Wireless Remote Controller

PAR-SL101A-E

Photo

Descriptions

Wireless remote controller for P-series and S-series.

Applicable Models

- SLZ-M・FA2 series
- SEZ-M・DAL2 series
- SFZ-M·VA series
- PLA-ZM・EA2 series
- PLA-M・EA2 series
- PLA-SM・EA series
- PEAD-M・JA(L)2 * series
- PEAD-SM・JA(L) * series

- PEA-M・LA series
- PKA-M・LAL2 series
- PKA-M・KAL2 series
- PCA-M・KA2 * series
- PCA-M・HA2 * series
- PSA-M・KA * series

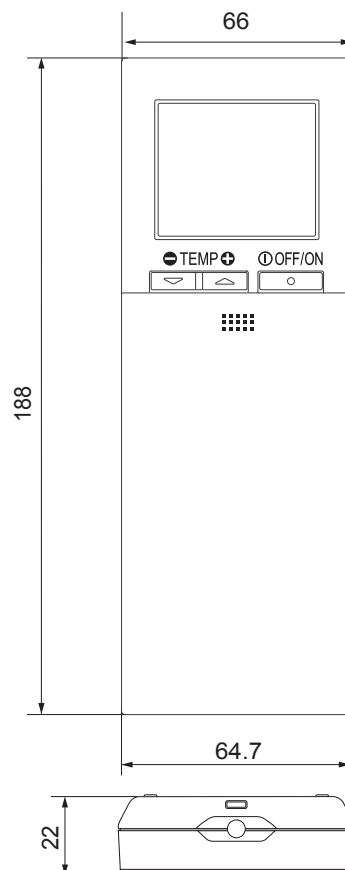*Signal receiver "PAR-SA9CA-E" is required.

Specifications

Parts Name	Quantity
Wireless remote controller	1
Remote controller holder	1
AA(LR6) alkaline battery	2
Tapping screws 3.5 × 16	2

Dimensions

Unit : mm

66

188

64.7

22

MITSUBISHI ELECTRIC CORPORATION

OPTIONAL PARTS

INDOOR UNIT

How to Use / How to Install

1 │ Confirming the Supplied Parts

Check that the box includes the following parts in addition to this installation manual:

Parts Name	Quantity
Wireless remote controller	1
Remote controller holder	1
LR6 AA alkaline battery	2
Tapping screws 3.5 × 16	2

Only use LR6 AA batteries. Replace low batteries with new LR6 AA batteries. Observe the polarity of the batteries as indicated, and insert the negative end first.

2 │ Installation

- Use the remote controller holder that is provided to avoid misplacing the remote controller.
- Install the remote controller in a location that meets the following conditions.
  - Out of the direct sun light
  - Away from any heat sources
  - Out of the airflow from the air conditioner (cool or warm)
  - Where the operation of the remote controller can easily be performed and the display is readily visible to the user
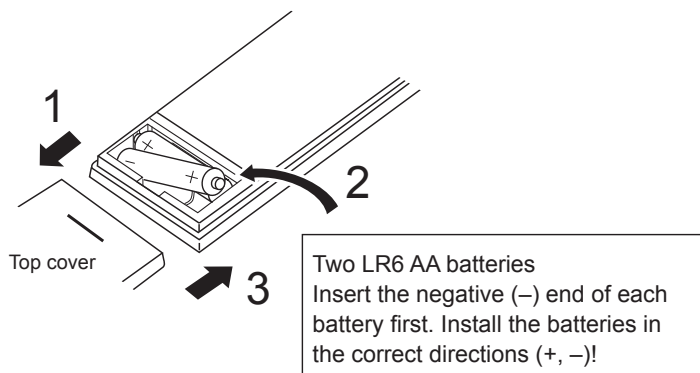 - Out of the reach of small children

NOTES:

* If there is a fluorescent light in the room in which the air conditioner is to be installed, turn it on and make sure that the signal from the remote controller can be received by the indoor unit from the intended installation location. When the signal receiving unit receives a signal from the remote controller, a short beeping sound will be heard.

> If the air conditioner unit is installed in a room in which a fluorescent light on an electronic lighting control system (i.e., inverter light) is installed, signal interference may occur.
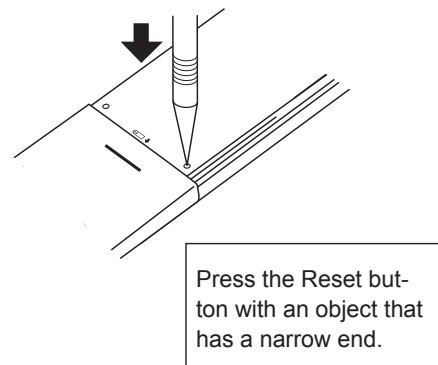
* Maximum signal receiving distance is approximately 7 meters (Approx. 22 feet). Signal receiving angle is approximately 45 degrees to the right and the left from the center.

* Install the unit at least 1 meter (Approx. 3 feet) away from the TV or radio.
(If the unit is installed too close to these appliances, signal interference (picture distortion and noise) may occur.)

- Use the tapping screws that are provided to mount the remote controller holder on the wall, and then place the remote controller in the holder.

Remote controller

Self-tapping screws

Holder
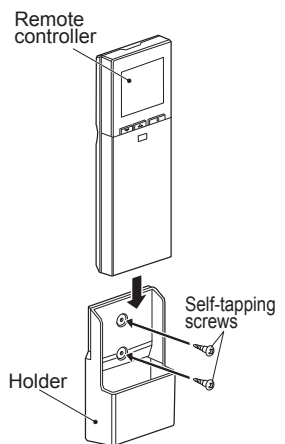
1. Remove the top cover, insert two LR6 AA batteries, and then install the top cover.

2. Press the Reset button.

1

2

3

Top cover

Two LR6 AA batteries
Insert the negative (–) end of each battery first. Install the batteries in the correct directions (+, –)!

Press the Reset button with an object that has a narrow end.

OPTIONAL PARTS

INDOOR UNIT

3 | Initial Setting
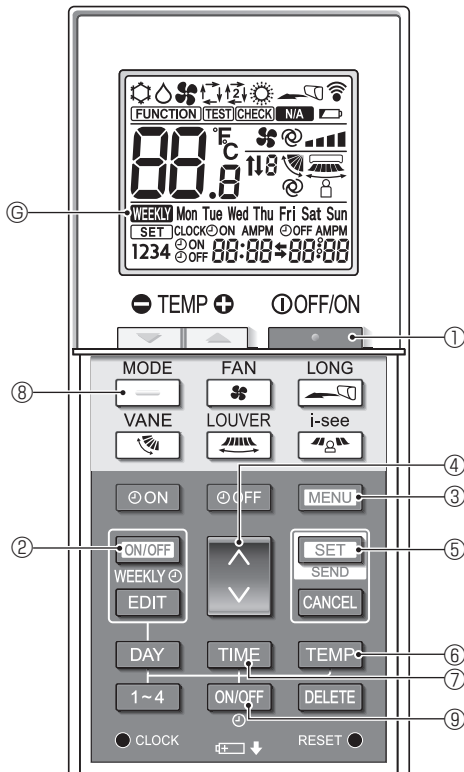
Fig. 3-1
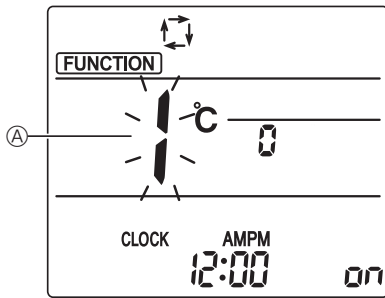
Fig. 3-2
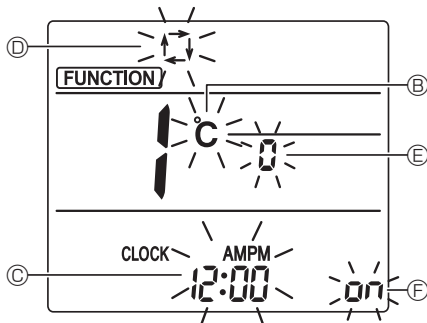
Fig. 3-3

The following settings can be made in the initial setting mode.

Item	Setting	Fig. 5-3
Temperature unit	°C/°F	Ⓑ
Time display	12-hour format/24-hour format	Ⓒ
AUTO mode	Single set point/Dual set point	Ⓓ
Pair No.	0–3	Ⓔ
Backlight	On/Off	Ⓕ

1. Switching to the initial setting mode
(Fig. 3-1, Fig. 3-2)
1. Press the [＿＿] button ① to stop the air conditioner.
   • If the weekly timer is enabled, press the [ON/OFF WEEKLY ⊘] button ② to disable the timer. (**WEEKLY** Ⓖ disappears.)
2. Press the [MENU] button ③.
   • The Function setting screen will be displayed and the function No. Ⓐ will blink.
   • Press the [⌃⌄] button ④ to change the function No.
3. Check that function No. "1" is displayed, and then press the [SET] button ⑤.
   • The Screen display setting screen will be displayed.

2. Changing the temperature unit
(Fig. 3-1, Fig. 3-3 Ⓑ)
Press the [TEMP] button ⑥.
   • Pressing the [TEMP] button ⑥ changes the temperature unit (**°C / °F**). (The factory setting is "°C".)
   ℃ : The temperature is displayed in degrees Celsius.
   ℉ : The temperature is displayed in degrees Fahrenheit.

3. Changing the time display
(Fig. 3-1, Fig.3-3 Ⓒ)
Press the [TIME] button ⑦.
   • Pressing the [TIME] button ⑦ changes the time display (12:00 / 24:00). (The factory setting is "12-hour format".)
   12:00ᴬᴹᴾᴹ : The time is displayed in the 12-hour format.
   24:00 : The time is displayed in the 24-hour format.

4. Changing the AUTO mode
(Fig. 3-1, Fig.3-3 Ⓓ)
Press the [＿] button ⑧.
   • Pressing the [＿] button ⑧ changes the Auto mode (⚙ / ⚙). (The factory setting is "Single set point".)
   ⚙ : The AUTO mode operates as the usual automatic mode (Single set point).
   ⚙ : The AUTO mode operates using dual set points.

5. Changing the pair No. (Fig. 3-1, Fig.3-3 Ⓔ)

Press the ⌄ button ④.
- Set the pair number to "0"–"3". (The factory setting is "0".)

Pair No. of wireless remote controller	Indoor unit setting		
	Mr. Slim	CITY MULTI	
	Indoor PC board jumper wire (J41 and J42 settings)	Indoor PC board SW22 settings	
		SW22-3	SW22-4
0	Do not cut (initial setting)	ON	ON
1	Cut only J41	OFF	ON
2	Cut only J42	ON	OFF
3	Cut both J41 and J42	OFF	OFF

Setting example (when using Mr. Slim)

Independent system	(1) Same settings • All of the units can be operated by the same wireless remote controller.	• All of the indoor PC boards and the wireless remote controller are set to the same pair number. • Install each unit within the receiving range of the wireless remote controller or have the operator move the wireless remote controller to operate each unit.
	(2) Separate settings • Each unit can be operated only by its own wireless remote controller.	• The indoor PC boards and wireless remote controllers are set to different pair numbers for each unit.
Simultaneous twin/triple/quad-ruple system	Example of triple system	• The system operates regardless of which indoor unit receives the signals.

6. Changing the backlight setting

(Fig. 3-1, Fig. 3-3 Ⓕ)

Press the ON/OFF button ⑨.

- Pressing the ON/OFF button ⑨ changes the setting (on / o FF). (The factory setting is "ON".)
   on : The backlight comes on when a button is pressed.
   o FF : The backlight does not come on when a button is pressed.

7. Completing the settings

(Fig. 3-1, Fig. 3-2)

Press the SET button ⑤.
- The function No. Ⓐ blinks.
Press the MENU button ③.
- The remote controller exits the initial setting mode. (The air conditioner operation is stopped.)
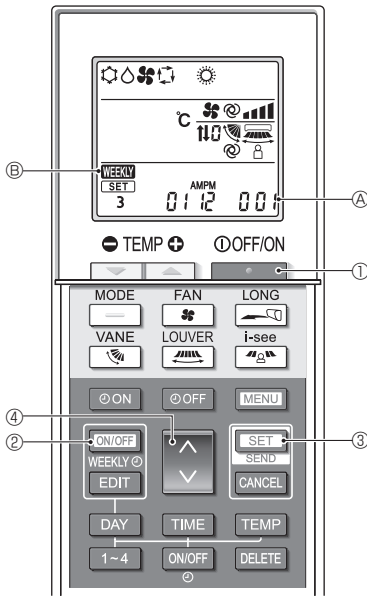
OPTIONAL PARTS

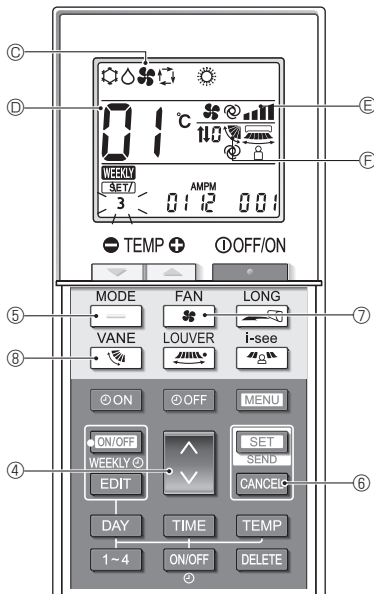INDOOR UNIT

4 | Function settings

Fig. 4-1

Fig. 4-2

To confirm the functions and settings for the indoor unit you want to set, refer to the operation manual and technical materials for the unit.

1. Switching to the function setting mode (Fig. 4-1)

1. Press the [   ] button ① to stop the air conditioner.
   - If the weekly timer is enabled, press the [ON/OFF WEEKLY⊘] button ② to disable the timer. ([WEEKLY] ⑧ disappears.)
2. Press the [SET] button ③ for 5 seconds.
   - The remote controller enters the function setting mode. (The group model setting number Ⓐ blinks.)

2. Entering the group model setting number (Fig. 4-1)

Press the [⌄] button ④.
   - Enter the group model setting number for the indoor unit you want to operate. (The factory setting is "001".)
     To confirm the group model setting number, refer to the indoor unit operation manual.
   - The fan speed, vertical airflow direction and operation mode can be set by operating the group model setting number.
     When you want to change any settings other than above, refer to the descriptions about the separate setting modes in the following pages.

3. Separate settings mode 1 (Fig. 4-2, Fig. 4-3)

You can also set the functions as necessary for the indoor unit that you want to operate.

1) Operation mode setting (The factory setting is "01".)

1. Press the [—] button ⑤.
   - The operation mode Ⓒ blinks.
2. Press the [⌄] button ④ to select the setting number Ⓓ.

Operation mode display Ⓒ	Setting No. Ⓓ	Operation mode display Ⓒ	Setting No. Ⓓ
✿◇❄🌡 ☀	01	✿ ❄🌡 ☀	05
✿◇ 🌡 ☀	02	✿◇❄	06
✿◇❄ ☀	03	✿ ❄	07
✿ ❄ ☀	04		

* If the setting is incorrect, press the [CANCEL] button ⑥ and repeat the procedure from step 1.

2) Fan speed setting (The factory setting is "01".)

1. Press the [❄] button ⑦.
   - The fan speed Ⓔ blinks.
2. Press the [⌄] button ④ to select the setting number Ⓓ.

Fan speed display Ⓔ	Setting No. Ⓓ
❄ ▪▪▪▪ (4 speeds)	01
❄ ▪▪▪ (3 speeds)	02
❄ ▪▪ (2 speeds)	03
❄ ▪ (1 speed, none)	04

* If the setting is incorrect, press the [CANCEL] button ⑥ and repeat the procedure from step 1.

3) Vertical airflow direction setting (The factory setting is "01".)

1. Press the [🌀] button ⑧.
   - The airflow direction Ⓕ blinks.
2. Press the [⌄] button ④ to select the setting number Ⓓ.

Airflow direction Ⓕ			Setting No. Ⓓ
With auto vane		Without auto vane	
🌀	(With vane, swing)	🌀	(With vane, swing)	01
🌀	(With vane, no swing)	🌀	(With vane, no swing)	02
No display (no vane)		No display (no vane)	03

* If the setting is incorrect, press the [CANCEL] button ⑥ and repeat the procedure from step 1.
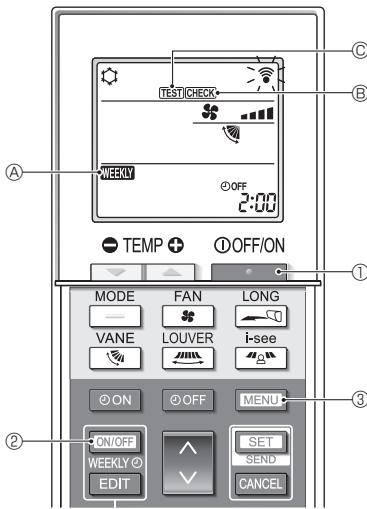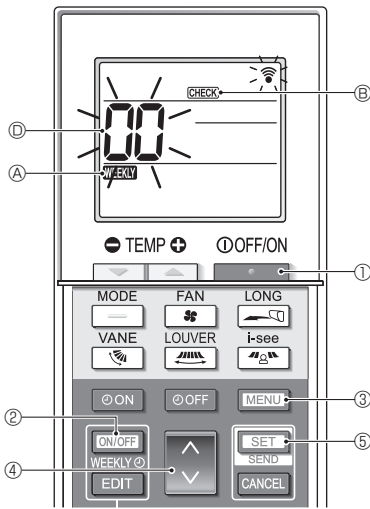
5 | Service

Fig. 5-1

Fig. 5-2

1. Testrun (Fig. 5-1)

1. Press the [____] button ① to stop the air conditioner.
   - If the weekly timer is enabled (WEEKLY Ⓐ is on), press the [ON/OFF] button ② to disable it (WEEKLY Ⓐ is off).

2. Press the [MENU] button ③ for 5 seconds.
   - CHECK Ⓑ comes on and the unit enters the service mode.
3. Press the [MENU] button ③.
   - TEST Ⓒ comes on and the unit enters the test run mode.
4. Press the following buttons to start the test run.
   - [—] : Switch the operation mode between cooling and heating and start the test run.
   - [✻] : Switch the fan speed and start the test run.
   - [🌬] : Switch the airflow direction and start the test run.
   - [▥] : Switch the louver and start the test run.
   - [SET] : Start the test run.
5. Stop the test run.
   - Press the [____] button ① to stop the test run.
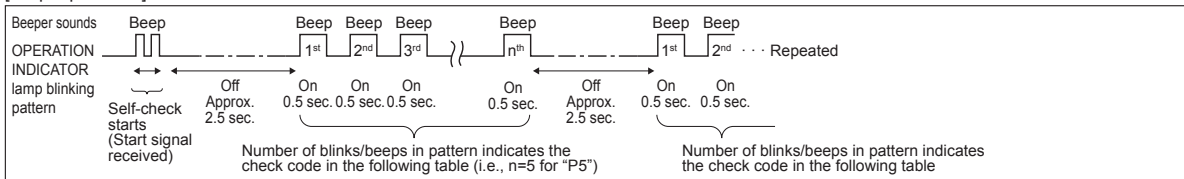   - After 2 hours, the stop signal is transmitted.

2. Self-check (Fig. 5-2)

1. Press the [____] button ① to stop the air conditioner.
   - If the weekly timer is enabled (WEEKLY Ⓐ is on), press the [ON/OFF] button ② to disable it (WEEKLY Ⓐ is off).

2. Press the [MENU] button ③ for 5 seconds.
   - CHECK Ⓑ comes on and the unit enters the self-check mode.
3. Press the [∧∨] button ④ to select the refrigerant address (M-NET address) Ⓓ of the indoor unit for which you want to perform the self-check.
4. Press the [SET] button ⑤.
   - If an error is detected, the check code is indicated by the number of beeps from the indoor unit and the number of blinks of the OPERATION INDICATOR lamp.
5. Press the [____] button ①.
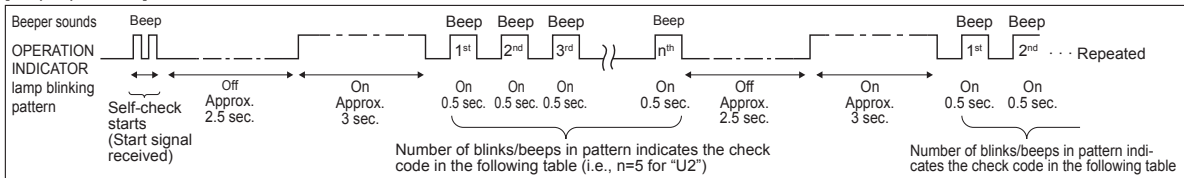   - CHECK Ⓑ and the refrigerant address (M-NET address) Ⓓ go off and the self-check is completed.

Refer to the following tables for details on the check codes.
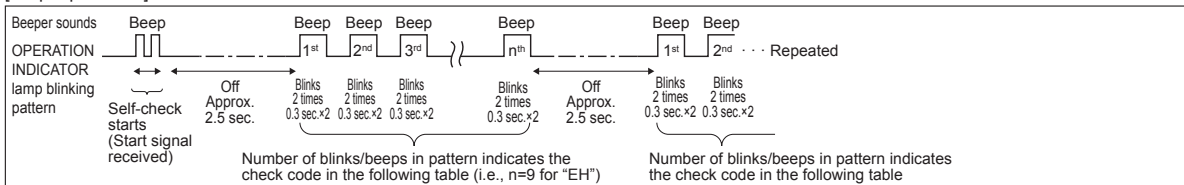* A receiver adapter (MA type) cannot be used.

[Output pattern A]

Beeper sounds	Beep		Beep	Beep	Beep		Beep		Beep	Beep	
OPERATION INDICATOR lamp blinking pattern			1st	2nd	3rd	) (	nth		1st	2nd	· · · Repeated
	Self-check starts (Start signal received)	Off Approx. 2.5 sec.	On 0.5 sec.	On 0.5 sec.	On 0.5 sec.		On 0.5 sec.	Off Approx. 2.5 sec.	On 0.5 sec.	On 0.5 sec.	

Number of blinks/beeps in pattern indicates the check code in the following table (i.e., n=5 for "P5")
Number of blinks/beeps in pattern indicates the check code in the following table

[Output pattern B]

Beeper sounds	Beep			Beep	Beep	Beep		Beep			Beep	Beep	
OPERATION INDICATOR lamp blinking pattern				1st	2nd	3rd	) (	nth			1st	2nd	· · · Repeated
	Self-check starts (Start signal received)	Off Approx. 2.5 sec.	On Approx. 3 sec.	On 0.5 sec.	On 0.5 sec.	On 0.5 sec.		On 0.5 sec.	Off Approx. 2.5 sec.	On Approx. 3 sec.	On 0.5 sec.	On 0.5 sec.	

Number of blinks/beeps in pattern indicates the check code in the following table (i.e., n=5 for "U2")
Number of blinks/beeps in pattern indicates the check code in the following table

[Output pattern C]

Beeper sounds	Beep		Beep	Beep	Beep		Beep		Beep	Beep	
OPERATION INDICATOR lamp blinking pattern			1st	2nd	3rd	) (	nth		1st	2nd	· · · Repeated
	Self-check starts (Start signal received)	Off Approx. 2.5 sec.	Blinks 2 times 0.3 sec.×2	Blinks 2 times 0.3 sec.×2	Blinks 2 times 0.3 sec.×2		Blinks 2 times 0.3 sec.×2	Off Approx. 2.5 sec.	Blinks 2 times 0.3 sec.×2	Blinks 2 times 0.3 sec.×2	

Number of blinks/beeps in pattern indicates the check code in the following table (i.e., n=9 for "EH")
Number of blinks/beeps in pattern indicates the check code in the following table

OPTIONAL PARTS

INDOOR UNIT

■ Mr. Slim output contents

[Output pattern A]   Errors detected by indoor unit

Wireless remote controller	Wired remote controller	Symptom	Remark
Beeper sounds/OPERATION INDICATOR lamp blinks (Number of times)	Check code		
1	P1	Intake sensor error	
2	P2, P9	Pipe (liquid or 2-phase pipe) sensor error	
3	E6, E7	Indoor/outdoor unit communication error	
4	P4	Drain sensor error/Float switch connector open	
5	P5	Drain overflow protection operation	
	PA	Forced compressor error	
6	P6	Freezing (during cooling operation)/Overheating protection operation (during heating operation)	
7	EE	Assembly error (system error)	
8	P8	Pipe temperature error	
9	E4	Communication error between wired remote controller and indoor unit	
10	—	—	
11	Pb	Indoor unit fan motor error	
12	Fb	Indoor unit control system error (memory error, etc.)	
14	PL	Refrigerant circuit abnormal	

[Output pattern B]   Errors detected by unit other than indoor unit (outdoor unit, etc.) * The supported check codes may vary depending on the connected outdoor unit.

Wireless remote controller	Wired remote controller	Symptom	Remark
Beeper sounds/OPERATION INDICATOR lamp blinks (Number of times)	Check code		
1	E9	Indoor/outdoor unit communication error	
2	UP	Compressor overcurrent interruption	
3	U3, U4	Open/short of outdoor unit thermistors	
4	UF	Compressor overcurrent interruption (When compressor locked)	
5	U2	Abnormal high discharging temperature/49C worked/insufficient refrigerant	
6	U1, Ud	Abnormal high pressure (63H worked)/Overheating protection operation	For details, check the LED display of the outdoor controller board.
7	U5	Abnormal temperature of heat sink	
8	U8	Outdoor unit fan protection stop	
9	U6	Compressor overcurrent interruption/Abnormal of power module	
10	U7	Abnormality of super heat due to low discharge temperature	
11	U9, UH	Abnormality such as overvoltage or voltage shortage and abnormal synchronous signal to main circuit/Current sensor error	
12	—	—	
13	—	—	
14	Others	Other errors (Refer to the technical manual for the outdoor unit.)	

[Output pattern C]   Errors detected by unit other than indoor unit (outdoor unit, etc.)

Wireless remote controller	Wired remote controller	Symptom	Remark
Beeper sounds/OPERATION INDICATOR lamp blinks (Number of times)	Check code		
9	EH	Panel communication abnormal (auto ascending/descending panel)	

■ **CITY MULTI output contents**

[Output pattern A] The abnormal unit (attribute) is an indoor unit, LOSSNAY unit, or outdoor air processing unit.
[Output pattern B] The abnormal unit (attribute) is an outdoor unit or other unit (a unit other than an indoor unit, LOSS-NAY unit, or outdoor air processing unit).

Beeper sounds/OPERATION INDICATOR lamp blinks (Number of times)	M-NET check code	Remarks
1	1000 – 1999	
2	2000 – 2999	
3	3000 – 3999	If the wired remote controller and system controller are not used together, the details of the check codes in the error history can be checked using the LED display of the outdoor PC board.
4	4000 – 4999	
5	5000 – 5999	
6	6000 – 6999	To check the error history of the outdoor unit, refer to the outdoor unit service handbook.
7	7000 – 7999	
8	0 – 999	

Notes:
1. If the beeper does not sound and the OPERATION INDICATOR lamp remains off after the signal was received when the self-check starts, there is no error history.
2. If the beeper sounds 3 times continuously "beep, beep, beep (0.4 + 0.4 + 0.4 seconds)" after the signal was received when the self-check starts, the specified refrigerant address (M-NET address) is incorrect.

3. Unit function selection

This setting method is for Mr. Slim. For CITY MULTI models, set the DIP switches on the indoor PC board and outdoor PC board.
To set the DIP switches, refer to the technical materials for the CITY MULTI models.

Set the functions as necessary using the remote controller. The functions for each unit can be set only from the remote controller.
Select the functions from table 1 that must be set.
Only the refrigerant systems that are connected to indoor units equipped with wireless remote controller receivers can be set from the wireless remote controller operation unit. The refrigerant address cannot be specified using the wireless remote controller operation unit.

Table 1 Function selection settings (For details about the factory settings and modes of each indoor unit, refer to the indoor unit installation manual.)

Note: The items in the following table are representative examples. Because the settings for each mode may vary depending on the model, refer to the indoor unit installation manual for details.

Mode	Settings	Mode no.	Setting no.	Initial setting	Setting
Power failure auto-matic recovery	Not available	01	1		Select unit number 00.
	Available		2		
Indoor temperature detecting	Indoor unit operating average	02	1		
	Set by indoor unit's remote controller		2		
	Remote controller's internal sensor		3		
LOSSNAY connectivity	Not Supported	03	1		
	Supported (indoor unit is not equipped with fresh air intake)		2		
	Supported (indoor unit is equipped with fresh air intake)		3		
Auto operation mode	Auto operation mode Single set point (Available 14°C (58°F) cooling setting) *1 *2	06	1		
	Dual set point (Not available 14°C (58°F) cooling set-ting) *1 *2		2		
Filter sign	100Hr	07	1		Select unit number 01–04 or AL (all units).
	2500Hr		2		
	No filter sign indicator		3		
Fan speed	Silent	08	1		
	Standard		2		
	High ceiling		3		
Number of air outlets	4-directional	09	1		
	3-directional		2		
	2-directional		3		
Installed option (high-efficiency filter, etc.)	Without	10	1		
	With		2		
Up/down vane setting *3	Not setting/Equipped with vanes (vanes angle setup ③)	11	1		
	Equipped with vanes (vanes angle setup ①)		2		
	Equipped with vanes (vanes angle setup ②)		3		
Built-in humidifier	Not equipped	13	1		
	Equipped		2		

*1 It is available when the indoor unit is connected to any of the particular outdoor units.
*2 An optional insulation kit is required.
*3 The setting varies depending on the model.

Function selection procedure (Fig. 5-3, 5-4)
First, it is important to understand the procedure for the function selection. The following procedure explains how to set "LOSSNAY connectivity" in table 1 to "Supported (indoor unit is not equipped with outdoor-air intake)" as an example.
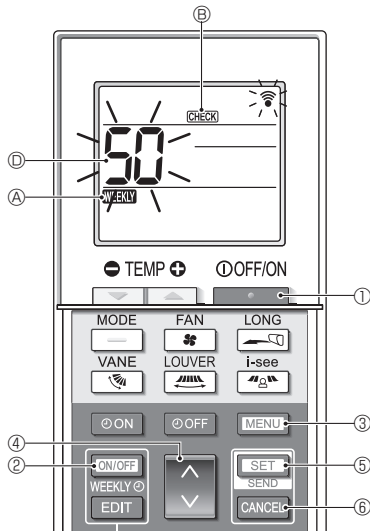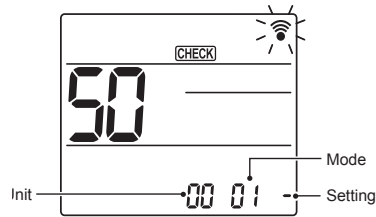For the actual operations, refer to the following procedure.

Fig. 5-3

Fig. 5-4

1. Press the ⬜ button ① to stop the air conditioner.
   * If the weekly timer is enabled (WEEKLY Ⓐ is on), press the ON/OFF WEEKLY button ② to disable it (WEEKLY Ⓐ is off).
2. Press the MENU button ③ for 5 seconds.
   • CHECK Ⓑ comes on and the unit enters the self-check mode.
3. Press the ∧∨ button ④ to set the displayed number Ⓓ to "50".
   • While pointing the wireless remote controller toward the receiver, press the SET button ⑤. (The unit number blinks.)
4. Press the ∧∨ button ④ to set the unit number of the indoor unit.
   • While pointing the wireless remote controller toward the receiver, press the SET button ⑤. (The mode number blinks.)
   * When the unit number is transmitted, the selected indoor unit starts operating in the fan mode. You can use this step to confirm which indoor unit corresponds to the unit number you selected to change the functions. However, if you set the unit number to "00" or "AL", all of the indoor units in the same refrigerant system will start operating in the fan mode.
   * If you transmit a unit number that cannot be selected, the beeper sounds 3 times continuously "beep, beep, beep (0.4 + 0.4 + 0.4 sec.)". If this occurs, press the CANCEL button ⑥, and then set the unit number again while the unit number display is blinking.
   * If the signal was not received correctly, the beeper will not sound or it will beep twice. If this occurs, press the CANCEL button ⑥, and then set the unit number again while the unit number display is blinking.
5. Press the ∧∨ button ④ to set the mode number.
   • While pointing the wireless remote controller toward the receiver, press the SET button ⑤. (The setting number blinks.) At this time, the beeper sound and OPERATION INDICATOR lamp blinking pattern indicate the current setting number for the selected mode number.
   Current setting value = 1: Beep (1 sec.) × 1 time
   = 2: Beep (1 sec.) × 2 times
   = 3: Beep (1 sec.) × 3 times

   * If you enter a mode that cannot be set, the beeper sounds 3 times continuously "beep, beep, beep (0.4 + 0.4 + 0.4 sec.)". If this occurs, press the CANCEL button ⑥, and then set the mode number again while the mode number display is blinking.
   * If the signal was not received correctly, the beeper will not sound or it will beep twice. If this occurs, press the CANCEL button ⑥, and then set the mode number again while the mode number display is blinking.
6. Press the ∧∨ button ④ to select the setting number.
   • While pointing the wireless remote controller toward the receiver, press the SET button ⑤. (The mode number blinks.) At this time, the beeper sound and OPERATION INDICATOR lamp blinking pattern indicate the setting number for the selected mode number.
   Current setting value = 1: Beep (1 sec.) × 1 time
   = 2: Beep (1 sec.) × 2 times
   = 3: Beep (1 sec.) × 3 times
   * If you enter a number that cannot be set, the originally set number will be used.
   * If the signal was not received correctly, the beeper will not sound or it will beep twice. If this occurs, repeat the procedure from step 5.
7. To set another mode without changing the unit number of the indoor unit, repeat steps 5 and 6.
8. To change the unit number of the indoor unit and perform the function selection, repeat steps 4–6.
9. Press the ⬜ button ① to complete the function selection.

Note:
● After the function selection is complete, do not operate the wireless remote controller for 30 seconds.
● Whenever the function selection is used to change the indoor unit functions after installation, be sure to record all of the settings with a "○" or other mark in the "Initial setting" column of the table.