Simple MA Remote Controller — PAC-YT52CRA

*MAC-397IF-E required

Photo

Descriptions

New functions have been added to the CITY MULTI series that enable the setting of certain indoor unit functions (such as static pressure) from the remote controller. (For more detailed information, please contact your nearest sales office or distributor.)

Applicable Models

- MSZ-LN18/25/35/50/60VGW/V/B/R*
- MSZ-AP15/20VF*
- MSZ-AP25/35/42/50VG*
- MSZ-FH25/35/50VE2*
- MSZ-EF18/22/25/35/42/50VE3W/B/S*
- MSZ-SF15/20VA*
- MSZ-SF25/35/42/50VE3*
- MSZ-GF60/71VE2*
- MSZ-WN25/35VA*
- MSZ-DM25/35VA*
- MFZ-KJ25/35/50VE2*
- MLZ-KP25/35/50VF*

- P-series models
  (Except PSA-RP•KA)
- SLZ-M·FA series
- SEZ-M·DA series

※ Remote controller terminal block kit for PKA PAC-SH29TC-E

Specifications

|	Specifications
Product size	70 (W) × 120 (H) × 14.5 (D) mm (2-3/4 × 4-3/4 × 9/16 [in]) (not including the protruding part)
Net weight	0.1 kg (1/4 lb.)
Rated power supply voltage	12 VDC (supplied from indoor units)
Power consumption	0.3 W
Usage environment	Temperature 0 ~ 40ºC (32 ~ 104ºF) Humidity 30 ~ 90%RH (with no dew condensation)
Material	PC + ABS

Dimensions

Unit : mm

Unit:mm[in.]

70[2-3/4]   14.5[9/16]   120[4-23/32]   83.5[3-9/32]
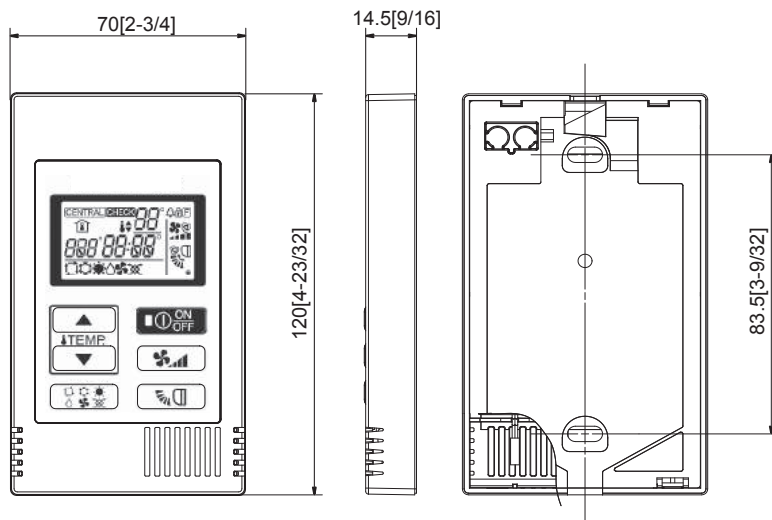
OPTIONAL PARTS

How to Use / How to Install

1 | Component names and supplied parts

The following parts are included in the box.

Top case *1   Bottom case *2

Parts name	Qty.	Appearance
Remote controller (top case)	1	Right figure *1
Remote controller (bottom case)	1	Right figure *2
Roundhead cross slot screws M4×30	2	*3
Wood screw 4.1×16 (for direct wall installation)	2	*3
Installation Manual (this manual)	1	
Instruction Book	1	
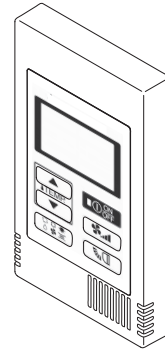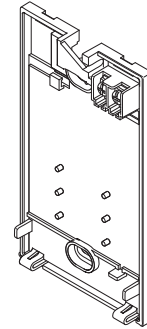
*3 ISO metric screw thread
*4 Remote controller cable is not included.

2 | Field-supplied parts/Required tools

(1) Field-supplied parts

The following parts are field-supplied parts.

Parts name	Qty.	Notes
Single switch box	1	Not required for direct wall installation
Thin metal conduit	Necessary	
Lock nut and bushing	Necessary	
Cable cover	Necessary	Required for routing remote controller cable along a wall
Putty	Reasonable	
Molly anchor	Necessary	
Remote controller cable (Use a 0.3 mm² (AWG22) 2-core sheathed cable.)	Necessary	

Switch box
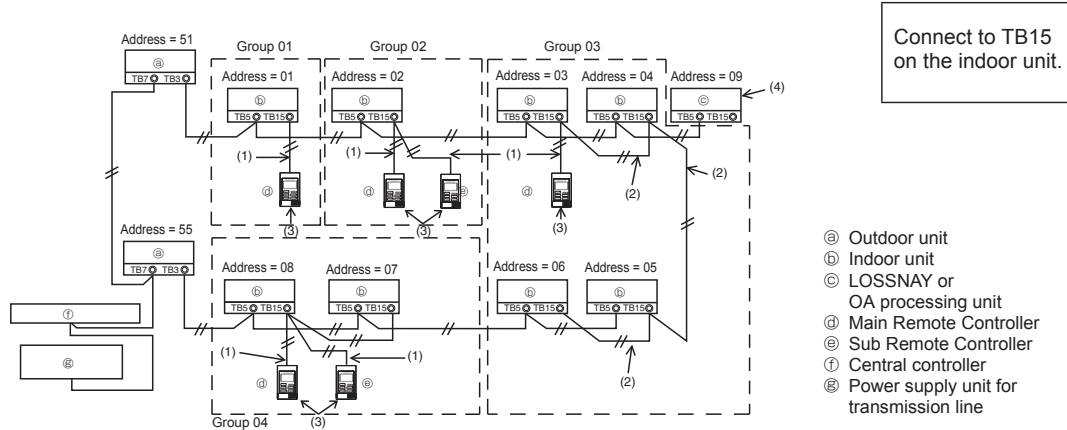

unit: mm (in)
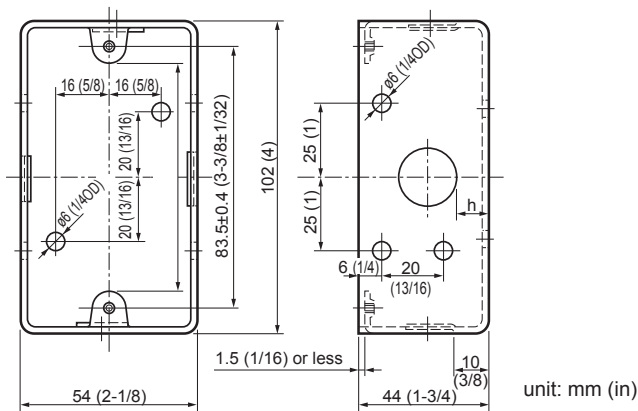
(2) Field-supplied tools
- Flat-tip screwdriver (Width: 3 - 5 mm (1/8 - 7/32 inch))
- Knife or Nipper
- Miscellaneous tools

3 | How To Wire Transmission Line

The wiring is different when the remote controller is connected to a CITY MULTI control system ("-A" type and later) and when it is connected to a Mr. SLIM air conditioner (A control type). The wiring also differs with the system configuration. Check the system used.

1. Connecting to CITY MULTI control system

The numbers (1) to (4) in the figure correspond to items (1) to (4) in the following description.

ⓐ Outdoor unit
ⓑ Indoor unit
ⓒ LOSSNAY or
   OA processing unit
ⓓ Main Remote Controller
ⓔ Sub Remote Controller
ⓕ Central controller
ⓖ Power supply unit for
   transmission line

(1) Wiring from the remote controller
   • Connect to the MA remote controller terminal block (TB15) on the indoor unit.
   • The terminal block has no polarity. Connect to the terminal block at the rear bottom of the remote controller.
(2) Operating in a group (Groups 03, and 04 above)
   • Interconnect the MA remote controller terminal block (TB15) of the indoor units you want to operate as a group, and connect the MA remote controller to that point.
   • When the remote controller is used in combination with the system controller as shown in the figure above, group setting at the system controller (central controller in the figure above) is necessary.
(3) Number of connectable remote controllers (groups 02 and 04)
   • A main remote controller and one sub remote controller, a total of two, can be connected to a group made up of indoor units.
   NOTE: When using this Simple MA remote controller in combination with other MA remote controllers, be sure to follow the compatibility rules below.

Indoor unit function	Main remote controller	Sub remote controller	Compatibility
Models applicable for AUTO (dual set point) mode	This Simple MA remote controller	This Simple MA remote controller	Compatible, and AUTO (dual set point) mode can be used depending on the indoor units to be connected.
	Other MA remote controllers	This Simple MA remote controller	Compatible, but AUTO (dual set point) mode cannot be used.
	This Simple MA remote controller	Other MA remote controllers	Incompatible
Models not applicable for AUTO (dual set point) mode	Combination with all of the above		Compatible

(4) To interlock to a LOSSNAY or OA processing unit, make the following settings using the remote controller. (For a description of how to set an interlock, see section ⑥ Ventilation Setting .)
   Set the LOSSNAY or OA processing unit address and the address of all the indoor units you want to interlock.
(5) Total length of remote controller wiring
   • The simple MA controller can be wired up to 200 m (656 ft).

⚠ CAUTION	Remote controllers cannot be wired together. Only one wire can be connected to the remote controller terminal block.	

NOTE: When interlocking the MA remote controller with a LOSSNAY or OA processing unit, always set the address of all the indoor units in the group and the address of the LOSSNAY or OA processing unit.
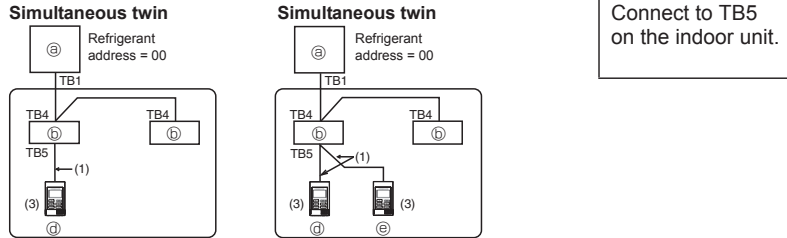
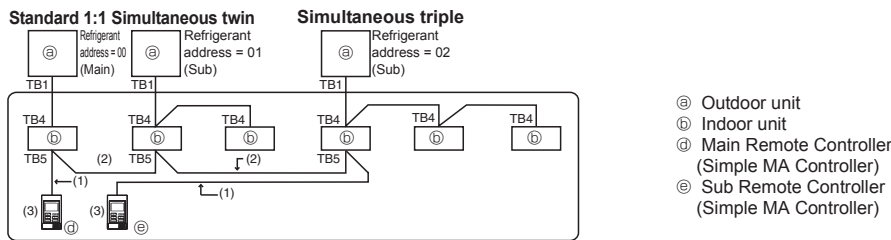## 2. Connecting to Mr. SLIM air conditioner

The remote controller wiring depends on the system configuration. Check the system configuration. Wire the remote controller as shown in the example below.

The numbers (1) to (3) in the figure correspond to items (1) to (3) in the following description.

[1] Connecting the remote controller for each refrigerant system (Standard 1:1, simultaneous twin, simultaneous triple, simultaneous four)


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Connect to TB5
on the indoor unit.
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[2] When grouping by different refrigerant systems

ⓐ Outdoor unit
ⓑ Indoor unit
ⓓ Main Remote Controller (Simple MA Controller)
ⓔ Sub Remote Controller (Simple MA Controller)

* Set the refrigerant address using the outdoor unit dip switches. (For more information, refer to the outdoor unit installation manual.)

* All the indoor units enclosed in ⬜ are controlled as one group.

(1) Wiring from remote controller
 • Connect to indoor unit TB5 (remote controller terminal block). (The terminal block has no polarity.)
 • For simultaneous multi type, when mixing various types of indoor units, always connect the remote controller to the indoor unit with the most functions (wind velocity, vane, louver, etc.).

(2) When grouping with difference refrigerant systems
 • Group using the remote controller wiring. Connect the remote controller to an arbitrary indoor unit of each refrigerant system you want to group.
 • When mixing different types of indoor units in the same group, always make the outdoor unit connecting the indoor unit with the most functions (wind velocity, vane, louver, etc.) the Main unit (refrigerant address = 00). Also, when the Main unit is the simultaneous multi type, always satisfy the conditions of (1) above.
 • The Simple MA Remote Controller can control up to 16 refrigerant systems as one group.

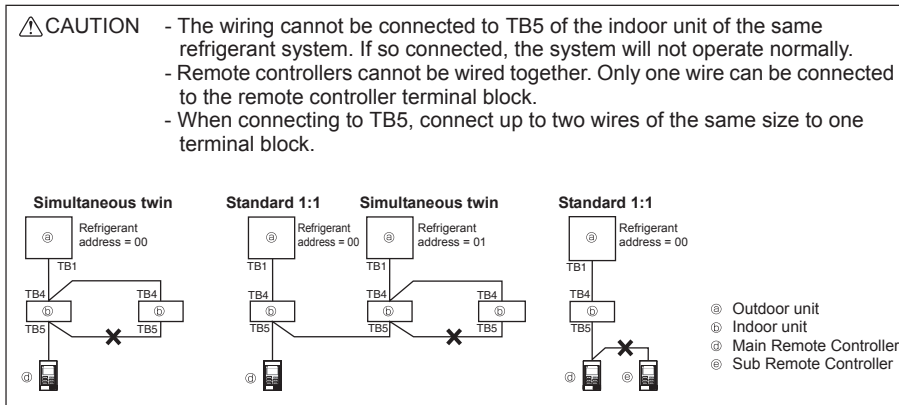(3) Up to two remote controllers can be connected to one group
 • When two remote controllers are connected to one group, always set the Main remote controller and Sub remote controller.
 • When only one remote controller is connected to one group, set it as the Main controller. When two remote controllers are connected to one group, set the Main remote controller and Sub remote controller. (For a description of how to set the Main/Sub switch, see step 5 in section ④ How To Install .)

NOTE: When using this Simple MA remote controller in combination with other MA remote controllers, be sure to follow the compatibility rules below.

Indoor unit function	Main remote controller	Sub remote controller	Compatibility
Models applicable for AUTO (dual set point) mode	This Simple MA remote controller	This Simple MA remote controller	Compatible, and AUTO (dual set point) mode can be used depending on the indoor units to be connected.
	Other MA remote controllers	This Simple MA remote controller	Compatible, but AUTO (dual set point) mode cannot be used.
	This Simple MA remote controller	Other MA remote controllers	Incompatible
Models not applicable for AUTO (dual set point) mode	Combination with all of the above		Compatible

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(4) Total length of remote controller wiring
- The Simple MA Remote Controller can be wired up to 500 m (1640 ft).

⚠CAUTION - The wiring cannot be connected to TB5 of the indoor unit of the same refrigerant system. If so connected, the system will not operate normally.
- Remote controllers cannot be wired together. Only one wire can be connected to the remote controller terminal block.
- When connecting to TB5, connect up to two wires of the same size to one terminal block.

Simultaneous twin	Standard 1:1	Simultaneous twin	Standard 1:1	
				ⓐ Outdoor unit
				ⓑ Indoor unit
				ⓓ Main Remote Controller
				ⓔ Sub Remote Controller

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4 | How To Install

This remote controller is for the wall installation. It can be installed either in the switch box or directly on the wall. When performing direct wall installation, wires can be thread through either back or top of the remote controller.

(1) Selecting an installation site

Install the remote controller (switch box) on the site where the following conditions are met.

(a) A flat surface

(b) A place where the remote controller can measure the accurate indoor temperature
Sensors to monitor indoor temperature are on the indoor unit and on the remote controller. When the room temperature is monitored with the sensor on the remote controller, the built-in sensor on the Main remote controller monitors the room temperature. When using the sensor on the remote controller, follow the instructions below.

- To monitor the accurate indoor temperature, install the remote controller away from direct sunlight, heat sources, and the supply air outlet of the air conditioner.
- Install the remote controller in a location that allows the sensor to measure the representative room temperature.
- Install the remote controller where no wires are routed around the temperature sensor on the controller. (If wires are routed, the sensor cannot measure accurate indoor temperature.)

Important

Do not install the controller in a place where the difference between the remote controller surface temperature and the actual room temperature will be great.
If the temperature difference is too high, room temperature may not be adequately controlled.

To avoid deformation and malfunction, do not install the remote controller in direct sunlight or where the ambient temperature may exceed 40ºC (104ºF) or drop below 0ºC (32ºF).

Do not install the remote controller directly onto electrically conductive objects such as metal plate that has not been painted.
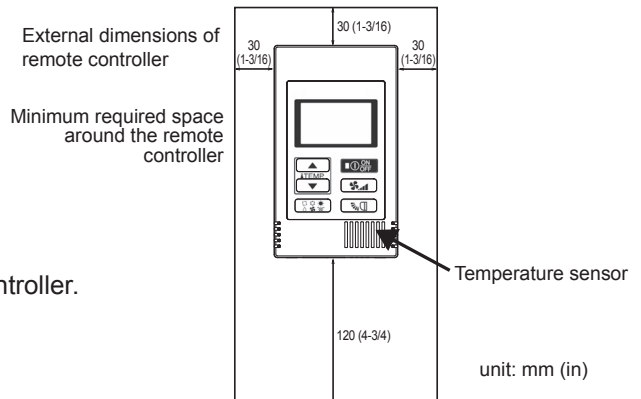
To reduce the risk of malfunctions, do not install the controller in a place where water or oil may come into contact with the controller, or in a condensing or corrosive environments.

(2) Installation space

Leave a space around the remote controller as shown in the figure shown below, regardless of whether the controller is installed in the switch box or directly on the wall. Removing the remote controller will not be easy with insufficient space.
Also, leave an operating space in front of the remote controller.

External dimensions of remote controller

Minimum required space around the remote controller

30 (1-3/16)
30 (1-3/16)
30 (1-3/16)

Temperature sensor

120 (4-3/4)

unit: mm (in)

OPTIONAL PARTS

(3) Installation work

Controller can be installed either in the switch box or directly on the wall. Perform the installation properly according to the installation method.

① **Drill a hole in the wall.**
  ■ Installation using a switch box
   • Drill a hole in the wall, and install the switch box on the wall.
   • Connect the switch box to the conduit tube.
  ■ Direct wall installation
   • Drill a hole in the wall, and thread the cable through it.

② **Seal the cable access hole with putty**
  ■ Installation using a switch box
   • Seal the remote controller cable access hole at the connection of switch box and conduit tube with putty.
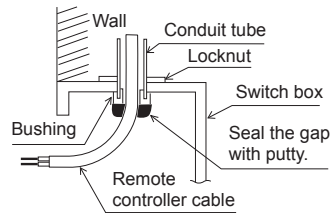
> To reduce the risk of electric shock, malfunctions, or fire, seal the gap between the cables and cable access holes with putty.

③ **Prepare the bottom case of the remote controller.**

Top case   Bottom case
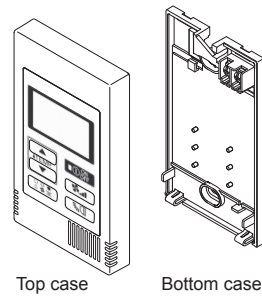
④ **Connect the remote controller cable to the terminal block on the bottom case.**

Peel off the remote controller cable sheath as shown below to connect to the terminal block properly. Secure the remote controller cable so that the peeled part of the cable will fit into the case.

Sheath

16 (21/32)

6 (1/4)

Unit: mm (in)

Connect the cable. (non-polarized)

Insert the sheathed part of the cable inside the case, and then secure the cable.

2-core wire must not be seen on the back.
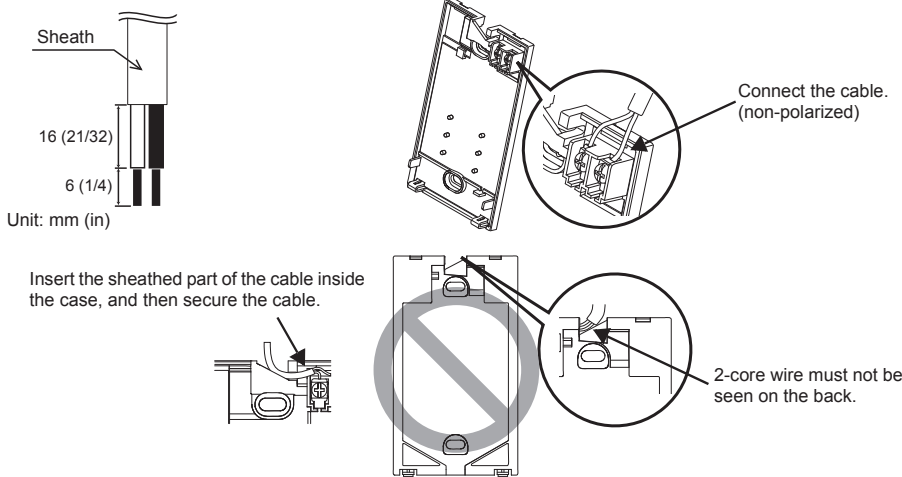
■ Direct wall installation
  • Seal the hole through which the cable is threaded with putty.

> To reduce the risk of electric shock, shorting, or malfunctions, keep wire pieces and sheath shavings out of the terminal block.

Important

> Do not use solderless terminals to connect cables to the terminal block.
> Solderless terminals may come in contact with the circuit board and cause malfunctions or damage the controller cover.
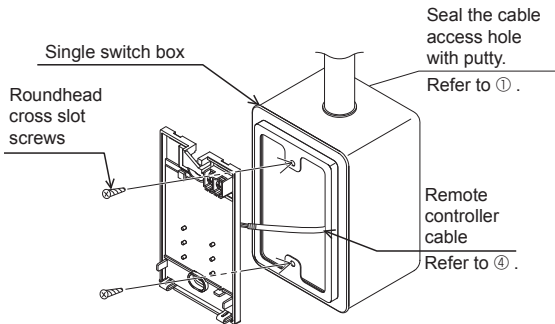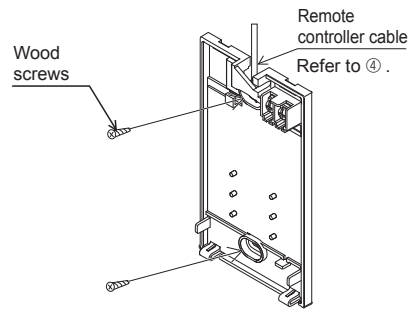
Remote controller cable

Seal the gap with putty.

Route the cable behind the remote controller.

Wall
Conduit tube
Locknut
Switch box
Seal the gap with putty.
Bushing
Remote controller cable
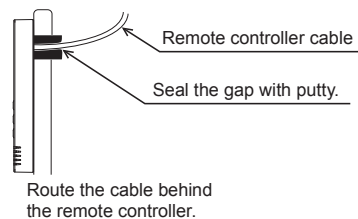
OPTIONAL PARTS

⑤ **Install the bottom case.**

Be sure to secure two places of the bottom case.

■ Installation using a switch box

Single switch box

Roundhead
cross slot
screws

Seal the cable
access hole
with putty.
Refer to ① .

Remote
controller
cable
Refer to ④ .

■ Direct wall installation

Wood
screws

Remote
controller cable
Refer to ④ .

Important

| To avoid deformation and damage to the bottom case, do not overtighten the screws. |
| To avoid damage to the bottom case, do not make holes on it. |

⑥ **Cut out the cable access hole.**

■ Direct wall installation (when running the cable along the wall)
  • Cut out the thin-wall part on the cover (the shaded area in the right figure) with a knife or a nipper.
  • Thread the cable from the groove behind the bottom case through this access hole.
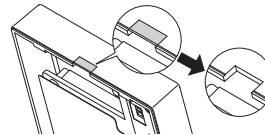
⑦ **Set the dip switches on the top case.**

When using two remote controllers in one group, set the dip switches.
When using two remote controllers in one group, specify the main and sub remote controllers using dip switch No. 1 shown below.
  • When connecting only one remote controller to one group, it is always the main remote controller. When connecting two remote controllers to one group, set one remote controller as the main remote controller and the other as the sub remote controller.
  • The factory setting is "Main".

Setting the dip switches

There are switches on the back of the top case. Remote controller Main/Sub and other function settings are performed using these switches. Ordinarily, only change the Main/Sub setting of SW1. (The factory settings are ON for SW1, 2, and 3 and OFF for SW4.)

SW No.	SW contents Main	ON	OFF	Comment
1	Remote controller Main/Sub setting	Main	Sub	Set one of the two remote controllers at one group to "ON".
2	Temperature display units setting	Celsius	Fahrenheit	When the temperature is displayed in [Fahrenheit], set to "OFF".
3	Cooling/heating display in AUTO mode	Yes	No	When you do not want to display "Cooling" and "Heating" in the AUTO mode, set to "OFF".
4	Indoor temperature display	Yes	No	When you want to display the indoor temperature, set to "ON".

ON

1 2 3 4
OFF
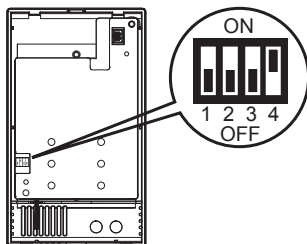
⑧ **Connect the connector to the top case.**

Connect the connector on the bottom case to the socket on the top case.

Connect the connector.
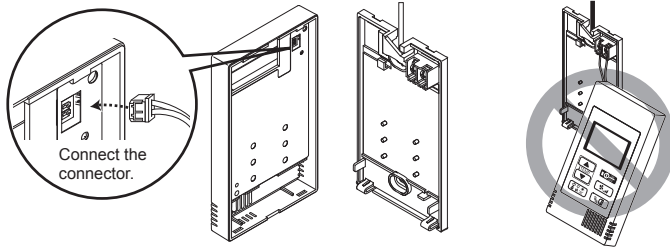
Important

| To prevent malfunctions, do not remove the protective sheet or the circuit board from the top case. | To prevent cable breakage and malfunctions, do not hang the top controller casing hang by the cable as shown in the figure above. |

⑨ **Insert the wires into the clamp.**

Important

Hold the wires in place with the clamp to prevent undue force from being applied to the terminal block and causing cable breakage.

Clamp

Insert the wires.
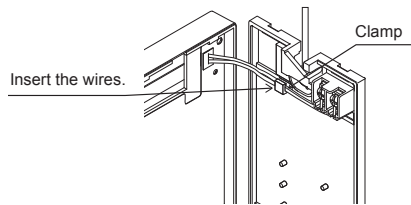
⑩ **Install the top case on the bottom case.**

Two mounting tabs are at the top of the top case.
Hook those two tabs onto the bottom case, and click the top case into place. Check that the case is securely installed and not lifted.

Wall

Important

When attaching the top casing to the bottom casing, push it until it they click into place. If they are not properly locked into place, they may fall, causing personal injury, controller damage, or malfunctions.

Should not be lifted.
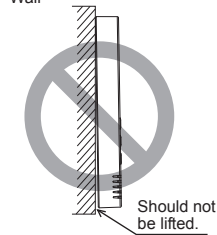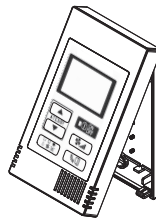
■ Direct wall installation (when running the cable along the wall)
   • Thread the cable through the access hole at the top of the remote controller.
   • Seal the cut-out part of the cover with putty.
   • Use a cable cover.

Use a cable cover.

Seal the gap with putty.
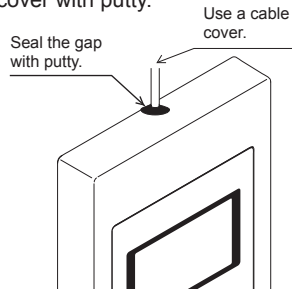
Thread the cable through the top of the remote controller.

• **Uninstalling the top case**

① Uninstalling the top case

Insert a flat-tip screwdriver with a blade width of 3-5 mm (1/8-7/32 inch) into the latches at the bottom of the remote controller and lift the latches. Then, pull up the top case.
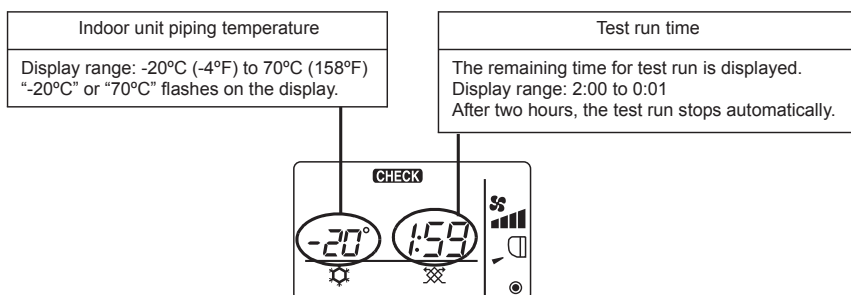
Important

To prevent damage to the controller casing, do not force the flat-tip screwdriver to turn with its tip inserted in the slot.

Do not insert the flat-tip screwdriver too far. Doing so will damage the circuit board.

OPTIONAL PARTS
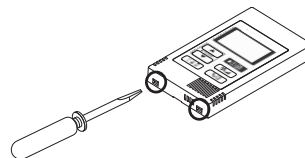
5 | Test Run

1. Before making a test run, refer to the "Test Run" section of the indoor unit installation manual.

2. When the ⏻ON/OFF button and ⮝TEMP.▲ button are pressed simultaneously for 2 seconds or longer, test run is performed.

3. Stop the test run by pressing the ⏻ON/OFF button.

4. If trouble occurred during the test run, refer to the "Test Run" section of the indoor unit installation manual.

Indoor unit piping temperature
Display range: -20°C (-4°F) to 70°C (158°F) "-20°C" or "70°C" flashes on the display.

| Test run time |
|---|
| The remaining time for test run is displayed. Display range: 2:00 to 0:01 After two hours, the test run stops automatically. |

6 | Ventilation Setting

> Make this setting only when interlocked operation with LOSSNAY or OA processing unit is necessary with CITY MULTI models.
> (This setting cannot be made with Mr. SLIM air conditioners.)

Perform this operation when you want to register the LOSSNAY or OA processing unit, confirm the registered units, or delete the registered units controlled by the remote controller.

The following uses indoor unit address 05 and LOSSNAY or OA processing unit address 30 as an example to describe the setting procedure.

[Setting Procedure]

① Stop the air conditioner using the remote controller ⏻ON/OFF button.

② Press and hold down the 🌀 and ⮟TEMP.▼ buttons at the same time for two seconds. The display shown below appears. The remote controller confirms the registered LOSSNAY or OA processing unit addresses of the currently connected indoor units.
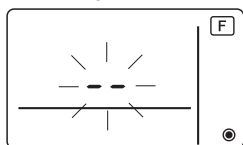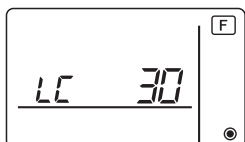

③ Registration confirmation result

- The indoor unit address and registered LOSSNAY or OA processing unit address are displayed alternately.

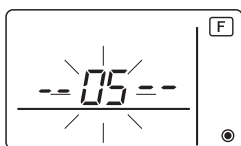<Indoor unit address and indoor unit display> <LOSSNAY address display and LOSSNAY display>

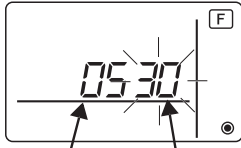- When LOSSNAY or OA processing unit are not registered

④ If registration is unnecessary, end registration by pressing and holding down the 🌀 and ⮟TEMP.▼ buttons at the same time for two seconds.
If a new LOSSNAY or OA processing unit must be registered, go to step **1. Registration procedure**.
If you want to confirm another LOSSNAY or OA processing unit, go to step **2. Confirmation procedure**. To delete a registered LOSSNAY or OA processing unit, go to step **3. Deletion procedure**.

OPTIONAL PARTS

<1. Registration procedure>

⑤ Set the address of the indoor unit to be interlocked with the LOSSNAY unit using the [TEMP. ▲] and [TEMP. ▼] buttons. (01 to 50)

⑥ After setting, press the [🌀] button and set the Lossnay address you want to register by operating the [TEMP. ▲] and [TEMP. ▼] buttons. (01~50)

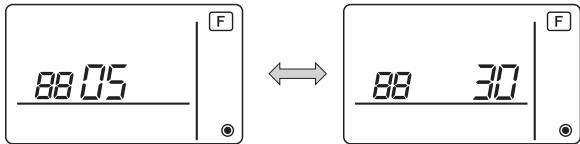Indoor unit address   LOSSNAY or OA processing unit address

⑦ Press the [ON/OFF] button, and register the set indoor unit address and LOSSNAY address.
  - Registration end display
    The indoor unit address and "IC" and LOSSNAY address and "LC" are alternately displayed.
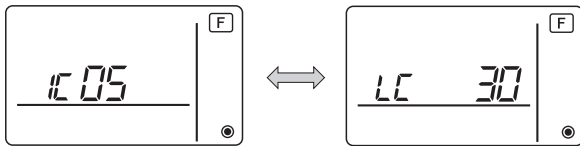
  - Registration error display
    If the address is not registered correctly, the indoor unit address and [88], and the registered LOSSNAY (or OA processing unit address) and [88] are alternately displayed.

    Cannot be registered because the registered indoor unit or LOSSNAY or OA processing unit does not exist.
   Cannot be registered because another LOSSNAY or OA processing unit was registered at the registered indoor unit.

<2. Confirmation procedure>

⑧ Set the address of the indoor unit connected by the remote controller whose LOSSNAY or OA processing unit you want to confirm using the [TEMP. ▲] and [TEMP. ▼] buttons. (01 to 50)

⑨ Press the [ON/OFF] button and [🌀] button simultaneously for 2 seconds, and check the LOSSNAY address registered at the set indoor unit address.
  - Confirmation end display (When LOSSNAY is connected.)
    The indoor unit address and "IC" and registered LOSSNAY address and "LC" are alternately displayed.
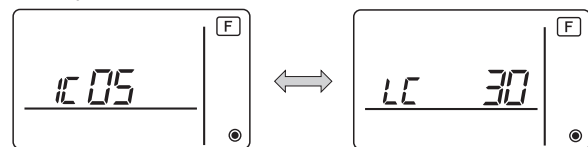
  - Confirmation end display (When LOSSNAY or OA processing unit is not connected.)
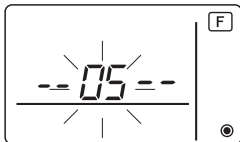
  - Registered indoor unit address does not exist.

MITSUBISHI ELECTRIC CORPORATION

<3. Deletion procedure>

Use this procedure when you want to delete registration of indoor units connected by the remote controller and LOSSNAY or OA processing unit.

⑩ Confirm (see **2. Confirmation procedure**) the LOSSNAY or OA processing unit you want to delete and display the indoor units and LOSSNAY or OA processing unit confirmation results.

⑪ Press the TEMP. ▲ and TEMP. ▼ buttons simultaneously for 2 seconds, and delete registration of the LOSSNAY or OA processing unit address registered at the set indoor unit.

- Deletion end display

Indoor unit address and "– –" and registered LOSSNAY or OA processing unit address and "– –" are alternately displayed.

- Deletion error display

When deletion was not performed properly.

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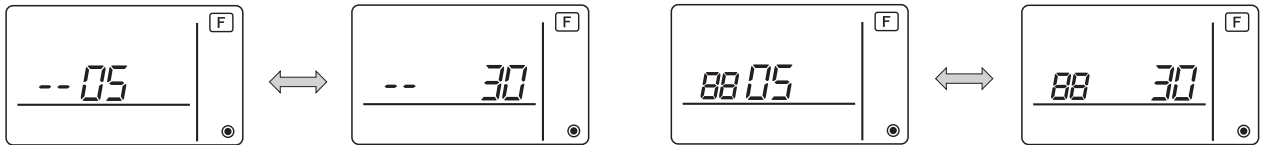
7 | Function Selection for Mr. SLIM

Make the following settings for Mr. SLIM if necessary.
(This setting cannot be made with CITY MULTI Control System. To make CITY MULTI indoor unit settings from the remote controller, refer to section 8 | Function Selection for CITY MULTI .)

Set the functions of each indoor unit from the remote controller, as required. The functions of each indoor unit can be selected only from the remote controller.
Set the functions by selecting the necessary items from Table 1.

Table1. Function selection contents
(For a detailed description of the factory settings and mode of each indoor unit, refer to the indoor unit installation manual.)

Mode No.	Mode	Settings	Setting No.	Check	Unit numbers
01	Automatic recovery after power failure	Disable	1		Set "00" for the Unit number. These settings apply to all the connected indoor units.
		Enable (Four minutes of standby time is required after the restoration of power.)	2		
02	Thermistor selection (Indoor temperature detection)	Average temperature reading of the indoor units in operation	1		
		Thermistor on the indoor unit to which the remote controller is connected (fixed)	2		
		Built-in sensor on the remote controller	3		
03	LOSSNAY connection	Not connected	1		
		Connected (without outdoor air intake by the indoor units)	2		
		Connected (with outdoor air intake by the indoor units)	3		
04	Power voltage	240 V	1		
		220 V, 230 V	2		
07	Filter sign	100 hours	1		Set "01" to "04" or "AL" for the Unit number. These settings apply to each indoor unit.
		2500 hours	2		
		Not displayed	3		• If "01" ("02", "03", "04") is set for the Unit number, the settings apply only to the specified indoor unit regardless of the number of connected indoor units (one through four units).
08	Fan speed	Silent mode (or standard)	1		
		Standard (or High ceiling 1)	2		
		High ceiling (or High ceiling 2)	3		
09	No. of air outlets	4 directional	1		
		3 directional	2		
		2 directional	3		• If "AL" is set for the Unit number, the settings apply to all the connected indoor units regardless of the number of connected indoor units (one through four units).
10	Installed options (High performance filter)	No	1		
		Yes	2		
11	Vane setting	No vanes (or the vane setting No.3 is effective.)	1		
		Equipped with vanes (The vane setting No.1 is effective.)	2		
		Equipped with vanes (The vane setting No.2 is effective.)	3		

* Static pressure setting can be made by using Mode 08 in combination with Mode 10 depending on the indoor unit model. Refer to the Indoor unit Installation Manual for details.

* For mode numbers other than listed above, refer to the indoor unit installation manual.

NOTE: When the indoor unit functions were changed using the function selection after installation is complete, always indicate the set contents by entering check marks or other marks in the appropriate check field of Table 1.

[Function selection flow]
First grasp the function selection flow. The following describes setting of "Thermistor selection" of Table 1 as an example.
(For the actual setting procedure, see [Setting procedure] ① to ⑩ .)
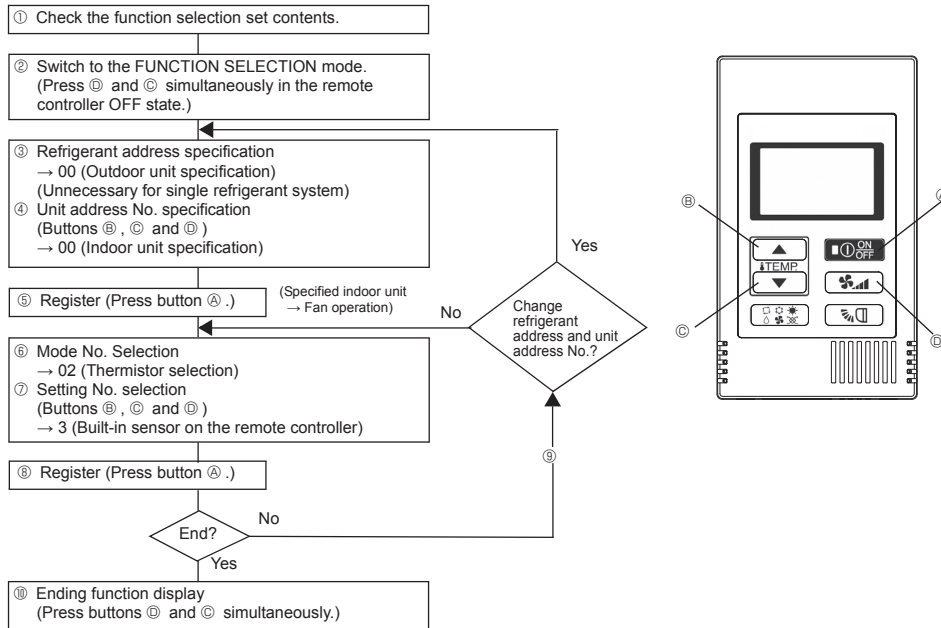
[Setting procedure] (Set only when change is necessary.)

① Check the set contents of each mode. When the set contents of a mode were changed by function selection, the functions of that mode also change.
Check the set contents as described in steps ② to ⑦ and change the setting based on the entries in the Table 1 check field. For the factory settings, refer to the indoor unit installation manual.

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② Set the remote controller to Off.
Press and hold down the ⓓ [🌀] and the ⓒ [↕TEMP. ▼] buttons at the same time for two seconds or longer.
" F (FUNCTION)" blinks for a while, then the remote controller display changes to the display shown below.

Refrigerant address display
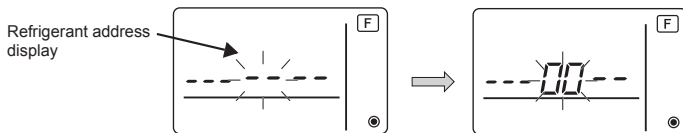
③ Set the outdoor unit refrigerant address No.
When the ⓑ [↕TEMP. ▲] and ⓒ [↕TEMP. ▼] buttons are pressed, the refrigerant address No. decreases and increases between 00 and 15.
Set it to the refrigerant address No. whose function you want to select.
(This step is unnecessary for single refrigerant system.)

 * If the remote controller enters the OFF state after the " F (FUNCTION)" and room temperature displays " 88 " have flashes for two seconds, communication is probably abnormal. Make sure there are no noise sources near the transmission line.

> NOTE: If you make a mistake during operation, end function selection by step ⑩ and repeat selection from step ② .

④ Set the indoor unit address No.
Press the ⓓ [🌀] button. The unit address No. display "– –" flashes.
When the ⓑ [↕TEMP. ▲] and ⓒ [↕TEMP. ▼] buttons are pressed, the unit address No. changes in the order of 00 ↔ 01 ↔ 02 ↔ 03 ↔ 04 ↔ AL. Set it to the unit address No. of the indoor unit whose functions you want to set.

Unit address No. display
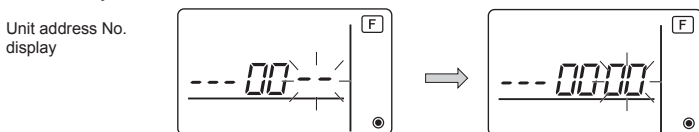
 * When setting mode 1 ~ 6, set the unit address No. to "00".
 * When setting modes 7 to 14:
   - When setting for each indoor unit, set the unit address No. to "01-04".
   - When batch setting for all indoor units, set the unit address No. to "AL".

⑤ Refrigerant address and unit address No. registration

Press the Ⓐ [①ON/OFF] button. The refrigerant address and unit address No. are registered.

After a while, the mode No. display "– –" flashes.
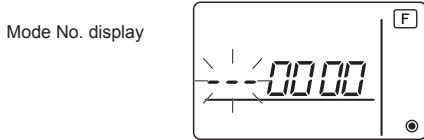
Mode No. display

* When " 88 " flashes at the room temperature display, the selected refrigerant address is not in the system. When "F" is displayed at the unit address No. display, and when it flashes together with the refrigerant address display, the selected unit address No. does not exist. Correctly set the refrigerant address and unit address No. by repeating steps ③ and ④ .

When registered using the Ⓐ [①ON/OFF], the registered indoor unit begins fan operation.
When you want to know the location of the indoor units of the unit address No. whose functions were selected, check here.
When the unit address No. is 00 or AL, all the indoor units of the selected refrigerant address perform the fan operation.

EX): When refrigerant address 00, unit address No. = 02 registered
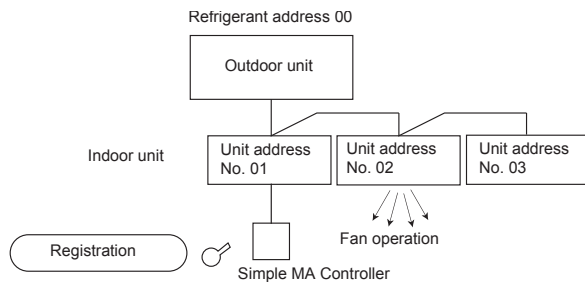
 * When grouping by different refrigerant systems and an indoor unit other than the specified refrigerant address performs the fan operation, the refrigerant address set here is probably duplicated.
    Recheck the refrigerant address at the outdoor unit dip switches.
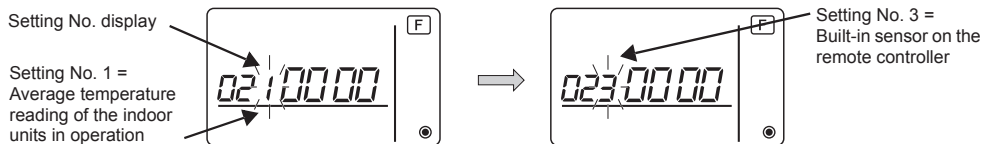
⑥ Mode No. selection

Select the mode No. you want to set with the Ⓑ [TEMP. ▲] and Ⓒ [TEMP. ▼] buttons. (Only the settable mode numbers can be selected.)

Mode No. display

Mode No. 02 = Thermistor selection
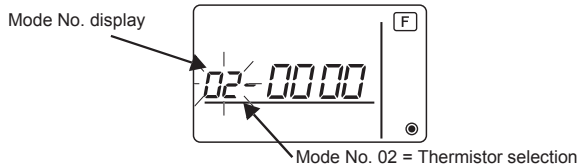
⑦ Select the setting contents of the selected mode.

When the Ⓓ [🌀] button is pressed, the current setting No. flashes. Use this to check the currently set contents.

Select the setting No. using the Ⓑ [TEMP. ▲] and Ⓒ [TEMP. ▼] buttons.

Setting No. display

Setting No. 1 = Average temperature reading of the indoor units in operation

Setting No. 3 = Built-in sensor on the remote controller

⑧ The contents set at steps ③ to ⑦ are registered.

When the Ⓐ [①ON/OFF] button is pressed, the mode No. and setting No. flash and registration begins.
The flashing mode No. and setting No. change to a steady light and setting ends.
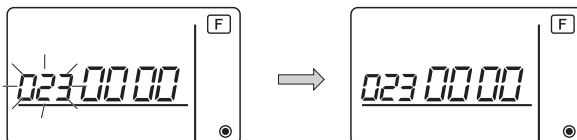
* When " 88 " flashes at the Mode No. display, communication is probably abnormal.
   Make sure there are no noise sources near the transmission line.

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⑨ To select more functions, press the Ⓓ [🌀] and repeat steps ③ to ⑧ .

OPTIONAL PARTS

⑩ End function selection.

Press and hold down the ⓒ (⬇TEMP. ▼) and ⓓ (💨⏹) buttons at the same time for two seconds or longer.

After a while, the function selection display disappears and the remote controller returns to the air conditioner off display.

* Do not operate the air conditioner from the remote controller for 30 seconds after the end of function selection.

> NOTE: When the functions of an indoor unit were changed by function selection after the end of installation, always indicate the set contents by entering check marks or other marks in the appropriate check field of Table 1.

8 Function Selection for CITY MULTI

> Make this setting only when the function settings need to be changed on CITY MULTI.
> (This setting cannot be made with Mr. SLIM Control System. To make settings for Mr. SLIM, refer to section (7 | Function Selection for Mr. SLIM).)
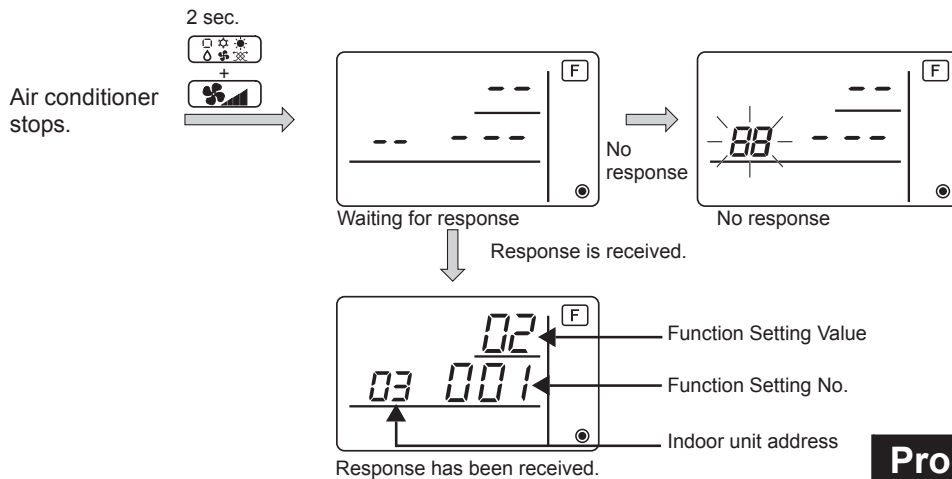
Set the functions of each indoor unit from the remote controller, as required.
Refer to the Indoor unit Installation Manual for factory settings, mode No., and the setting No. of the indoor units.

> NOTE: Be sure to write down any settings that you change performing the following steps.

■ Setting the indoor unit Setting Value

① Press the (ⓞ⏻ ON/OFF) button to stop the operation of the air conditioner.

② Press and hold down the (⚙) and the (💨⏹) buttons at the same time for two seconds or longer to check the current settings.

③ When the response has been received from the indoor unit, the current settings appear. If there is no response, nothing appears.
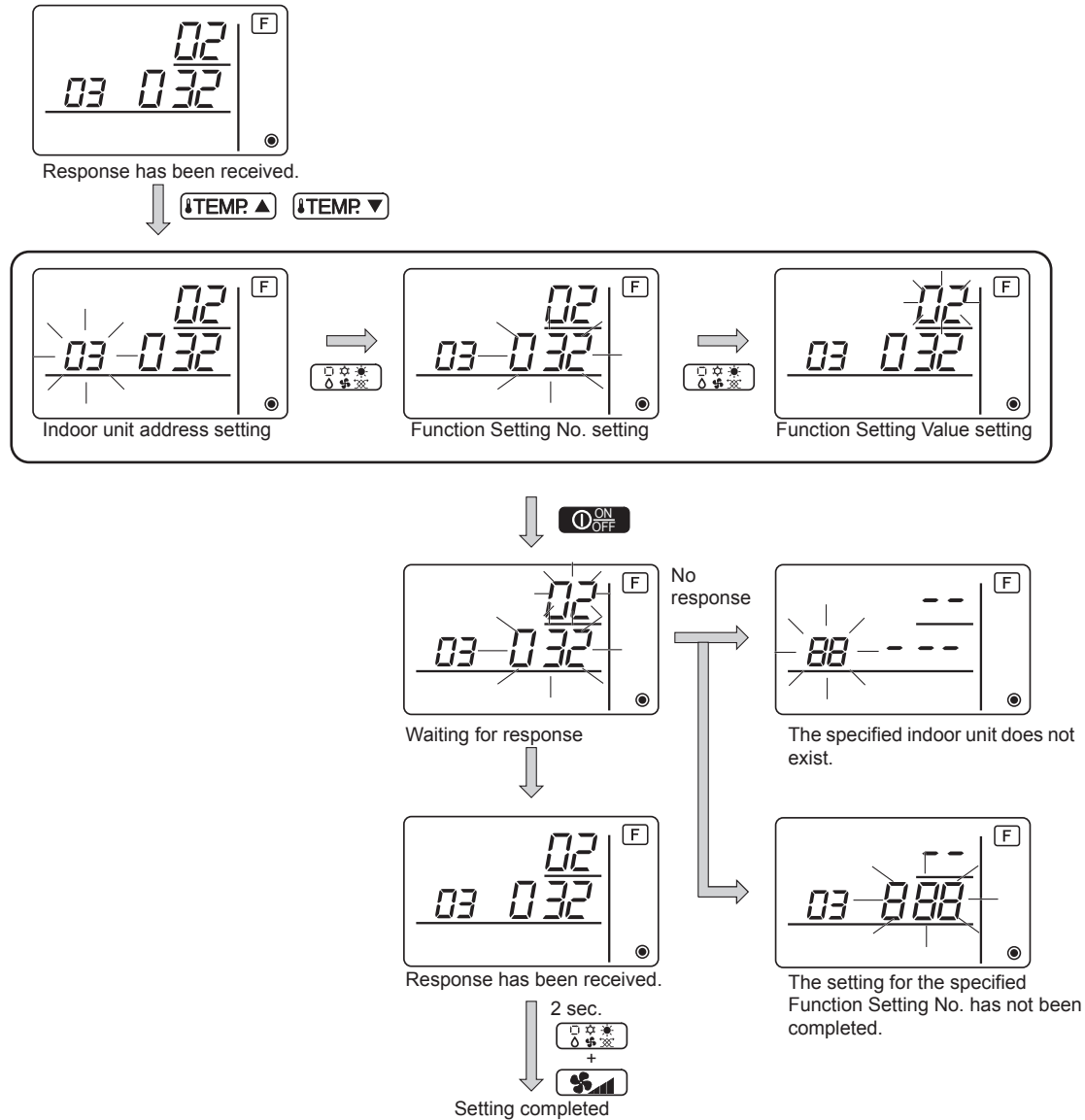

2 sec.

Air conditioner stops.

Waiting for response

No response

Response is received.

Function Setting Value

Function Setting No.

Indoor unit address

Response has been received.

Procedure A

④ Press the (⬇TEMP. ▲) and the (⬇TEMP. ▼) buttons to set the address of the indoor unit whose settings to be made. (ALL, 1 to 50)

⑤ Press the (⚙) button, then press the (⬇TEMP. ▲) and the (⬇TEMP. ▼) buttons to set the Function Setting No. to be set. (000 to 255)

⑥ Press the (⚙) button, then press the (⬇TEMP. ▲) and the (⬇TEMP. ▼) buttons to set the Function Setting Value. to be set (00 to 15)

⑦ Press the (ⓞ⏻ ON/OFF) button to set the settings.

MITSUBISHI ELECTRIC CORPORATION

OPTIONAL PARTS

⑧ If the set settings need to be changed, repeat steps ④ to ⑦ .
To complete the settings, press the [⬚] and the [🌀] buttons at the same time for two seconds or longer.

Response has been received.

[⬇TEMP.▲] [⬇TEMP.▼]

Indoor unit address setting   Function Setting No. setting   Function Setting Value setting

[①ON/OFF]

Waiting for response   No response   The specified indoor unit does not exist.

Response has been received.   The setting for the specified Function Setting No. has not been completed.

2 sec.
[⬚]
+
[🌀]
Setting completed

■ Checking the indoor unit Function Setting Value

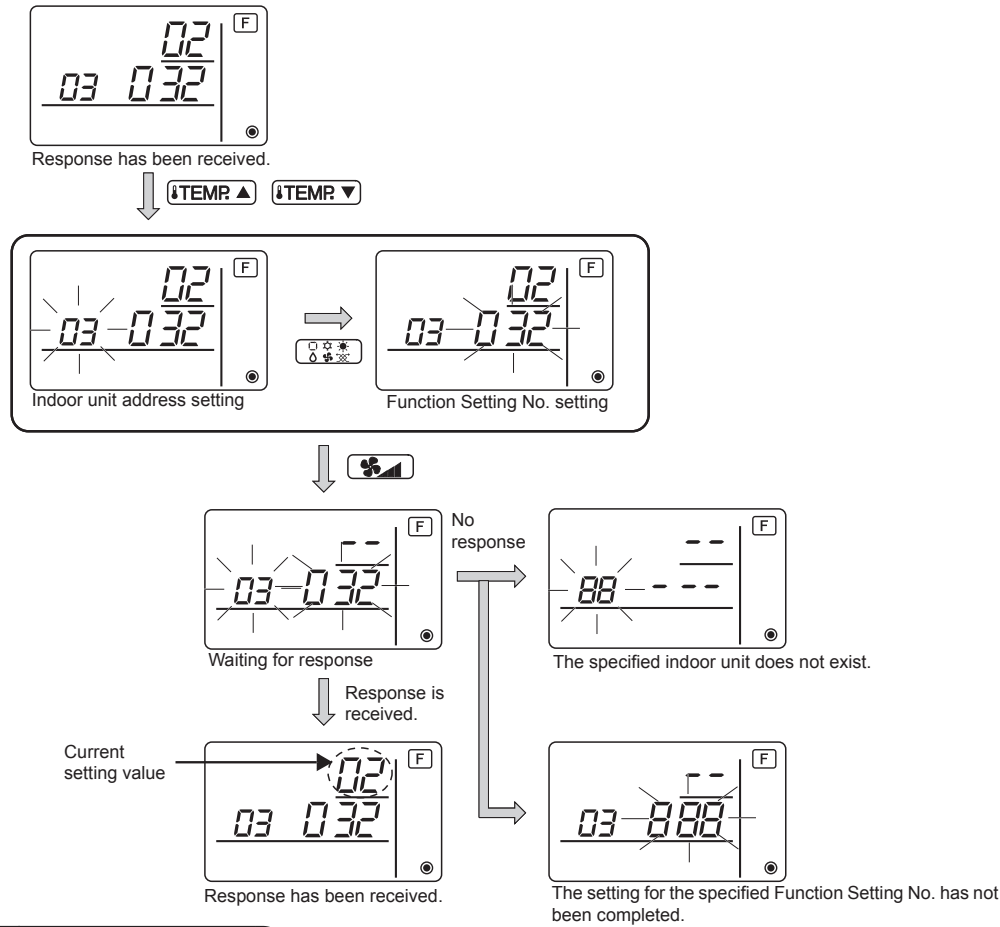① Perform the Procedure A on the previous page.

② Press the [⬇TEMP.▲] and the [⬇TEMP.▼] buttons to set the address of the indoor unit whose settings to be checked. (ALL, 1 to 50)

③ Press the [⬚] button, then press the [⬇TEMP.▲] and the [⬇TEMP.▼] buttons to set the Function Setting No. to be checked. (000 to 255)

④ Press the [🌀] button to display the current Function Setting Value.

OPTIONAL PARTS

⑤ To check the settings, repeat steps ② to ④ .
   To complete the checking process, press the [⬜☼❄] and the [❄▂] buttons at the same time
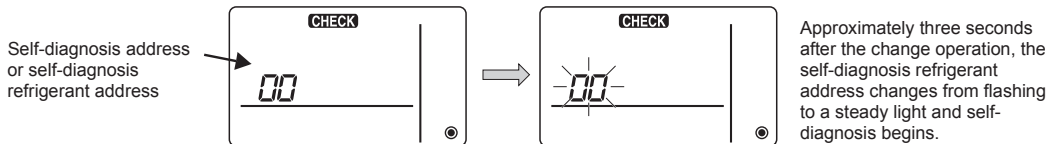   for two seconds or longer.

Response has been received.

[↓TEMP.▲] [↓TEMP.▼]

Indoor unit address setting   Function Setting No. setting

[❄▂]

Waiting for response   No response   The specified indoor unit does not exist.

Response is received.

Current setting value   Response has been received.   The setting for the specified Function Setting No. has not been completed.

9 Self diagnosis

Retrieve the error history of each unit using the Simple MA controller.

① Switch to the self-diagnosis mode.
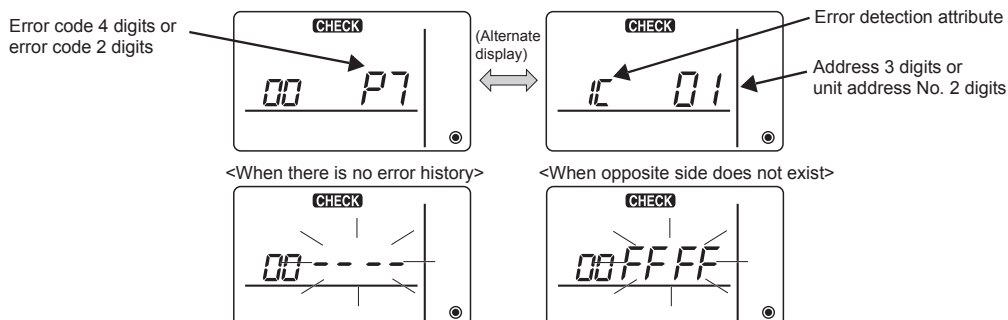   When the Ⓐ [⓪ON/OFF] button and the Ⓒ [↓TEMP.▼] button are pressed for 5 seconds or longer, the figure shown below is displayed.

② Set the address or refrigerant address No. you want to self-diagnosis.
   When the Ⓑ [↓TEMP.▲] and Ⓒ [↓TEMP.▼] are pressed, the address decreases and increases between 01 and 50 or 00 and 15. Set it to the address No. or refrigerant address No. you want to self-diagnosis.

Self-diagnosis address or self-diagnosis refrigerant address

Approximately three seconds after the change operation, the self-diagnosis refrigerant address changes from flashing to a steady light and self-diagnosis begins.

③ Self-diagnosis result display <Error history> (For the contents of the error code, refer to the indoor unit installation manual or service handbook.)

Error code 4 digits or error code 2 digits   (Alternate display)   Error detection attribute

Address 3 digits or unit address No. 2 digits

<When there is no error history>   <When opposite side does not exist>

④ Error history reset

The error history is displayed in ③ self-diagnosis results display.

When the ⓓ 🌀 button is pressed two times successively within three seconds, the self-diagnosis object address and refrigerant address flash.

When the error history was reset, the display shown below appears.

When error history reset failed, the error contents are displayed again.

----
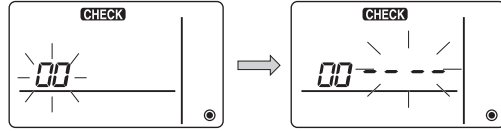
⑤ Self-diagnosis reset

There are the following two ways of resetting self-diagnosis.

Press the Ⓐ ①ON/OFF button and the ⓒ ▮TEMP.▼ button simultaneously for 5 seconds or longer.
→ Resets self-diagnosis and returns to the state before self-diagnosis.

Press the Ⓐ ①ON/OFF button. → Self-diagnosis resets and indoor units stop. (When operation is prohibited, this operation is ineffective.)
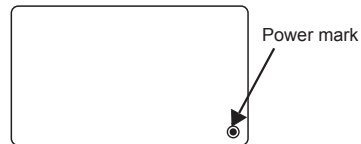
10 | Remote Controller Check

When the air conditioner cannot be controlled from the Simple MA controller, use this function to check the remote controller.

① First check the power mark.

When normal voltage (DC12V) is not applied to the remote controller, the power mark goes off.
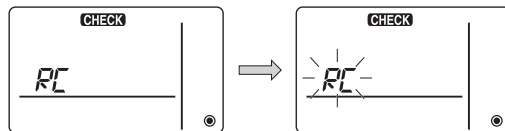
When the power mark is off, check the remote controller wiring and the indoor unit.
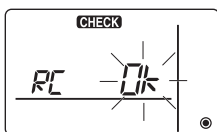

Power mark

② Switch to the remote controller check mode.

When the Ⓑ ▮TEMP.▲ button and ⓓ 🌀 button are pressed simultaneously for 5 seconds or longer, the figure shown below is displayed.

When the Ⓐ ①ON/OFF button is pressed, remote controller check begins.

③ Remote controller check result

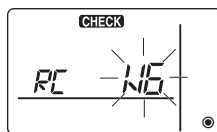<When remote controller is normal>   <When remote controller is faulty>

Since there is no problem at the remote controller, check for other causes.
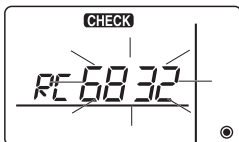
(Error display 1) "NG" flashes
 → Remote controller send/receive circuit abnormal

Remote controller switching is necessary.

| When the problem is other than the checked remote controller |

(Error display 2) "E3" "6833" "6832" flash → Cannot send

There is noise on the transmission line, or the indoor unit or another remote controller is faulty. Check the transmission line and the other remote controllers.

(Error display 3) "ERC" and data error count are displayed → Data error generation

"Data error count" is the difference between the number of bits of remote controller send data and the number of bits actually sent to the transmission line. In this case, the send data was disturbed by the noise, etc. Check the transmission line.

When data error count is 02
Remote controller send data   Send data on transmission line

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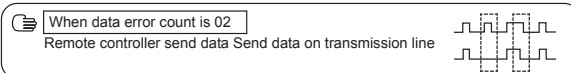
④ Remote controller check reset

When the Ⓑ ▮TEMP.▲ button and ⓓ 🌀 button are pressed simultaneously for 5 seconds or longer, remote controller diagnosis is reset, the [HO] and run lamp flash for a certain period of time, and then the remote controller returns to its state before diagnosis.

OPTIONAL PARTS