



INSTALLATION MANUAL

VRV SYSTEM Inverter Air Conditioners

MODELS Floor standing type and Concealed floor standing type

FXLQ12MVJU FXNQ12MVJU FXLQ18MVJU FXNQ18MVJU FXLQ24MVJU FXNQ24MVJU

> Read these instructions carefully before installation. Keep this manual in a handy place for future reference. This manual should be left with the equipment owner.

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1. SAFETY CONSIDERATIONS

Please read these "SAFETY CONSIDERATIONS" carefully before installing air conditioning equipment and be sure to install it correctly. After completing the installation, make sure that the unit operates properly during the start-up operation. Please instruct the customer on how to operate the unit and keep it maintained.

Also, inform customers that they should store this installation manual along with the operation manual for future reference. This air conditioner comes under the term "appliances not accessible to the general public".

Meaning of warning, caution and note symbols.

	Indication a potentially hazardous sit- uation which, if not avoided, could result in death or serious injury.
	Indication a potentially hazardous sit- uation which, if not avoided, may result in minor or moderate injury. It may also be sued to alert against unsafe practices.
A NOTE	Indication situation that may result in equipment or property-damage-only accidents.

- Ask your dealer or an authorized personnel to carry out installation work. Do not try to install the unit by your-self.

Improper installation may result in water leakage, electric shocks or fire.

• Perform installation work in accordance with this installation manual.

Improper installation may result in water leakage, electric shocks or fire.

 When installing the unit in a small room, take measures against to keep refrigerant concentration from exceeding allowable safety limits in the event of refrigerant leakage.

Contact the place of purchase for more information. Excessive refrigerant in a closed ambient can lead to oxygen deficiency.

• Be sure to use only the specified accessories and parts for installation work.

Failure to use the specified parts may result in water leakage, electric shocks, fire or the unit falling.

- Install the air conditioner on a foundation strong enough to withstand the weight of the unit.
 A foundation of insufficient strength may result in the equipment falling and causing injuries.
- Carry out the specified installation work after taking account of strong winds, typhoons or earthquakes. Improper installation work may result in the equipment falling and causing accidents.
- Make sure that a separate power supply circuit is provided for this unit and that all electrical work is carried out by an authorized personnel according to local laws, regulations and this installation manual. An insufficient power supply capacity or improper electrical construction may lead to electric shocks or fire.
- Make sure that all wiring is secured, the specified wires are used, and no external forces act on the terminal connections or wires.

Improper connections or installation may result in fire.

• When wiring the power supply and connecting the remote controller wiring and transmission wiring, position the wires so that the electric parts box lid can be securely fastened.

Improper positioning of the electric parts box lid may result in electric shocks, fire or the terminals overheating.

 If the refrigerant gas leaks during installation, ventilate the area immediately.
 Toxic gas may be produced if the refrigerant gas comes into

contact with fire.

 After completing the installation work, check that the refrigerant gas does not leak.
 Toxic gas may be produced if the refrigerant gas leaks into the room and comes into contact with a source of fire, such

the room and comes into contact with a source of fire, such as a fan heater, stove or cooker.

- Before touching electrical parts, turn off the unit.
- Ground the air conditioner. Do not connect the ground wire to gas or water pipes, lightning rod or a telephone ground wire.

Incomplete grounding may result in electric shocks.

- Do not touch the switch with wet fingers. Touching a switch with wet fingers can cause electric shock.
- Install a leak circuit breaker, as required. If a leak circuit breaker is not installed, electric shock may result.
- Do not install the air conditioner in the following locations:

(a) where a mineral oil mist or an oil spray or vapor is produced, for example in a kitchen. Plastic parts may deteriorate and fall off or result in water leakage.

(b) where corrosive gas, such as sulfurous acid gas, is produced. Corroding copper pipes or soldered parts may result in refrigerant leakage.

(c) near machinery emitting electromagnetic waves. Electromagnetic waves may disturb the operation of the control system and result in a malfunction of the equipment.

(d) where flammable gases may leak, where there are carbon fiber or ignitable dust suspensions in the air, or where volatile liquids such as thinner or gasoline are handled. Operating the unit in such conditions may result in fire.

- While following the instructions in this installation manual, insulate piping in order to prevent condensation. Improper piping insulation may result in water leakage and property damage.
- Do not touch the heat exchanger fins. Improper handling may result in injury.
- Be very careful about product transportation. Some products use PP bands for packaging. Do not use any PP bands for a means of transportation. It is dangerous.
- Safely dispose of the packing materials. Packing materials, such as nails and other metal or wooden parts, may cause stabs or other injuries.

Tear apart and throw away plastic packaging bags so that children will not play with them. If children play with a plastic bag which was not torn apart, they face the risk of suffocation.

• Do not turn off the power immediately after stopping operation.

Always wait at least five minutes before turning off the power. Otherwise, water leakage and trouble may occur.

 Install the indoor and outdoor units, power supply wiring and connecting wires at least 3.5ft. away from televisions or radios in order to prevent image interference or noise.

(Depending on the radio waves, a distance of 3.5ft. may not be sufficient enough to eliminate the noise.)

- Remote controller (wireless kit) transmitting distance can result shorter than expected in rooms with electronic fluorescent lamps. (inverter or rapid start types) Install the indoor unit as far away from fluorescent lamps as possible.
- This unit is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take
- adequate measures.
 Dismantling of the unit, treatment of the refrigerant, oil and eventual other parts, should be done in accordance with the relevant local and national regulations.

2. BEFORE INSTALLATION

- When moving the unit while removing it from the packing case, be sure to lift it without exerting any pressure on other parts, especially, the refrigerant piping, drain piping, and other resin parts.
- Be sure to check the type of R410A refrigerant to be used before installing the unit. (Using an incorrect refrigerant will prevent normal operation of the unit.)
- The accessories needed for installation must be retained in your custody until the installation work is completed. Do not discard them!
- Decide upon a line of transport.
- Leave the unit inside its packaging while moving, until reaching the installation site. Where unpacking is unavoidable, use a sling of soft material or protective plates together with a rope when lifting, to avoid damage or scratches to the unit.
- For the installation of an outdoor unit, refer to the installation manual attached to the outdoor unit.
- Do not install or operate the unit in rooms mentioned below.
 - Laden with mineral oil, or filled with oil vapor or spray like in kitchens. (Plastic parts may deteriorate which could eventually cause the unit to fall out of place, or could lead to leaks.)

- Where corrosive gas like sulfurous gas exists. (Copper tubing and brazed spots may corrode which could eventually lead to refrigerant leaks.)
- Where exposed to flammable gases and where volatile liquids like thinner or gasoline is used. (Gas in the vicinity of the unit could ignite.)
- Where machines can generate electromagnetic waves. (Control system may malfunction.)
- Where the air contains high levels of salt such as that near the ocean and where voltage fluctuates greatly such as that in factories.
 Also in vehicles or vessels.
- This unit, both indoor and outdoor, is suitable for installation in a commercial and light industrial environment.
 If installed as a household appliance it could cause electromagnetic interference.

- · Be sure to read this manual before installing the indoor unit.
- Entrust installation to the place of purchase or an authorized serviceman. Improper installation could lead to leaks and, in worse cases, electric shock of fire.
- Use only parts provided with the unit or parts satisfying required specifications. Unspecified parts could cause the unit to fall out of place, or could lead to leaks and, in worse cases, electric shock or fire.

2-1 ACCESSORIES

Check the following accessories are included with your unit.



2-2 OPTIONAL ACCESSORIES

Table 1

Remote controller			
Wired type	BRC1C71		

FOR THE FOLLOWING ITEMS, TAKE SPECIAL CARE DURING CONSTRUCTION AND CHECK AFTER INSTALLATION IS FINISHED.

a. Items to be checked after completion of work

Items to be checked	If not properly done, what is likely to occur	Check
Are the indoor and outdoor unit fixed firmly?	The units may drop, vibrate or make noise.	
Is the gas leak test finished?	It may result in insuffcient cooling.	
Is the unit fully insulated?	Condensate water may drip.	
Does drainage flow smoothly?	Condensate water may drip.	
Does the power supply voltage correspond to that shown on the name plate?	The unit may malfunction or the components burn out.	
Are wiring and piping correct?	The unit may malfunction or the components burn out.	
Is the unit safely grounded?	It may be dangerous at electric leakage.	
Is wiring size according to specifications?	The unit may malfunction or the components burn out.	
Is something blocking the air outlet or inlet of either the indoor or outdoor units?	It may result in insufficient cooling.	
Are refrigerant piping length and additional refrigerant charge noted down?	The refrigerant charge in the system is not clear.	

b. Items to be checked at time of delivery

Also review the "SAFETY CONSIDERATIONS"

Items to be checked	Check
Did you explain about operations while showing the operation manual to your customer?	
Did you hand the operation manual over to your customer?	

c. Points for explanation about operations

The items with A WARNING and CAUTION marks in the operation manual are the items pertaining to possibility for bodily injury and material damage in addition to the general usage of the product. Accordingly, it is necessary that you make a full explanation about the described contents and also ask your customers to read the operation manual.

2-3 NOTE TO THE INSTALLER

Be sure to instruct customers how to properly operate the unit (especially cleaning filters, operating different functions, and adjusting the temperature) by having them carry out operations themselves while looking at the manual.

3. SELECTING INSTALLATION SITE

- Select an installation site where the following conditions are satisfied and that meets with your customer's approval.
 - Where the floor is strong enough to bear the indoor unit weight.
 - Where the floor is not significantly inclined.
 - Where nothing blocks the air passage.
 - · Where condensate can be properly drained.
 - Where sufficient clearance for installation and maintenance can be ensured.
 - Where optimum air distribution can be ensured.
 - Where there is no risk of flammable gas leakage.
 - Where piping between indoor and outdoor units is possible within the allowable limit. (Refer to the installation manual of the outdoor unit.)

 Install the indoor and outdoor units, power supply wiring and connecting wires at least 3.5 ft. away from televisions or radios in order to prevent image interference or noise. (Depending on the radio waves, a distance of 3.5 ft. may not be enough to eliminate the noise.)





(length : in.)



(IMPORT ANT) Leave sufficient clearance for air inlet and maintenance.

Model	A (in.)	B (in.)
FXNQ12MVJU	28	46
FXNQ18 - 24MVJU	39	67

4. PREPARATIONS BEFORE INSTALLA-TION

(1) Positioning of holes for fastening to the wall



Model	A(in.)
12 lype	28 3/4
18 - 24 type	39 3/4

(2) How to open / close the front panel (FXLQ)



- 1. Open the lid of control panel (both left and right)
- 2. Remove screws (both left and right) that lock the knobs in position.
- 3. Push the knobs (both left and right) to the rear.
- 4. Lift the front of the top plate.
- 5. Lower the front panel towards the front of the unit.
- To close, perform the procedure in opposite order. Pull towards the front of the unit the knob snaps in place.

5. INDOOR UNIT INSTALLATION

As for the parts to be used for installation work, be sure to use the provided accessories and specified parts designated by Daikin.

(1) Level the indoor unit with the leveling screws (7). If the floor is too uneven to level the unit, place the unit on a flat base and level.



- (2) If the unit is in danger of falling over, either fasten to the wall using the holes provided, or fasten to the floor with an optional floor fastener.
- (3) The legs can be retracted if the indoor unit is to be hung on a wall. To do so, lift the legs as shown in the figure below.



- Use the installation mount for installation. Check whether the wall is strong enough to bear the weight of the unit or not. if there is a risk, reinforce the wall before installing the unit
- 2. The unit requires a minimum 4 in. clearance on the underside for air intake. Also, ensure the unit is level when installed so that drainage flows smoothly. if inclined, water can leak.
- 3. By a state of the wall, operating sound may become bigger.

- (4) Perform the following procedure to mount the remote controller (optional accessory) on the unit if desired. (FXLQ type only)
 - Open the left side lid of control panel and mount the lower case of the remote controller.

See the installation manual attached to the remote controller for instructions on screw fastening and wiring for the remote controller.



Setting the unit at an angle opposite to the drain piping might cause leaks.

6. REFRIGERANT PIPING WORK

For refrigerant piping of outdoor units, see the installation manual attached to the outdoor unit.

Execute heat insulation work completely on both sides of the gas piping and the liquid piping. Otherwise, a water leakage can result sometimes.

(When using a heat pump, the temperature of the gas piping can reach up to approximately 250°F, so use insulation which is sufficiently resistant.)

Also, in cases where the temperature and humidity of the refrigerant piping sections might exceed 86°F or RH80%, reinforce the refrigerant insulation. (13/16" or thicker) Condensate may form on the surface of the insulating material. Before refrigerant piping work, check which type of refrigerant is used. Proper operation is not possible if the types of refrigerant are not the same.



- Use a pipe cutter and flare suitable for the type of refrigerant.
- To prevent dust, moisture or other foreign matter from infiltrating the tube, either pinch the end or cover it with tape.
- Do not allow anything other than the designated refrigerant to get mixed into the refrigerant circuit, such as air, etc.
- If any refrigerant gas leaks while working on the unit, ventilate the room thoroughly right away.
- The outdoor unit is charged with refrigerant.
- Use copple alloy seamless pipes.
- To prevent flare nut cracking and gas leaks, be sure to use both a spanner and torque wrench together, as shown in the drawing, when connecting or disconnecting pipes to / from the unit.
- Refer to Table 2 for the dimensions of flare.
- When connecting the flare nut, coat the flare section (both inside and outside) with ester oil or ether oil, rotate three or four times first, then screw in.
- Refer to the Table 2 for tightening torque.

- After inspecting pipe joints for gas leakage, be sure to insulate with the accessory joint insulation for fitting (3) (4) while referring to the figure below.
 - (Fasten both ends with clamps (6)).
- Wrap only the gas line side with the sealing pad (5). Bend the pad over the insulation for fitting (union) from above.



Use "Table 3" as a reference if a torque wrench is not available. Once work is complete, make sure there is no gas leaking. As the flare nut is tightened with the wrench, the torque will suddenly increase. From that position, tighten the nut to the angle shown on "Table 3".

• Make absolutely sure to execute heat insulation works on the pipe-connecting section after checking gas leakage by thoroughly studying the following figure and using the attached heat insulating materials for fitting (3) and (4). (Fasten both ends with the clamps (6) (accessory).) (Refer to Fig. 1)



Be sure to insulate any field piping all the way to the piping connection inside the unit. Any exposed piping may cause condensate or burns if touched.

CAUTION TO BE TAKEN WHEN BRAZING REFRIGER-ANT PIPING

Do not use flux when brazing refrigerant piping. Therefore, use the phosphor copper brazing filter metal (BCuP) which does not require flux.

(Flux has extremely harmful infulence on refrigerant piping system. For instance, if the chlorine based flux is used, it will cause pipe corrosion or, in particular, if the flux contains fluorine, it will damage the refrigerant oil.)

- Before brazing local refrigerant piping, nitrogen gas shall be blown through the piping to expel air from the piping. If brazing is done without nitrogen gas blowing, a large amount of oxide film develops inside the piping, and could cause system malfunction.
- When brazing the refrigerant piping, only begin brazing after having carried out nitrogen substitution or while inserting nitrogen into the refrigerant piping. Once this is done, connect the indoor unit with a flared or a flanged connection.
- Nitrogen should be set to 2.9 psi with a pressure-reducing valve if brazing while inserting nitrogen into the piping.



Use the flare nuts attached with the unit.

• Refer to Table 2 for tightening torque.

Table 2

Pipe size	Tightening torque (ft-lbf)	Flare dimensions A (in.)	Flare shape (in.)
φ 1/4"	10.5 – 12.7	0.343 - 0.358	>
φ 3/8"	24.1 – 29.4	0.504 - 0.520	HO.016~0.031
φ 1/2"	36.5 – 44.5	0.638 - 0.654	
φ 5/8"	45.6 - 55.6	0.760 - 0.776	4

Not recommendable but in case of emergency

You must use a torque wrench but if you are obliged to install the unit without a torque wrench, you may follow at the installation mathed montioned below.

follow at the installation method mentioned below.

After the work is finished, make sure to check that there is no gas leak.

When you keep on tightening the flare nut with a spanner, there is a point where the tightening torque suddenly increases. From that position, further tighten the flare nut at the angle shown below:

ble 3		(in.)
Pipe size	Further tightening angle	Recommended arm length of tool
φ 1 /4"	60 to 90 degrees	Approx. 5 7/8
φ 3/8"	60 to 90 degrees	Approx. 7 7/8
φ 1/2"	30 to 60 degrees	Approx. 9 13/16
φ 5/8"	30 to 60 degrees	Approx. 11 13/16
	ble 3 Pipe size φ 1/4" φ 3/8" φ 1/2" φ 5/8"	bit 3 Further tightening angle Pipe size Further tightening angle \$\operatorname{1} 1/4" 60 to 90 degrees \$\operatorname{3} 3/8" 60 to 90 degrees \$\operatorname{3} 3/8" 60 to 90 degrees \$\operatorname{3} 1/2" 30 to 60 degrees \$\operatorname{5} 5/8" 30 to 60 degrees

7. DRAIN PIPING WORK

Rig the drain pipe as shown below and take measures against condensate. Improperly rigged piping could lead to leaks and eventually wet furniture and belongings.

(1) Carry out the drain piping



• If converging multiple drain pipes, install according to the procedure shown below.



Select converging drain pipes whose gauge is suitable for the operating capacity of the unit.

- (2) After piping work is finished, check drainage flows smoothly.
 - Add approximately 1 liter of water slowly from the air outlet and check drainage flow.
- (3) Be sure to insulate all indoor pipes

Drain piping connections

Do not connect the drain piping directly to sewage pipes that smell of ammonia. The ammonia in the sewage might enter the indoor unit through the drain pipes and corrode the heat exchanger.

• Keep in mind that it will become the cause of getting drain pipe blocked if water collects on drain pipe.

8. ELECTRIC WIRING WORK

8-1 GENERAL INSTRUCTIONS

- All field supplied parts and materials, electric works must conform to local codes.
- Use copper wire only.
- Follow the "WIRING DIAGRAM" attached to the unit to wire the outdoor unit, indoor units and the remote controllers.
 For details on hooking up the remote controller, refer to the "INSTALLATION MANUAL OF REMOTE CONTROLLER."
- All wiring must be performed by an authorized electrician.
- This system consists of multiple indoor units. Mark each indoor unit as unit A, unit B..., and be sure the terminal block wiring to the outdoor unit and BS unit is properly matched. If wiring and piping between the outdoor unit and indoor unit are mismatched, the system may cause a malfunction.
- A circuit breaker capable of shutting down the power supply to the entire system must be installed.
- Be sure to ground the air conditioner.
- Do not connect the ground wire to gas pipes, water pipes, lightning rods, or telephone ground wires.
 - Gas pipes: might cause explosions or fire if gas leaks.
 - Water pipes: no grounding effect if hard vinyl piping is used.
 - Lightning rods or telephone ground wires: might cause abnormally high electric potential in the ground during lightning.

8-2 ELECTRICAL CHARACTERISTICS

Units				Power supply		Fan motor		
Model	Hz	Volts	Voltage range	MCA	MFA	W	FLA	
FXLQ12MVJU, FXNQ12MVJU	60	208- 230	60 208- 230	208- Max. 253 230 Min. 187	0.5	15	25	0.4
FXLQ18 · 24MVJU, FXNQ18 · 24MVJU	00				Min. 187	0.6	15	35

MCA: Min. Circuit Amps (A); MFA: Max. Fuse Amps (A) W: Fan Motor Rated Output (W); FLA: Full Load Amps (A)

8-3 SPECIFICATIONS FOR FIELD SUPPLIED FUSES AND WIRE

	Power	supply wiring	Remote controller wiring Transmission wiring		
Model	Field fuses	Size	Wire	Size	
FXLQ12 · 18 · 24 MVJU	154	Size must com-	Sheathed	AWG	
FXNQ12 · 18 · 24 MVJU	134	codes.	(2 wire)	18-16	

- Allowable length of transmission wiring between indoor / outdoor units and between the indoor unit and the remote controller is as follows.
 - (1) Outdoor unit Indoor unit:
 - Max. 3280 ft. (Total wiring length: 6560 ft.) (2) Indoor unit – Remote controller:
 - Max. 1640 ft.
- 2. Insulated thickness: 1/16" or more.

9. WIRING EXAMPLE AND HOW TO SET THE REMOTE CONTROLLER

9-1 HOW TO CONNECT WIRINGS

• Remove the electric parts box lid and connect the wirings.



-🛕 NOTE -

- For wiring to the electric parts box, also see "Wiring Diagram" label on the back of the electric parts box lid.
- Do not confuse remote controller wiring and transmission wiring when connecting to the terminal block.
- Fasten the wiring with accessory clamp (6).
- If mounting a remote controller on the unit, wire as shown in the figure on the right.
 Pass through hole or remote controller fastering plate.

Remote controller wining

-A CAUTION

- Be sure to attach the sealing material or putty (field supplied) to the hole for wiring to prevent the infiltration of water as well as any insects and other small creatures from outside. Otherwise a short-circuit may occur inside the electric parts box.
- When clamping the wirings, be sure no tension is applied to the wire connections by using the included clamps. Also, when wiring, make sure the electric parts box lid fits snugly by arranging the wirings neatly and attaching the electric parts box lid firmly. When attaching the electric parts box lid, make sure no wirings get caught in the edges. Pass the wirings through the hole to prevent damage.
- Make sure the remote controller wiring, the wiring between the units, and other electric wiring do not pass through the same locations outside of the unit, separating them by at least 5", otherwise electric noise (external static) could cause mistaken operation or breakage.

[PRECAUTIONS]

- **1.** Use round crimp-style terminals for connecting wires to the power supply terminal block.
 - If unavailable, observe the following points when wiring.
 - Do not connect wires of different gauge to the same power supply terminal.
 - (Looseness in the connection may cause overheating.)Use the specified electric wire. Connect the wire securely
 - to the terminal. Lock the wire down without applying excessive force to the terminal. (Tightening torque: 0.97ft.lbf ±10 %)

Attach insulation sleeve



Electric wire

2. Tightening torque for the terminal screws.

- Use the correct screwdriver for tightening the terminal screws. If the blade of screwdriver is too small, the head of the screw might be damaged, and the screw will not be properly tightened.
- If the terminal screws are tightened too hard, they might be damaged.
- Refer to the table below for the tightening torque of the terminal screws.

Terminal	Size	Tightening torque (ft-lbf)
Terminal block for remote controller (6P)	M3.5	0.58 – 0.72
Power supply terminal block (2P)	M4	0.87 – 1.06
Ground terminal	M4	1.06 – 1.43

- Do not connect wires of different gauge to the same grounding terminal. Looseness in the connection may deteriorate protection.
- 4. Outside of the unit, keep transmission wiring at least 5" away from power supply wiring. The equipment may malfunction if subjected to electric (external) noise.
- 5. For remote controller wiring, refer to the "INSTALLATION MANUAL OF REMOTE CONTROLLER".
- 6. Never connect power supply wiring to the terminal block for remote controller wiring. A mistake of the sort could damage the entire system.

7. Use only specified wire and tightly connect wires to terminals. Be careful wires do not place external stress on terminals. Keep wiring in neat order and so as not to obstruct other equipment such as popping open the electric parts box lid. Make sure the lid closes tight. Incomplete connections could result in overheating, and in worse case, electric shock or fire.

9-2 WIRING EXAMPLE

• Fit the power supply wiring of each unit with a switch and fuse as shown in the drawing.

COMPLETE SYSTEM EXAMPLE (3 SYSTEMS)



1. When using 1 remote controller for 1 indoor unit. (Normal operation)



2. For group control or use with 2 remote controllers



3. When including BS unit





- 1. A single switch can be used to supply power to units on the same system. However, branch switches and branch circuit breakers must be selected carefully.
- 2. Do not ground the equipment on gas pipes, water pipes, lightning rods or telephone ground wires. Improper grounding could result in electric shock.

9-3 CONTROL BY 2 REMOTE CONTROLLERS (Controlling 1 indoor unit by 2 remote controllers)

• When using 2 remote controllers, one must be set to "MAIN" and the other to "SUB".

MAIN/SUB CHANGEOVER

 Insert a screwdriver into the recess between the upper and lower part of remote controller, and working from the 2 positions, pry off the upper part.

The remote controller PC board is attached to the upper part of remote controller.



Insert the screwdriver here and gently work of the upper part of remote controller.

(2) Turn the MAIN/SUB changeover switch on one of the two remote controllers PC board to "S". (Leave the switch of the other remote controller set to "M".)



Wiring Method (See "8. ELECTRIC WIRING WORK")

- (3) Remove the electric parts box lid
- (4) Add remote control 2 (slave) to the terminal block for remote controller (P₁, P₂) in the electric parts box.
 (There is no polarity.) (Refer to Fig. 2 and 8-3.)

9-4 COMPUTERISED CONTROL (FORCED OFF AND ON/OFF OPERATION)

(1) Wire specifications and how to perform wiring
 Connect input from outside to terminals T1 and T2 of the terminal block for remote controller.



Wire specification	Sheathed vinyl cord or cable (2 wire)
Gauge	AWG18-16
Length	Max. 328 ft.
External terminal	Contact that can ensure the minimum applicable load of 15 V DC, 10 mA.

(2) Actuation

• The following table explains FORCED OFF and ON/OFF OPERATIONS in response to input A.

FORCED OFF	ON/OFF operation
Input "ON" stops operation (impossible by remote controllers).	Input OFF \rightarrow ON turns ON unit.
Input OFF enables control by remote con- troller.	Input ON \rightarrow OFF turns OFF unit.

(3) How to select FORCED OFF and ON/OFF

• Turn the power on and then use the remote controller to select operation.

9-5 CENTRALIZED CONTROL

• For centralized control, it is necessary to designate the group No. For details, refer to the manual of each optional controllers for centralized control.

10. FIELD SETTING

Make sure the electric parts box lids are closed on the indoor and outdoor units. Field setting must be made from the remote controller in

Field setting must be made from the remote controller in accordance with the installation condition.

- Setting can be made by changing the "Mode No.", "FIRST CODE NO.", and "SECOND CODE NO.".
- For setting and operation, refer to the "FIELD SETTING" in the installation manual of the remote controller.



FIELD SET MODE

- Set the remote controller to the field set mode. For details, refer to the "HOW TO SET IN THE FIELD", in the remote controller manual.
- When in the field set mode, select mode No. 12, then set the first code (switch) No. to "1". Then set second code (position) No. to "01" for FORCED OFF and "02" for ON / OFF OPERATION. (FORCED OFF at factory set)

11. TEST OPERATION

Make sure the service lids are closed on the indoor and outdoor units.

Refer to the installation manual of the outdoor unit.

• The operation lamp of the remote controller will flash when a malfunction occurs. Check the malfunction code on the liquid crystal display to identify the point of trouble. An explanation of malfunction codes and the corresponding trouble is provided in the installation manual of the outdoor unit.

If any of the items in Table 4 are displayed, there may be a problem with the wiring or power, so check the wiring again.

Table 4

Remote control display	Content
" (under cen- tralized control) is lit up	There is a short circuit at the FORCED OFF terminals (T1, T2)
"U4" is lit up "UH" is lit up	 The power on the outdoor unit is off. The outdoor unit has not been wired for power supply. Incorrect wiring for the transmission wiring and / or FORCED OFF wiring. The transmission wiring is cut.
No display	 The power on the indoor unit is off. The indoor unit has not been wired for power supply. Incorrect wiring for the remote controller wiring, the transmission wiring and / or the FORCED OFF wiring. The remote controller wiring is cut.

• If "U3" is lit up, the malfunction code shows the test operation has not been performed yet.

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