

TOSHIBA

Installation Manual

MODEL NAME

For commercial use

Leak Detector Interface
TCB-LDA1UPE



Scan QR CODE to access installation and owner's manual on website.
<https://www.toshiba-carrier.co.th/manuals/default.aspx>
Manual are available in EN/FR/DE/IT/ES/PT/NL/EL/RU/TR/SV/FI/
DA/NO/PL/BG/RO/ET/LV/HR/CS/SK/SL/HU.

Please read this Installation Manual carefully before installing this unit.

- This Manual describes the installation method of the Leak Detector Interface.
- We do not take any responsibility on the local design.

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Definition of Protective Gear

- When this product is to be transported, installed, maintained, repaired or removed, wear protective gloves and "Safety" work clothing.
- In addition to such normal protective gear, wear the protective gear described below when undertaking the special work detailed in the following table.
- Failure to wear the proper protective gear is dangerous because you will be more susceptible to injury, burns, electric shocks and other injuries.

Work undertaken	Protective gear to wear
All types of work	Protective gloves "Safety" working clothing
Electrical-related work	Gloves to provide protection from electric shock Insulating shoes Clothing to provide protection from electric shock
Work done at heights (50 cm or more)	Helmets for use in industry
Transportation of heavy objects	Shoes with additional protective toe cap
Repair	Gloves to provide protection for electricians

■ Warning indications on the Leak Detector Interface

Indication	Meanings of identification
 WARNING	The warnings indicate that if you fail to operate properly and follow the instructions in the warnings, it may cause serious personal injury or death.
 CAUTION	The caution Indicates that if you fail to operate properly and, it may cause serious personal injury or property damage. (*1)

*1: Property damage includes loss of buildings, family property, poultry, and pets.

Definition of Qualified Installer or Qualified Service Person

The unit must be installed, maintained, repaired and removed by a qualified installer or qualified service person. When any of these jobs is to be done, ask a qualified installer or qualified service person to do them. A qualified installer or qualified service person is an agent who has the qualifications and knowledge described in the following table.

Agent	Qualifications and knowledge which the agent must have
Qualified installer (*1)	- The qualified installer is a person who installs, maintains, relocates and removes the units made by Manufacturer. He or she has been trained to install, maintain, relocate and remove the units made by Manufacturer or, alternatively, he or she has been instructed in such operations by an individual or individuals who have been trained and is thus thoroughly acquainted with the knowledge related to these operations. - The qualified installer who is allowed to do the electrical work involved in installation, relocation and removal has the qualifications pertaining to this electrical work as stipulated by the local laws and regulations, and he or she is a person who has been trained in matters relating to electrical work on the units made by Manufacturer or, alternatively, he or she has been instructed in such matters by an individual or individuals who have been trained and is thus thoroughly acquainted with the knowledge related to this work. - The qualified installer who is allowed to do the refrigerant handling and piping work involved in installation, relocation and removal has the qualifications pertaining to this refrigerant handling and piping work as stipulated by the local laws and regulations, and he or she is a person who has been trained in matters relating to refrigerant handling and piping work on the units made by Manufacturer or, alternatively, he or she has been instructed in such matters by an individual or individuals who have been trained and is thus thoroughly acquainted with the knowledge related to this work. - The qualified installer who is allowed to work at heights has been trained in matters relating to working at heights with the units made by Manufacturer or, alternatively, he or she has been instructed in such matters by an individual or individuals who have been trained and is thus thoroughly acquainted with the knowledge related to this work.
Qualified service person (*1)	- The qualified service person is a person who installs, repairs, maintains, relocates and removes the units made by Manufacturer. He or she has been trained to install, repair, maintain, relocate and remove the units made by Manufacturer or, alternatively, he or she has been instructed in such operations by an individual or individuals who have been trained and is thus thoroughly acquainted with the knowledge related to these operations. - The qualified service person who is allowed to do the electrical work involved in installation, repair, relocation and removal has the qualifications pertaining to this electrical work as stipulated by the local laws and regulations, and he or she is a person who has been trained in matters relating to electrical work on the units made by Manufacturer or, alternatively, he or she has been instructed in such matters by an individual or individuals who have been trained and is thus thoroughly acquainted with the knowledge related to this work. - The qualified service person who is allowed to do the refrigerant handling and piping work involved in installation, repair, relocation and removal has the qualifications pertaining to this refrigerant handling and piping work as stipulated by the local laws and regulations, and he or she is a person who has been trained in matters relating to refrigerant handling and piping work on the units made by Manufacturer or, alternatively, he or she has been instructed in such matters by an individual or individuals who have been trained and is thus thoroughly acquainted with the knowledge related to this work. - The qualified service person who is allowed to work at heights has been trained in matters relating to working at heights with the units made by Manufacturer or, alternatively, he or she has been instructed in such matters by an individual or individuals who have been trained and is thus thoroughly acquainted with the knowledge related to this work.

1. Precautions

The manufacturer shall not assume any liability for the damage caused by not observing the description of this manual.

WARNING

General

- Do not modify the products. Do not also disassemble or modify the parts. It may cause a fire, electric shock or injury.
- Before starting to install this product, read through the Installation Manual carefully, and follow its instructions to install this product.
- Only a qualified installer or qualified service person is allowed to do installation work. Inappropriate installation may result in water leakage, electric shock or fire.
- Do not use any refrigerant different from the one specified for complement or replacement. Otherwise, abnormally high pressure may be generated in the refrigeration cycle, which may result in a failure or explosion of the product or an injury to your body.
- Before opening the electrical control box cover of the air handling unit or service panel of the outdoor unit, set the circuit breaker to the OFF position. Failure to set the circuit breaker to the OFF position may result in electric shocks through contact with the interior parts. Only a qualified installer (*1) or qualified service person (*1) is allowed to remove the electrical control box cover of the air handling unit or service panel of the outdoor unit and do the work required.
- Before carrying out the installation, maintenance, repair or removal work, set the circuit breaker to the OFF position. Otherwise, electric shocks may result.
- Place a "Work in progress" sign near the circuit breaker while the installation, maintenance, repair or removal work is being carried out. There is a danger of electric shocks if the circuit breaker is set to ON by mistake.
- Only a qualified installer (*1) or qualified service person (*1) is allowed to undertake work at heights using a stand of 50 cm or more.
- Wear protective gloves and safety work clothing during installation, servicing and removal.
- When work is performed at heights, use a ladder which complies with the ISO 14122 standard, and follow the procedure in the ladder's instructions. Also wear a helmet for use in industry as protective gear to undertake the work.
- Before working at heights, put a sign in place so that no-one will approach the work location, before proceeding with the work. Parts and other objects may fall from above, possibly injuring a person below. While carrying out the work, wear a helmet for protection from falling objects.
- This product must be transported in stable condition. If any part of the product is broken, contact the dealer.
- Do not move or repair any unit by yourself. There is high voltage inside the unit. You may get electric shock when removing the cover and main unit.
- This appliance is intended to be used by expert or trained users in shops, in light industry, or for commercial use by lay persons.

Installation

- Install the unit securely in a location where the base can sustain the weight adequately. If the strength is not enough, the unit may fall down resulting in injury.
- Follow the instructions in the Installation Manual to install the unit. Failure to follow these instructions may cause the product to fall down or topple over or give rise to noise, vibration, water leakage or other trouble.
- Carry out the specified installation work to guard against the possibility of high winds and earthquake.
If the unit is not installed appropriately, a unit may topple over or fall down, causing an accident.

Selection of installation location

- When the unit is installed in a small room, provide appropriate measures to ensure that the concentration of refrigerant leakage occur in the room does not exceed the critical level.
- Do not install in a location where flammable gas leaks are possible. If the gas leak and accumulate around the unit, it may ignite and cause a fire.
- To transport this product, wear shoes with additional protective toe caps.
- Do not place any combustion appliance in a place where it is directly exposed to the wind of unit, otherwise it may cause imperfect combustion.

Electrical wiring

- Only a qualified installer (*1) or qualified service person (*1) is allowed to carry out the electrical work of the unit. Under no circumstances must this work be done by an unqualified individual since failure to carry out the work properly may result in electric shocks and/or electrical leaks.
- To connect the electrical wires, repair the electrical parts or undertake other electrical jobs, wear gloves to provide protection for electricians, insulating shoes and clothing to provide protection from electric shocks. Failure to wear this protective gear may result in electric shocks.
- Use wiring that meets the specifications in the Installation Manual and the stipulations in the local regulations and laws. Use of wiring which does not meet the specifications may give rise to electric shocks, electrical leakage, smoking and/or a fire.
- Connect earth wire. (Grounding work) Incomplete grounding causes an electric shock.
- Do not connect earth wires to gas pipes, water pipes, and lightning conductor or telephone earth wires.
- After completing the repair or relocation work, check that the earth wires are connected properly.
- Install a circuit breaker that meets the specifications in the Installation Manual and the stipulations in the local regulations and laws.
- Install the circuit breaker where it can be easily accessed by the agent.
- When installing the circuit breaker outdoors, install one which is designed to be used outdoors.
- Under no circumstances the power wire must not be extended. Connection trouble in the places where the wire is extended may give rise to smoking and/or a fire.
- Electrical wiring work shall be conducted according to law and regulation in the community and Installation Manual. Failure to do so may result in electrocution or short circuit.
- Make sure that the circuit breaker is attached. If it is not, the electric shock may be caused.
- Do not use the fuse other than the correct capacity. Use of wire or copper wire may result in fire or malfunction.
- Ensure that the power is the rated voltage and use the circuit special for this product.

Test run

- Before operating the unit after having completed the work, check that the electrical control box cover of this product is closed, and set the circuit breaker to the ON position. You may receive an electric shock if the power is turned on without first conducting these checks.
- If there is any kind of trouble (such as a check display has appeared, smell of burning, abnormal sounds) has occurred in this product, do not touch this product yourself but set the circuit breaker to the OFF position, and contact a qualified service person. Take steps to ensure that the power will not be turned on (by marking "out of service" near the circuit breaker, for instance) until qualified service person arrives. Continuing to use the unit in the trouble status may cause mechanical problems to escalate or result in electric shocks or other trouble.

-
- After the work has finished, use an insulation tester set (500 VMΩ) to check the resistance is 1 MΩ or more between the charge section and the non-charge metal section (Earth section). If the resistance value is low, a disaster such as a leak or electric shock is caused at user's side.

Explanations given to user

- Upon completion of the installation work, tell the user where the circuit breaker is located. If the user does not know where the circuit breaker is, he or she will not be able to turn it off in the event that trouble has occurred in the unit.
- After the installation work, follow the Installation Manual to explain to the customer how to use and maintain the unit.

Relocation

- Only a qualified installer (*1) or qualified service person (*1) is allowed to relocate this product. It is dangerous for this product to be relocated by an unqualified individual since a fire, electric shocks, injury, water leakage, noise and/or vibration may result.

Repair • Maintenance

- Request the repair to the distributor that you made your purchase from.
- If there is a defect in the repair, the fire, electric shock may be caused.
- Turn off the circuit breaker of the entire system including this product when performing the repair or the maintenance.

(*1) Refer to the "Definition of Qualified Installer or Qualified Service Person".

■ Selection of installation place

Avoid installation in the following kinds of locations.

- This unit is recommended to be installed indoors. Install it in a location where there is no rain, wind, and direct sunlight.
- Do not install in locations where there is a machine generating high frequency. Failure to do so may cause a wrong operation or an abnormality.
- Do not install in locations with atmospheres with mist of oil (including machine oil) or dense vapor, or locations containing salt such as the coast area, or locations with acidic or alkaline atmospheres, or locations where sulfurizing gas are generated such as areas with hot springs. Use in inappropriate locations result in malfunctions.
- Do not put any vessel contains the water in the vicinity of this product.
If the water spills and enters into the inside of the unit, the electric insulation deteriorates and may result in an electric shock.
- Separate the television or radio from the unit or remote controller at least 1 m. Failure to do so may cause the disturbance of the image, or the noise.
- Do not use for special-purpose (Foods, animals and plants, precision machine, storage of the artwork etc.).
- Do not use in locations where there is anything that would be compromised by wetness. The mist or water dew drop may result in damage.
- Do not install in locations where organic solvents are being used.
- Do not install in locations near doors or windows where the unit may come into contact with high humidity outside air. Condensation may occur as a result.
- Do not install in locations where special sprays are used frequently. The location has an impact on the insulation of the equipment and may cause the ignition.
- In the above cases, additionally attach the heat insulator (grass wool etc.) to all positions of the unit, which come to contact with the high-humidity atmosphere.
 - * The guideline of the high-humidity condition is “dew-point temperature: 23°C or higher”, however, the decision should be made according to the trial operation conducted in each installation location.
- Install in locations that ensure the sufficient space needed for the service so that the equipment does not come to contact with the surface of the wall or the ceiling.
- Fix this product to the stable surface. Failure to do so may cause the vibration or the noise.
- Do not install this product to the locations where there is a temperature difference with the ambient temperature. Failure to do so may result in condensation, rust, or malfunction.
- Do not install in locations where iron or other metal dust is present. If iron or other metal dust adheres to or collects on the interior of this product, it may spontaneously combusted and start a fire.

Hereinafter referred to shown as below

Leak Detector : LD

Flow Selector unit : FS unit

Leak Detector Interface : Interface

Shut-off valve unit : SV unit

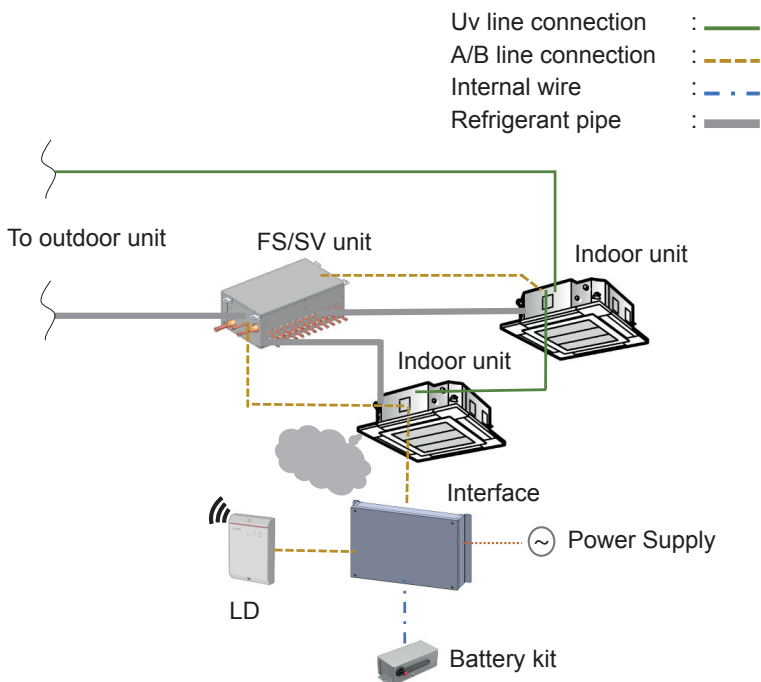
2. Overview

■ Example of the system configuration

Leak Detector Interface can connect to SHRM Advance system.

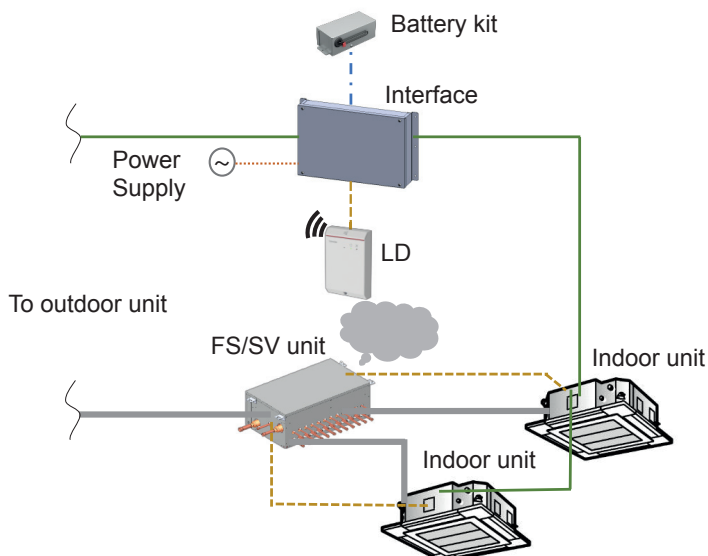
● A/B line connection

Refrigerant leak detection of indoor units (and their installation spaces)



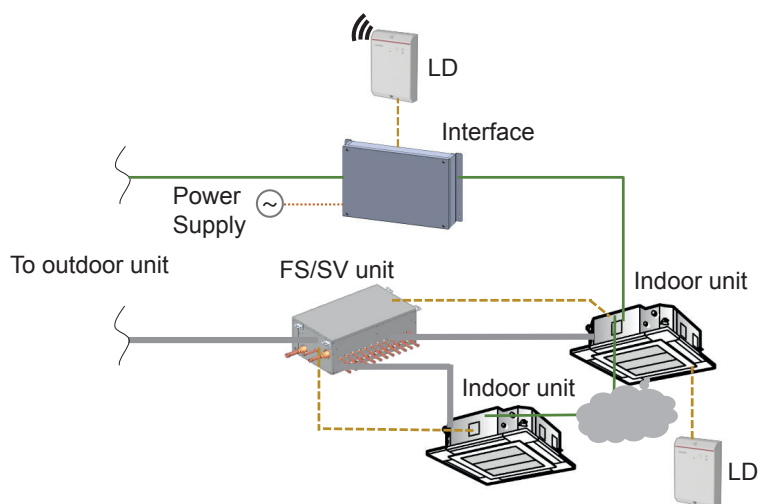
● Uv line connection type 1

Refrigerant leak detection of Flow Selector units (and their installation spaces)



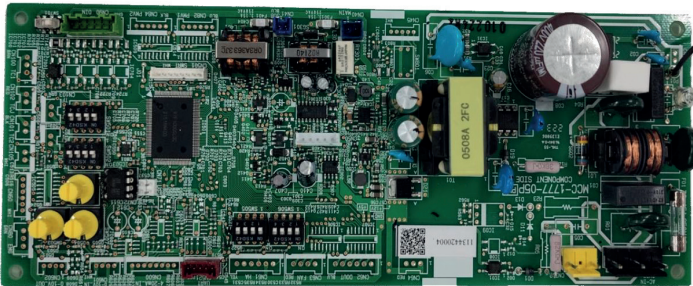
- **Uv line connection type 2**

When Leak Detector is to be used only as an alarm



■ Setting for each connection (A/B line connection / Uv line connection)

Set with SW506 switch on the control P.C. Board MCC-1777.



(Default position)
 Dip switches : all "OFF"

Rotary switches: all "1"

A/B line connection : Turn on SW506 bit1.

SW506

Uv line connection : Turn off SW506 bit1.

SW506

- Setting for Battery kit connection (connect or not)
 Set with SW506 switch on the control P.C. Board MCC-1777.

Battery kit connect : Turn off SW506 bit4

SW506

Battery kit does not connect : Turn off SW506 bit4

SW506

- Setting for Line (system) address
 Set with SW501 switch on the control P.C. Board MCC-1777.

When setting the address with the remote controller,
Turn off SW501 bit1

SW501

When setting the address with switches on P.C. Board,
Turn on SW501 bit1 or turn on SW501 bit1 and bit4.

Set Line (system) address according to the table below

SW501	SW507	Line address
bit4		
OFF	1~16	1~16
ON	1~12	17~28

SW501

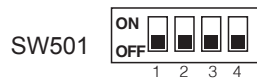
or

SW507

■ Setting for Indoor unit address

Set with SW501 and SW502 switch on the control P.C. Board MCC-1777.

When setting the address with the remote controller,
Turn off SW501 bit1



When setting the address with switches on P.C. Board,

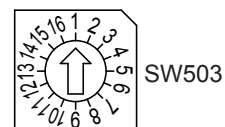
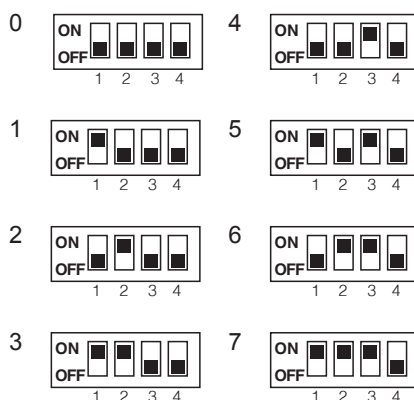
Turn on SW501 bit1 and set indoor unit address according to the table below

SW502	SW503	Address
0	1~16	1~16
1	1~16	17~32
2	1~16	33~48
3	1~16	49~64
4	1~16	65~80
5	1~16	81~96
6	1~16	97~112
7	1~16	113~128

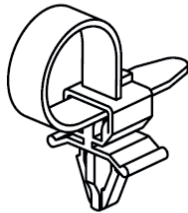
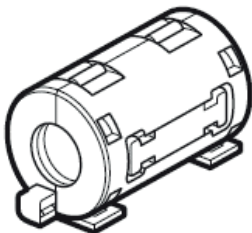
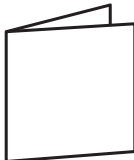
SW501



SW502



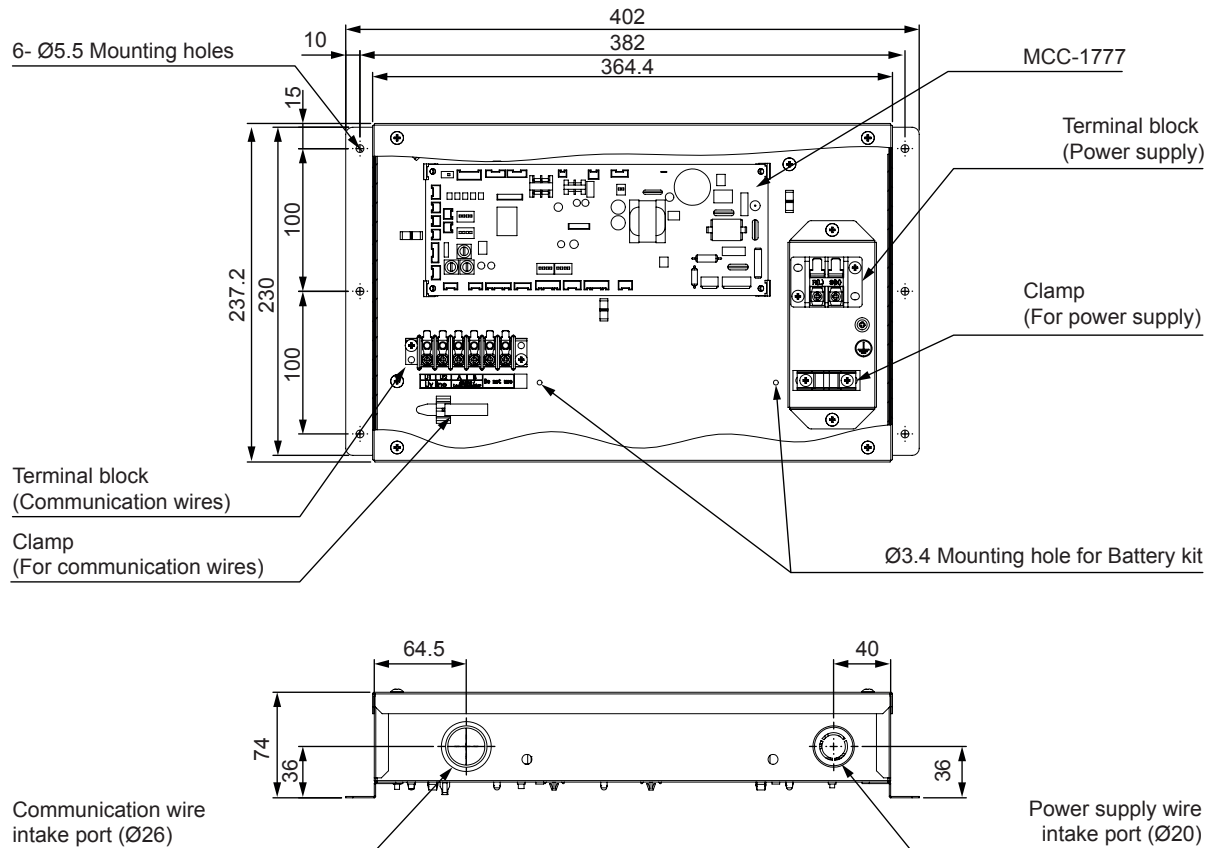
3. Accessories

No.	Part name	Image	Q'ty
1	Cable clamp		2
2	Clamp filter *Use this clamp filter if connect Battery kit		1
3	Binding band *For fixing clamp filter		1
4	Installation & Operation Manual (This manual)		1

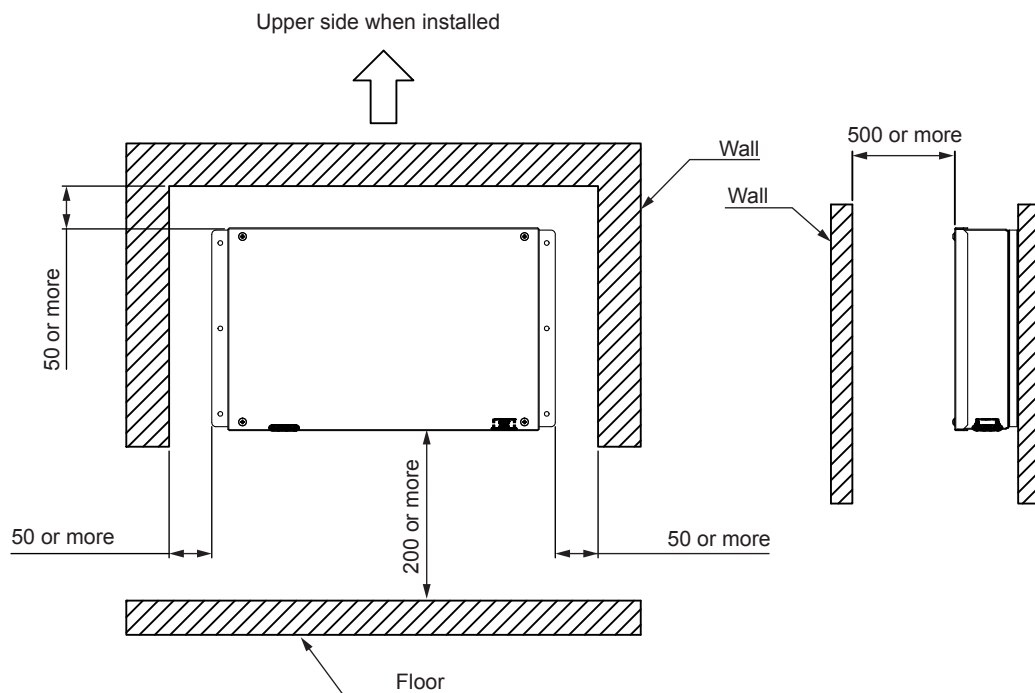
4. Installation

■ External dimensions and Installation space

Be sure to install the Interface into a suitable location (Indoors). Failure to do so may cause the frost formation, rust, or malfunction.



• Installation space and maintenance space



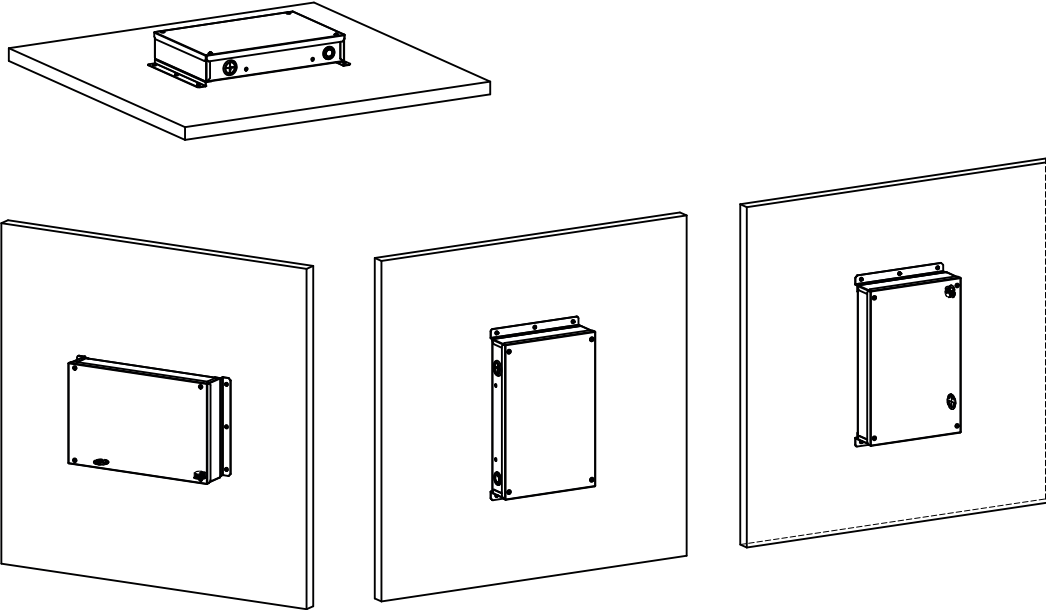
Fix Interface with four screws (locally procured).

Please use screw which is M4 and whose length is more than 12 mm.

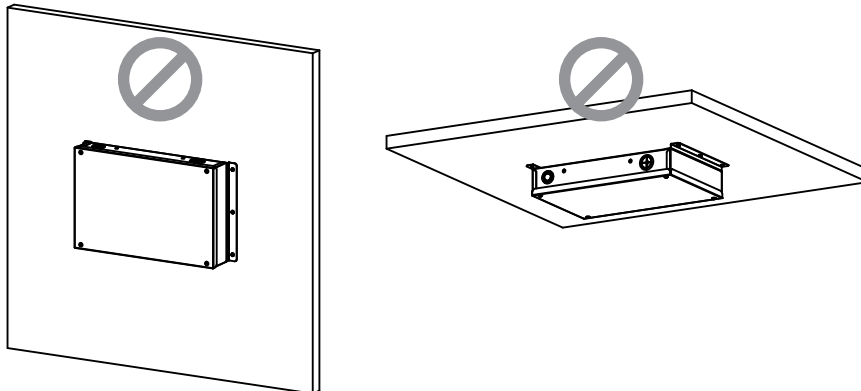
And select proper screw for material of installing wall.

There are four orientations of Surface/Wall Mount that Interface can be installed, these are shown below.

Good



No good



Wiring intake port must not be upward.

Interface body must not be downward.

If dust, water or etc. gets in body from intake port or gap of case and body, it may cause any malfunction.

REQUIREMENT

Do not install the unit in any of the following places.

- Humid or wet place
 - Dusty place
 - Place exposed to direct sunlight
 - Place where there is a TV set or radio within one meter
 - Place exposed to rain (outdoors, under eaves, etc.)
-

■ Installation Interface (Electrical wiring, DN setting)

WARNING

1. Using the specified wires, ensure to connect the wires, and fix wires securely so that the external tension to the wires do not affect the connecting part of the terminals. Incomplete connection or fixation may cause a fire, etc.
2. Be sure to connect earth wire (grounding work). Incomplete grounding cause an electric shock. Do not connect ground wires to gas pipes, water pipes, lightning rods or ground wires for telephone wires.
3. Appliance shall be installed in accordance with national wiring regulations. Capacity shortage of power circuit or incomplete installation may cause an electric shock or a fire.

REQUIREMENT

- For power supply wiring, strictly conform to the Local Regulation for each country.
- For wiring of power supply of the outdoor units, follow the Installation Manual of each outdoor unit.
- Perform the electric wiring so that it does not come in to contact with the high-temperature part of the pipe. The coating may melt in an accident.
- After connecting wires to the terminal blocks, provide a trap and fix the wires with the cord clamp.
- Run the refrigerant piping and control wiring line in the same line.
- Do not turn on the power of the indoor unit until vacuuming of the refrigerant pipes completes.

CAUTION

- If incorrect / incomplete wiring is carried out, it will cause an electrical fire or smoke.
- Be sure to install an earth leakage breaker that is not tripped by shock waves. If an earth leakage breaker is not installed, an electric shock may be caused.
- Be sure to use the cord clamps attached to the product.
- Do not damage or scratch the conductive core and inner insulator of power and inter-connecting wires when peeling them.
- Use the power cord and inter-connecting wire of specified thickness, type and protective devices required.
- Do not connect 220 - 240 V power to the terminal blocks (Uv (U1), Uv (U2), A, B, etc) for control wiring (otherwise the system will fail).

Power supply wire and communication wires specifications

Power supply wire and communication wires are procured locally. For the power supply specifications, follow to the table below. If capacity is little, it is dangerous because overheat or burnout may be caused. For specifications of the power capacity of the outdoor unit and the power supply wires, refer to the Installation Manual attached to the outdoor unit. Cable size must be calculated for site condition and correct glands fitted. All cables should be in conduit or armored cables correctly granded. This has to be done by the site installer.

Interface power supply

- For the power supply of this product, prepare the exclusive power supply separated from that of the outdoor unit.
- Arrange the power supply, earth leakage breaker and main switch of this product connected to the same outdoor unit so that they are commonly used.
- Power supply wire specification: Cable 3-Core, 2.5 mm², in conformity with Design 60245 IEC 57.

▼ Power supply

Power supply	220 - 240 V ~, 50 Hz	
Power supply switch / Earth leakage breaker or power supply wirings / fuse rating for this product should be selected by the accumulated total current values of this product.		
Power supply wiring (power supply and earth)	Below 50 m	2.5 mm ²
Current consumption	0.3 A	

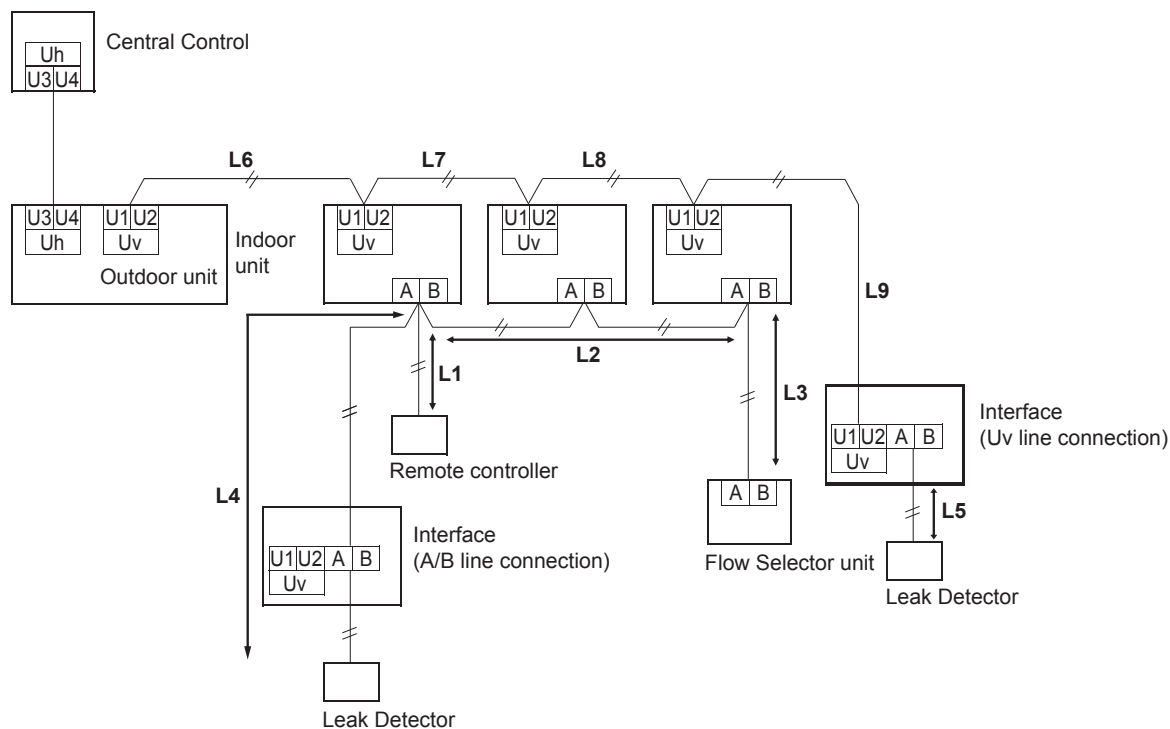
Control wiring, Central controller wiring

- 2-core with non polarity wires are used for the Control wiring between indoor and outdoor unit and Central controller wiring.
- To prevent noise trouble, use 2-core shield wire.

NOTE

When the Central Control is installed, an invalid value is output for the "Indoor capacity" data. DO NOT use it for purposes such as management monitoring or Power distribution.

Communication wiring



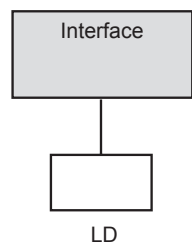
Uv line connection wiring

Wiring	2-core, non-polarity	
Type	Shield wire	
Size	Wire length is less than 500 m	0.5 mm ²
	Wire length is over 500 m and less than 1000 m	1.0 mm ² to 1.5 mm ²
Length	L6+L7+L8+L9	Up to 1000 m

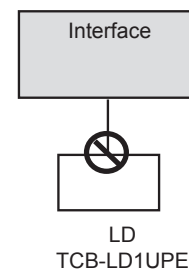
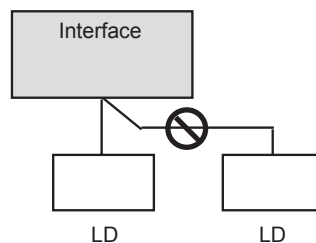
A/B line connection wiring

Wiring	2-core, non-polarity	
Type	Non shield wire	
Size	0.5 mm ² to 2.0 mm ²	
Length	L1+L2+L3+L4	Up to 300 m
	L4	Up to 100 m (from header indoor unit)
	L5	Up to 300 m

Correct wiring diagrams



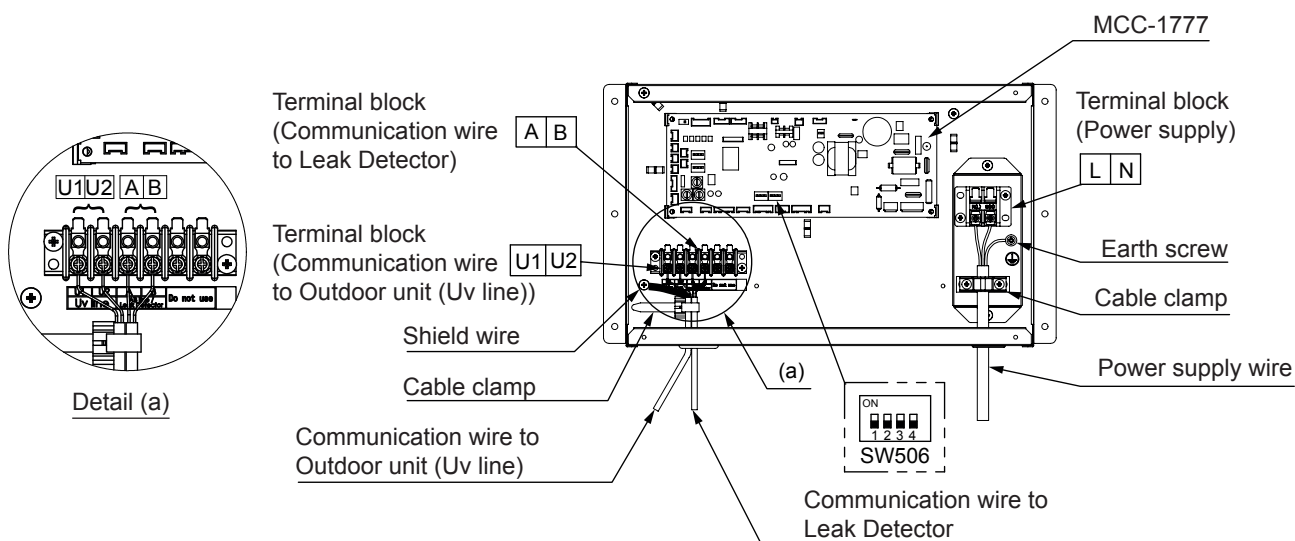
Wiring as shown below are prohibited



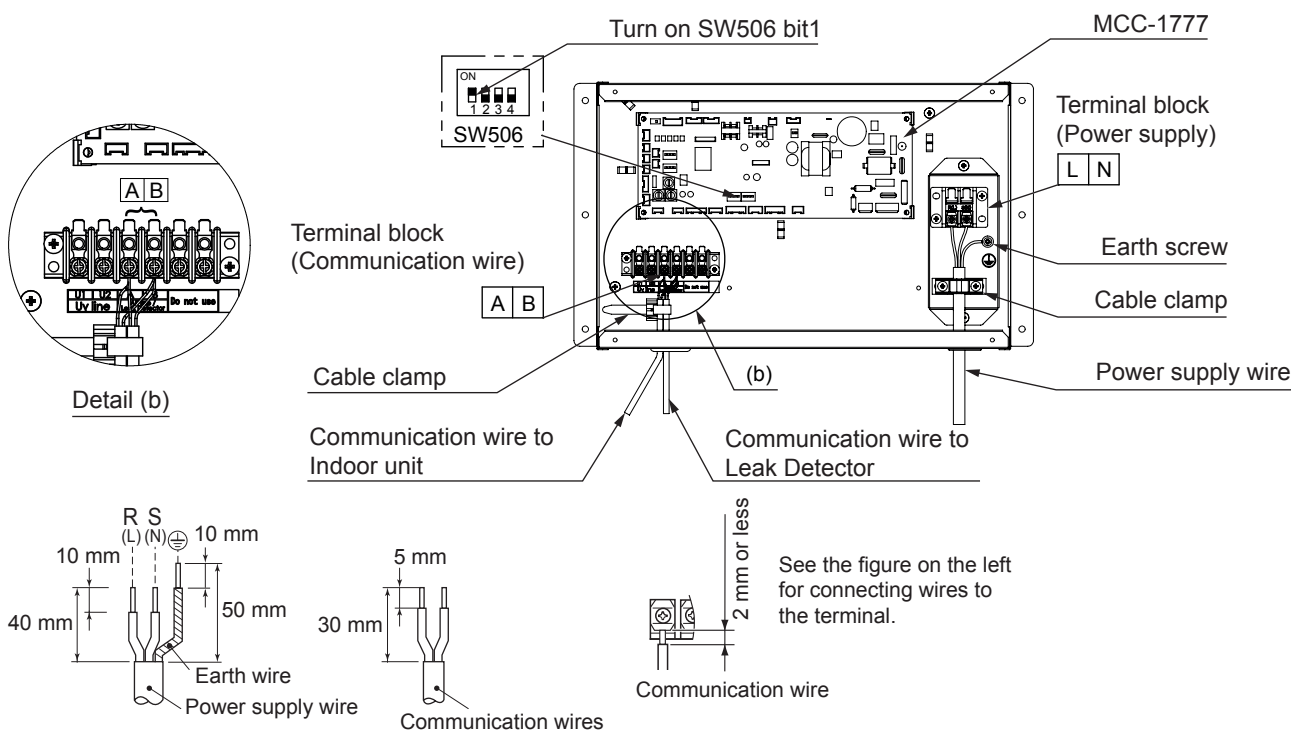
- Only one Leak Detector can connect to one Interface.
- Leak Detector model TCB-LD1UPE can not connect to Interface.

■ Electrical connection

- Electrical connection to Uv line connection.

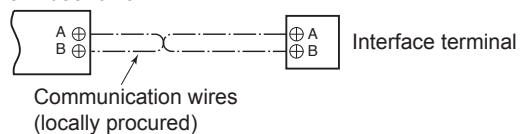


- Electrical connection to A/B line connection.



Communication wiring

Terminal block for remote controller wiring of indoor unit



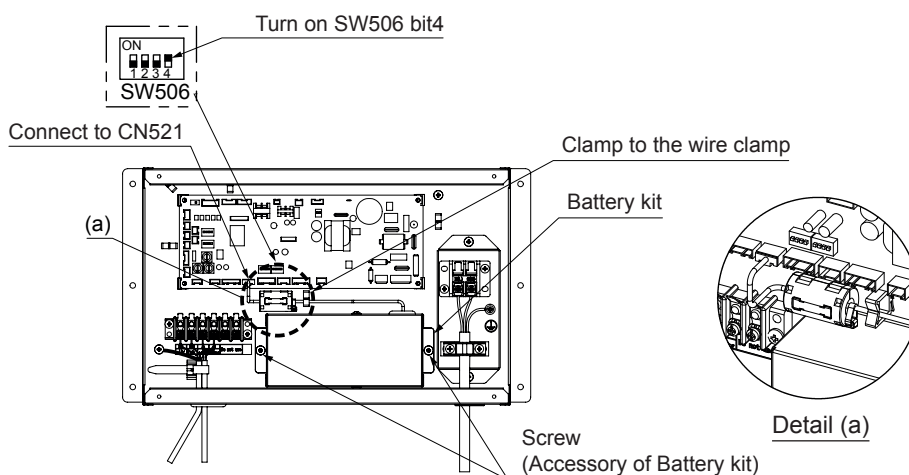
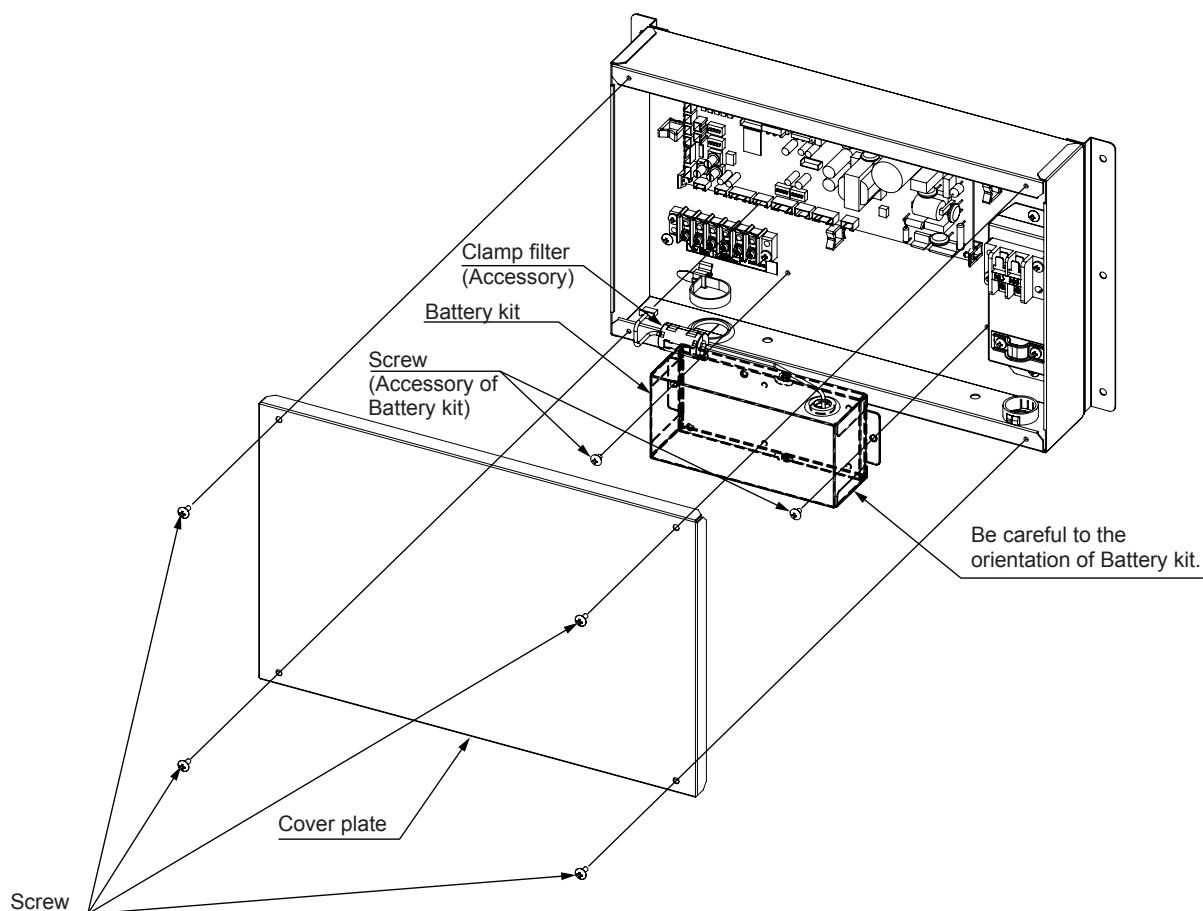
Since the Interface cable has no polarity that is OK if the indoor unit's terminal A and terminal B are inversely connected.

Terminal	Function
L, N	Power supply input
Uv	Connecting to Uv line connection
AB	Connecting to A/B line connection

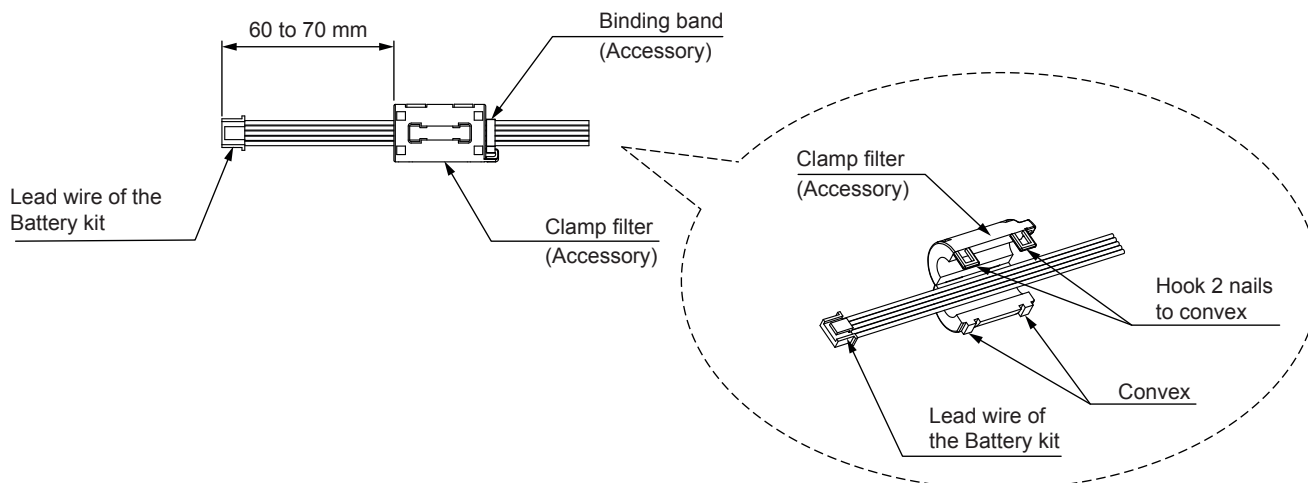
■ Installation of Battery kit (TCB-BT1UPE)

- Refer to the Installation Manual of the outdoor unit for details.
- Do not connect anything except TOSHIBA Battery kit.
- This kit includes a nickel-metal hydride battery (NiMH). For your safety, please read Instruction Manual in Battery kit carefully and handle it with care.
- Do not touch this kit for at least 1 minute after disconnecting power supply at servicing.

1. Loosen the cover mounting screws (4 positions) of the cover plate, and then remove that.
2. Install the Battery kit with the two screws (accessory of Battery kit) in the orientation shown in the figure.
When installing the Battery kit, be careful not to let the Battery kit contact the P.C. Board of Interface and do not pinch the wires with the Battery kit.
3. Attach clamp filter (Accessory of Interface) to connection wire of Battery kit.
4. Connect the connector of the Battery kit to CN521 (RED) on the P.C. Board of the Interface.
5. Turn on SW506 bit4 on the P.C. Board where the connector is connected.



For lead wire of the Battery kit, attach the Clamp filter (accessory) as the below picture.



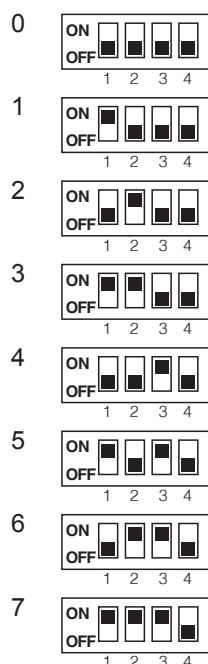
■ Interface P.C. Board function setting exchange table

When operating the SW, turn off the power before setting.

SW	Bit	Function Name	OFF (Default)	ON	Detail
SW501	1	Address setting method	Automatic	Manual	Set in combination with SW501 bit4, SW502 bit1 to bit3, SW503 and SW507
	2	No function	-	-	-
	3	No function	-	-	-
	4	Line (system) address setting	Refer to Line (system) address table		Set in combination with SW507
SW502	1	Indoor unit address setting	Refer to Indoor unit address table		Set in combination with SW503
	2				
	3				
	4	No function	-	-	-
SW503	-	Indoor unit address setting	Refer to Indoor unit address table		Set in combination with SW502
SW504	-	No function	-	-	-
SW505	1	No function	-	-	-
	2	No function	-	-	-
	3	No function	-	-	-
	4	No function	-	-	-
SW506	1	Uv line or A/B line connection setting	Uv line	A/B line	Switch connection to Uv line or connection to A/B line
	2	Announcement mode setting	None	Announcement	Only available in Uv line connection
	3	No function	-	-	-
	4	Battery kit usage setting	Not use	Activated	-
SW507	-	Line (system) address setting	Refer to Line (system) address table		Set in combination with SW501
SW701	1	No function	-	-	-
SW801	1	No function	-	-	-
	2	No function	-	-	-

*Do not turn ON the no functional switch. (Leave the switch OFF.)

SW502 settings



Indoor unit address table

SW502 bit1, 2, 3	SW503	Indoor unit address setting
0	1~16	1~16
1	1~16	17~32
2	1~16	33~48
3	1~16	49~64
4	1~16	65~80
5	1~16	81~96
6	1~16	97~112
7	1~16	113~128

Line (system) address table

SW501 bit4	SW507	Line (system) address setting
0	1~16	1~16
1	1~12	17~28

5. Test run

■ Before test run

Before turning on the power supply, carry out the following procedure.

- By using an insulation tester (500 VMΩ), check that resistance of 1 MΩ or more exists between the terminal block L to N and the earth (grounding).

If resistance of less than 1 MΩ is detected, do not turn on the power supply.

Please refer to Leak Detector Installation Manual for the test run method.

6. Trouble shooting

■ Confirmation and check

If a problem occurs with the Leak Detector Interface, the malfunction LED of Leak Detector will light. Check the following for what you see.

- Refrigerant sensor trouble.
- Refrigerant leak detection.
- Refrigerant sensor has reached product life.
- Leak Detector Interface - outdoor periodic communication trouble.
- Leak Detector Interface - Leak Detector periodic communication trouble.
- Duplicated indoor address.
- Battery kit has reached product life.
- When SW506 bit4 is on, the battery kit is not connected.

Check the Installation Manual of outdoor unit for details.



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