3 ft) as the criteria.

CAUTION

- When moving and installing the air conditioner, do not mix gas other than the specified refrigerant (R410A) inside the refrigerant cycle.
- When charging the refrigerant R410A, always use an electronic balance for refrigerant charging (to measure the refrigerant by weight).
- When charging the refrigerant, take into account the slight change in the composition of the gas and liquid phases, and always charge from the liquid phase side whose composition is stable.
- Add refrigerant from the charging valve after the completion of the work.
- If the units are further apart than the maximum pipe length, correct operation can not be guaranteed.

3. GAS LEAKAGE INSPECTION

CAUTION

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

ELECTRICAL WIRING

WARNING

- Before starting work, check that power is not being supplied to indoor unit and the outdoor unit.
- 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.
- Connect the connection cords firmly to the terminal block. Imperfect installation may cause a fire.
- Always fasten the outside covering of the connection cord with the cord clamp. (If the insulator is chafed, electric leakage may occur.)
- Always connect the ground wire.

HOW TO CONNECT WIRING TO THE TERMINALS

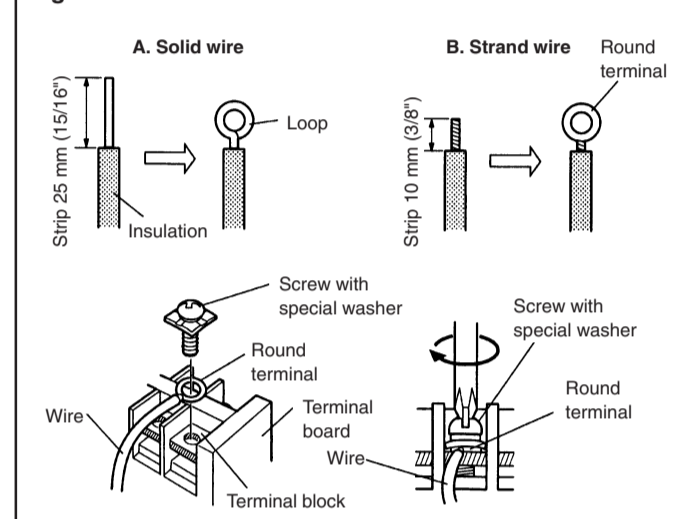
A. For solid core wiring (or F-cable)

- Cut the wire end with a wire cutter or wire-cutting pliers, then strip the insulation to about 25 mm (1 5/16") to expose the solid wire.
- Using a screwdriver, remove the terminal screw(s) on the terminal board.
- Using pliers, bend the solid wire to form a loop suitable for the terminal screw.
- 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

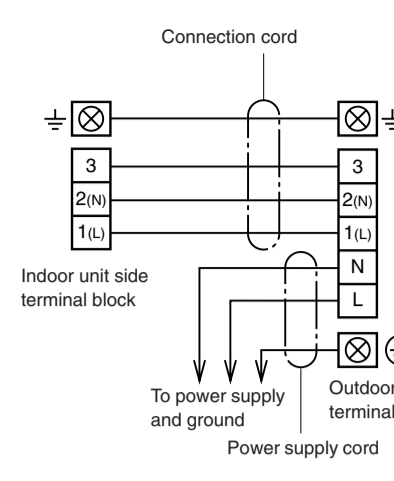
- Cut the wire end with a wire cutter or wire-cutting pliers, then strip the insulation to about 10 mm (3/8") to expose the strand wiring.
- Using a screwdriver, remove the terminal screw(s) on the terminal board.
- Using a round terminal fastener or pliers, securely clamp a round terminal to each stripped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

Fig. 29



1. CONNECTION DIAGRAM

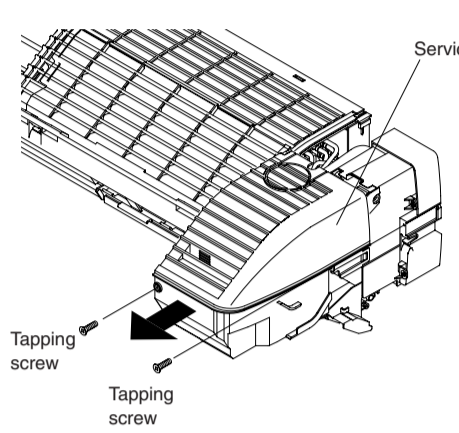
Fig. 30



2. INDOOR UNIT SIDE

- Remove the service cover (Fig. 31).
- Remove the cord clamp.
- Connect the end of the connection cord fully into the terminal block.
- Fasten the connection cord with a cord clamp.
- Install the service cover with the screw.

Fig. 31



Mount to position high on the wall:
Use the table below to set the wall mounting position.

Fig. 32

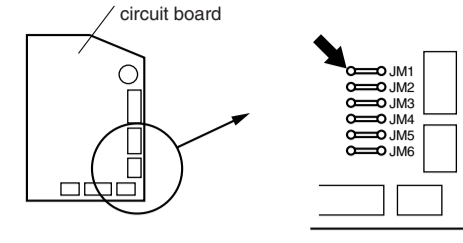
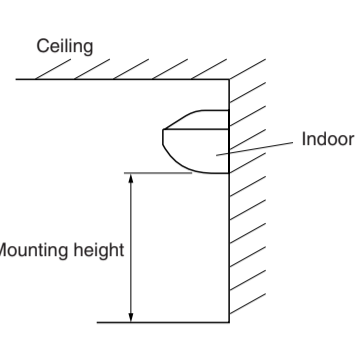
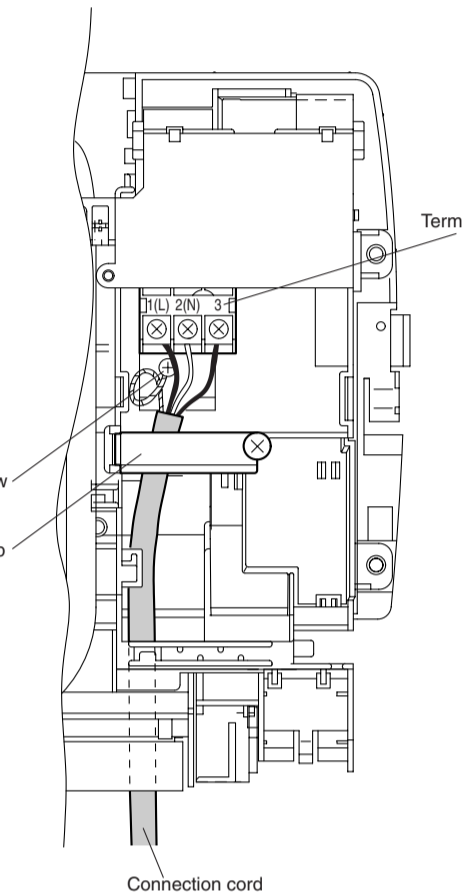


Fig. 33



Mounting height	Jumper wire (JM1)
1.5 m - 2.0 m	Connect (primary setting)
2.0 m - 2.5 m	Disconnect

Fig. 34



3. OUTDOOR UNIT SIDE

- Process the end of the connection cords to the dimensions shown in Fig. 35.
- Connect the end of the connection cord fully into the terminal block and fasten with the screws.
- Fasten the sheath with a cord clamp. (Fig. 36)
- Fasten the power supply cord and connection cord with a cable clip, and then make a putty-fix. (Fig. 37)
- Install the valve cover. (Fig. 38)

Fig. 35

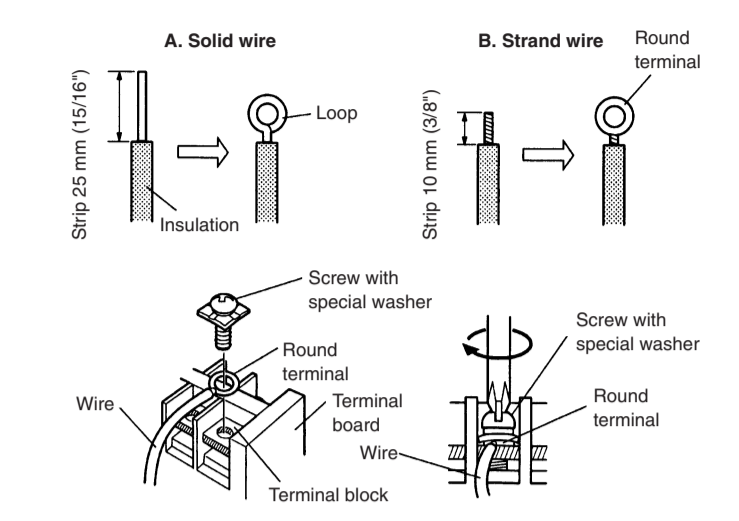
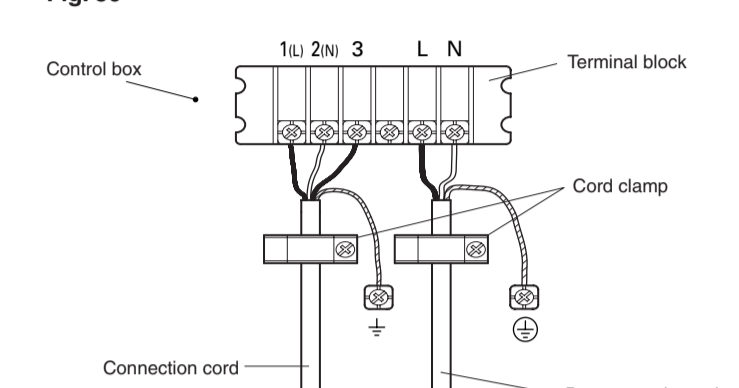


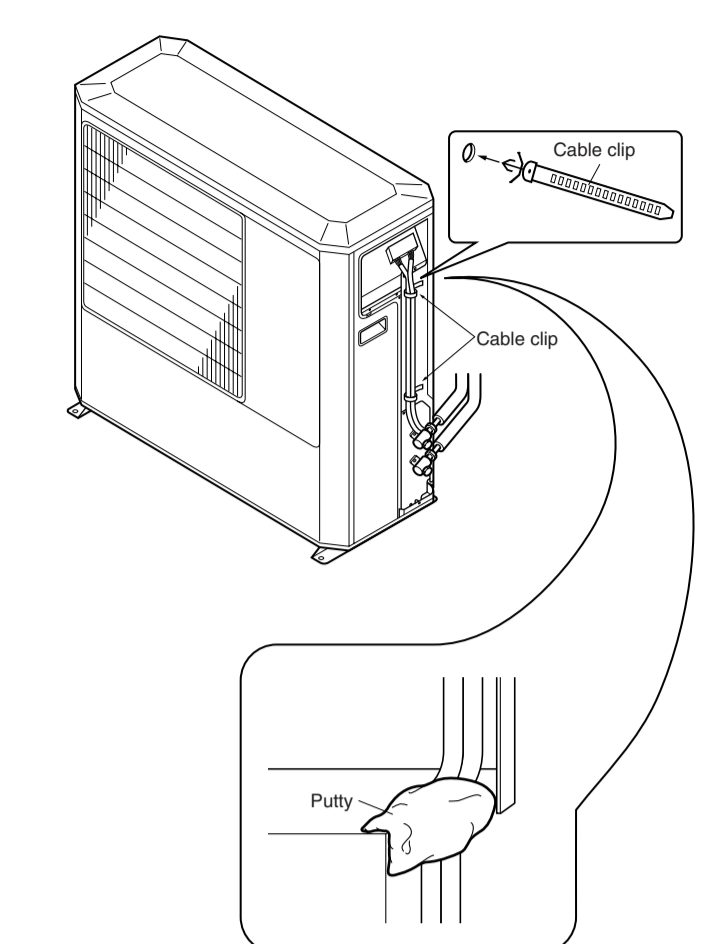
Fig. 36



CAUTION

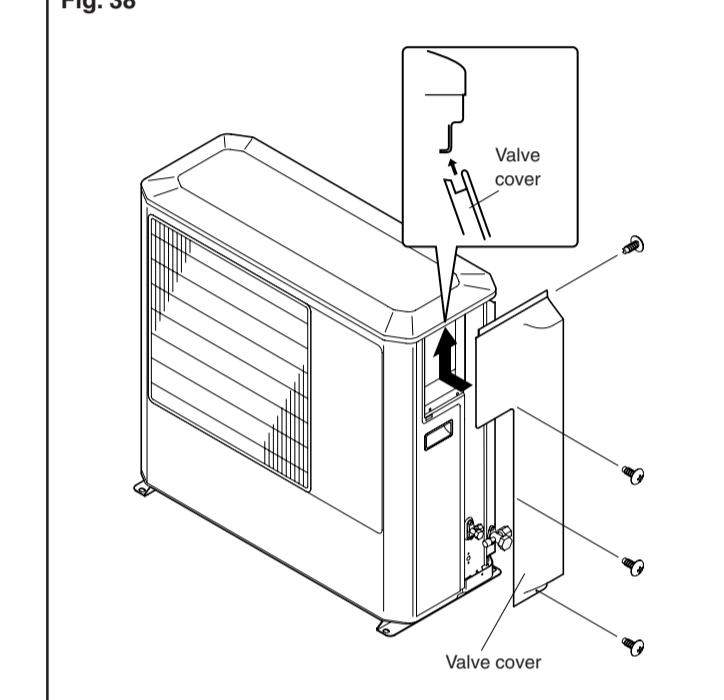
Apply putty so that there is no gap when the valve cover is installed.

Fig. 37



Installing the valve cover:

Fig. 38



FINISHING

1. CONNECTION PIPE, CORD AND DRAIN HOSE

- 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.
 - For ④ Left rear and ⑤ Left piping, butt the connection pipe heat insulation and indoor unit pipe heat insulation together and bind them with vinyl tape so that there is no gap.

Fig. 39

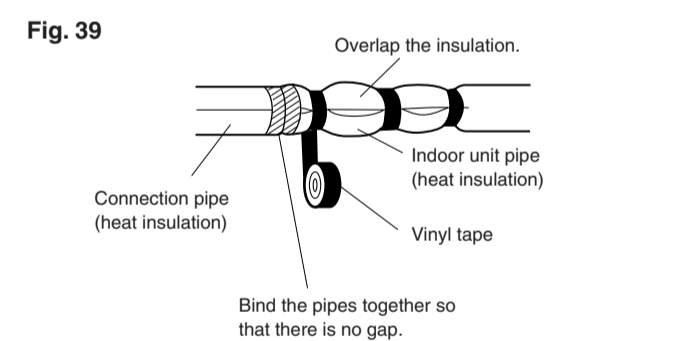


Fig. 40

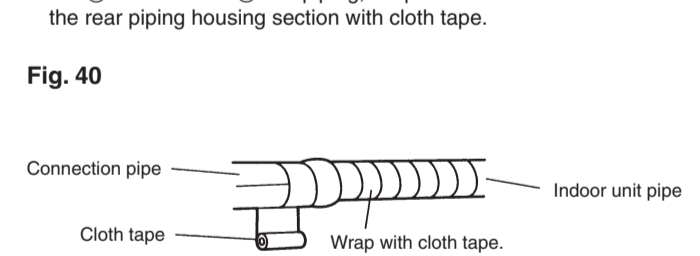
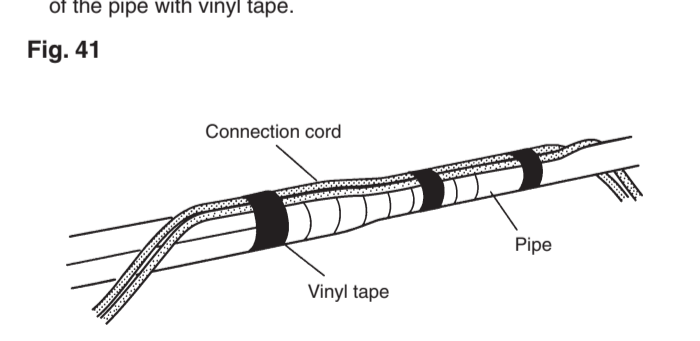


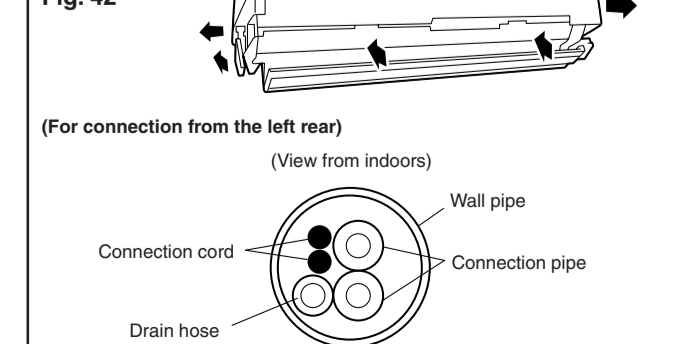
Fig. 41



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.
- When connected from the left rear, the drain hose is at the bottom left of the wall pipe.

Fig. 42



- 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.)
- Fasten the connection pipe to the outside wall with a saddle, etc.
- Fill the gap between the outside wall pipe hole and the pipe with sealer so that rain water and wind cannot blow in.

Fig. 43

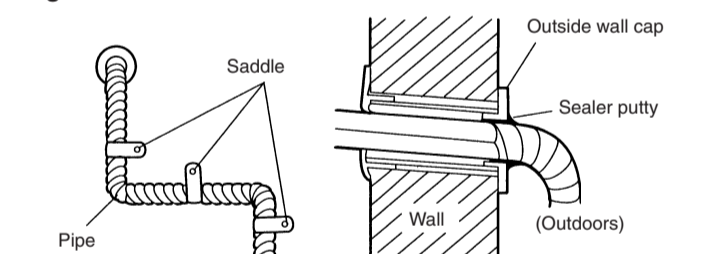
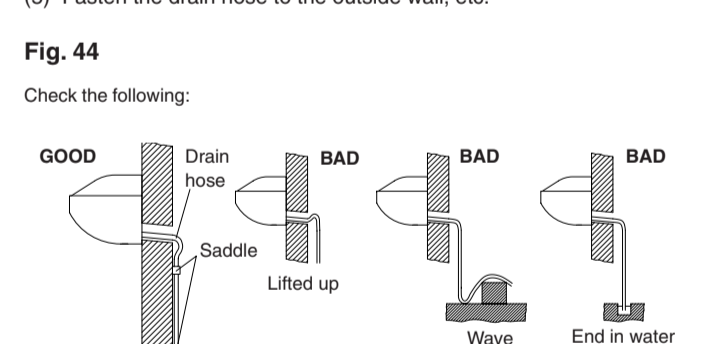


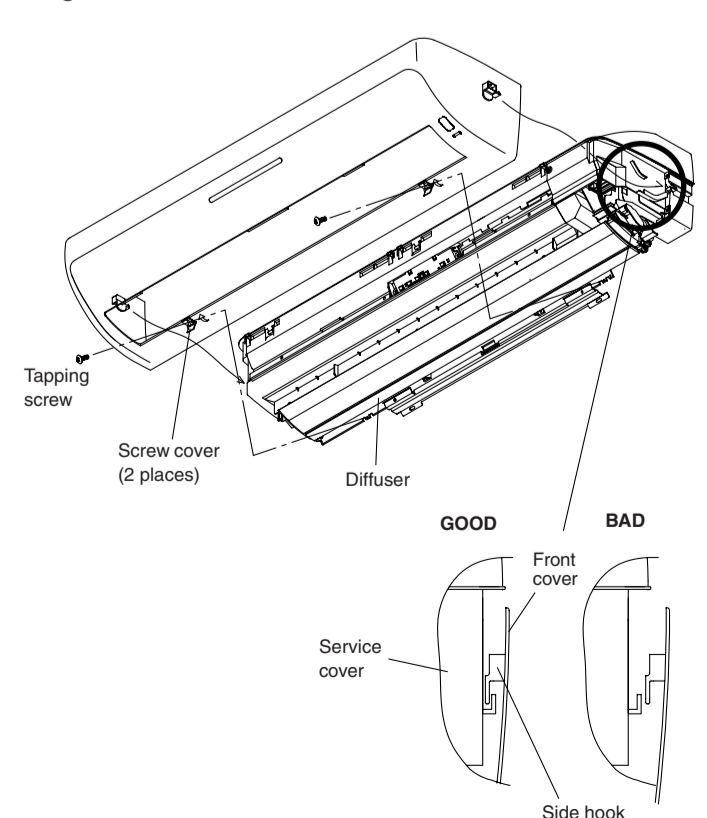
Fig. 44



2. INSTALLING FRONT COVER

- Carefully attach the front cover to the diffuser on the front of the body of the indoor unit.
- Secure the lower section of the front cover with tapping screws in two locations and close the screw cover.
- Push in the following hooks from the outside: front hook, 3 locations; side hook, 2 locations; under hook, 1 location.
- The last step is to push in the hook above the blower outlet.

Fig. 45



POWER

WARNING

- The rated voltage of this product is 220-240 V A.C. 50 Hz.
- Before turning on the verify that the voltage is within the 198 V to 264 V range.
- Always use a special branch circuit and install a special breaker to supply power to the room air conditioner.
- Use a circuit breaker matched to the capacity of the room air conditioner. (Install in accordance with standard)
- 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.
- Perform wiring work in accordance with standards so that the room air conditioner can be operated safely and positively.
- Install a leakage circuit breaker in accordance with the related laws and regulations and electric company standards.

CAUTION

- 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.
- When the voltage is low and the air conditioner is difficult to start, contact the power company the voltage raised.

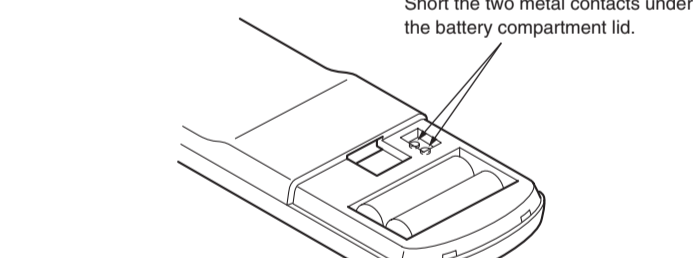
TEST RUNNING

CAUTION

Always turn on the power 4 hours prior to the start of the operation in order to ensure compressor protection.

- 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. 47



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.
 - If the breaker is tripped during the test operation due to insufficient current capacity, change the DIP switches on the circuit board to the settings shown in Table 8 below.

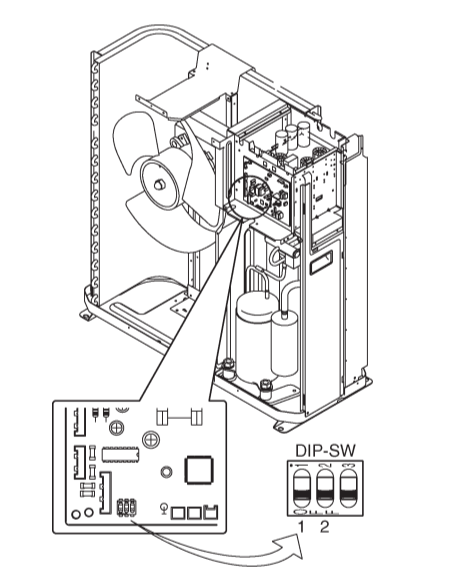
Table 8

DIP-SW			CURRENT (MAX.)
1	2	3	
OFF	OFF	OFF	16.5 A
ON	OFF	OFF	14.0 A
OFF	ON	OFF	12.0 A
ON	ON	OFF	9.5 A

CAUTION

- Never set the 24,000 BTU model to the maximum current of 16.5 A. The protection devices will be activated and the unit will not operate properly.
- If the maximum current is reduced, cooling or heating performance will be reduced.

Fig. 48



Error

The OPERATION, TIMER and SWING lamps operate as follows (Table 9) according to the error contents.

Table 9

Error contents	Error display		
	OPERATION (RED)	TIMER (YELLOW)	SWING (ORANGE)
Indoor unit circuit board error	○	○	—
Indoor unit room temperature sensor wire opened	2 times ●	○	—
Indoor unit room temperature sensor wire short circuited	2 times ●	○	○
Indoor unit piping sensor wire opened	3 times ●	○	—
Indoor unit piping sensor short circuited	3 times ●	○	○
Indoor unit fan error	8 times ●	○	—
Outdoor unit circuit board error or miswiring between outdoor unit and indoor unit	5 times ●	○	○
Outdoor unit discharge temperature sensor error	○	5 times ●	—
Outdoor unit piping sensor	○	3 times ●	—
Outdoor unit outdoor temperature sensor error	○	4 times ●	—

○ : Fast flashing ● : Slow flashing — : Off

CHECK ITEMS

- INDOOR UNIT
 - Is operation of each button on the remote control unit normal?
 - Does each lamp light normally?
 - Do not air flow direction louvers operate normally?
 - Is the drain normal?
 - Is there any abnormal noise and vibration during operation?
 - OUTDOOR UNIT
 - Is there any abnormal noise and vibration during operation?
 - Will noise, wind, or drain water from the unit disturb the neighbors?
 - Is there any gas leakage?
- Do not operate the air conditioner in the test running state for a long time.
 - For the operation method, refer to the operating manual and perform operation check.

REMOTE CONTROL UNIT INSTALLATION

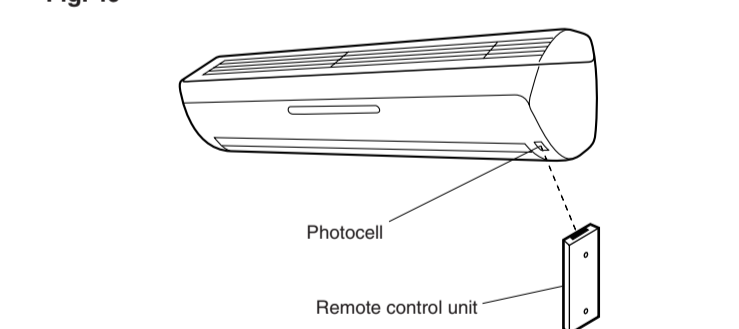
CAUTION

- Check that the indoor unit correctly receives the signal from the remote control unit, then install the remote control unit holder.
- 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 a stove, etc.

1. REMOTE CONTROL UNIT HOLDER INSTALLATION

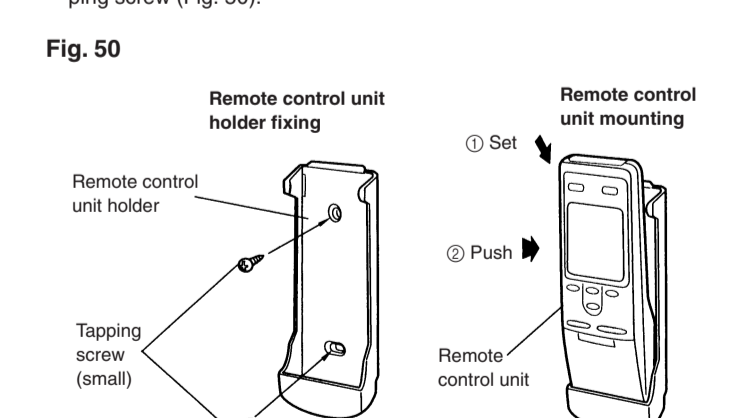
- Install the remote control unit so that the front is facing the photocell. (Fig. 49)

Fig. 49



- 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. 50).

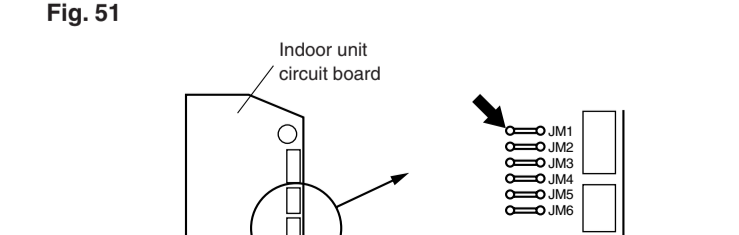
Fig. 50



2. SWITCHING REMOTE CONTROL UNIT SIGNAL CODES

Air conditioner settings

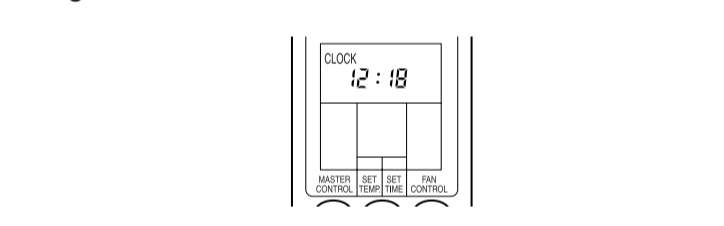
Fig. 51



Remote control unit settings

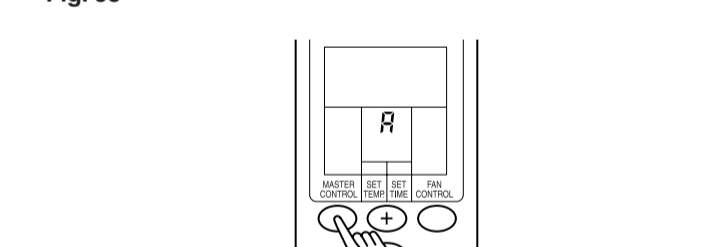
- Press the START/STOP button and display only the clock.

Fig. 52



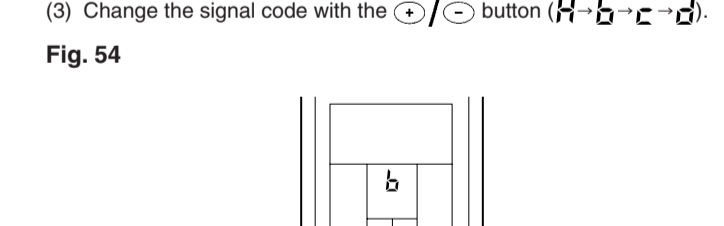
- Press the MASTER CONTROL button continuously for more than five seconds to display the current signal code.

Fig. 53



- Change the signal code with the ◀/▶ button (A-B-C-D).

Fig. 54

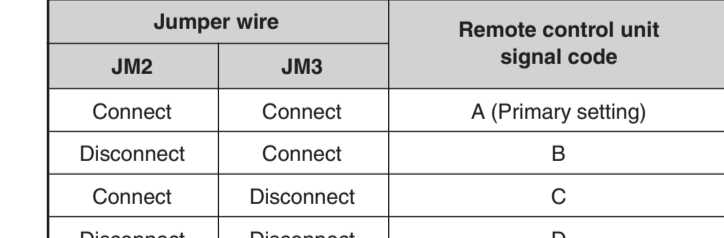


- Press the MASTER CONTROL button again to return to the clock display and change the signal code.

- 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.

Jumper wire		Remote control unit signal code
JM2	JM3	A (Primary setting)
Connect	Connect	B
Disconnect	Connect	C
Connect	Disconnect	D
Disconnect	Disconnect	D

Table 10



10 CUSTOMER GUIDANCE

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

- Starting and stopping method, operation switching, temperature adjustment, timer, air flow switching, and other remote control unit operations.
- Air filter removal and cleaning, and how to use the air louvers.
- Give the operating manual and installation instruction sheet to the customer.