

For Packaged Air Conditioner

Wireless Remote Controller Installation Manual

PAR-FL32MA

This installation manual contains only the description of how to install the wireless remote controller unit PAR-FL32MA.

For your safety, first be sure to read “(1) Safety Precautions” described below thoroughly and then install the wireless remote controller unit PAR-FL32MA correctly.

1 Safety Precautions

- The following two symbols are used to denote dangers that may be caused by incorrect use and their degree:

WARNING	This symbol denotes what could lead to serious injury or death if you misuse the PAR-FL32MA.
CAUTION	This symbol denotes what could lead to a personal injury or damage to your property if you misuse the PAR-FL32MA.

- After reading this installation manual, keep it in a place where the final user can see it anytime.
When someone moves, repairs or uses the PAR-FL32MA, make sure that this manual is forwarded to the final user.

WARNING

Ask your dealer or technical representative to install the unit.

Any deficiency caused by your own installation may result in an electric shock or fire.

Install in a place which is strong enough to withstand the weight of the PAR-FL32MA.

Any lack of strength may cause the PAR-FL32MA to fall down, resulting in personal injury.

Never modify or repair the PAR-FL32MA by yourself.

Any deficiency caused by your modification or repair may result in an electric shock or fire.
Consult with your dealer about repairs.

Ensure that installation work is done correctly following this installation manual.

Any deficiency caused by installation may result in an electric shock or fire.

All electrical work must be performed by a licensed technician, according to local regulations and the instructions given in this manual.

Any lack of electric circuit or any deficiency caused by installation may result in an electric shock or fire.

Do not move and re-install the PAR-FL32MA yourself.

Any deficiency caused by installation may result in an electric shock or fire.
Ask your distributor or special vendor for moving and installation.

To dispose of this product, consult your dealer.

CAUTION

Do not install in any place exposed to flammable gas leakage.

Flammable gases accumulated around the body of PAR-FL32MA may cause an explosion.

Do not use in any special environment.

Using in any place exposed to oil (including machine oil), steam and sulfuric gas may deteriorate the performance significantly or give damage to the component parts.

Do not wash with water.

Doing so may cause an electric shock or a malfunction.

Do not install in any place at a temperature of more than 40 °C (104 °F) or less than 0 °C (32 °F) or exposed to direct sunlight.

Do not install in any steamy place such a bathroom or kitchen.

Avoid any place where moisture is condensed into dew. Doing so may cause an electric shock or a malfunction.

Do not install in any place where acidic or alkaline solution or special spray are often used.

Doing so may cause an electric shock or malfunction.

Do not touch any circuit board with your hands or with tools. Do not allow dust to collect on the circuit board.

Doing so may cause fire or an electric shock.

Do not touch any control button with your wet hands.

Doing so may cause an electric shock or a malfunction.

Do not press any control button using a sharp object.

Doing so may cause an electric shock or a malfunction.

2 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
AAA alkaline battery	2
Tapping screws 4.1 × 16	2
Instruction book	2

Only use AAA batteries (LR03). Replace low batteries with new AAA batteries (LR03). Observe the polarity of the batteries as indicated, and insert the negative end first.

3 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:

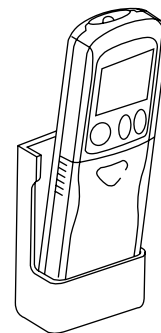
* If there is a fluorescent light in the room in which the air conditioner is to be installed, turn it on and make sure that the signal from the remote controller can be received by the indoor unit from the intended installation location. When the signal receiving unit receives a signal from the remote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



NOTES:

- Some older versions of signal receiving unit may not respond to the signals from the remote controller that correspond to the following functions. If this happens, set the model setting on the remote controller to "Standard 2 °F" as shown in section "4 Model Setting".

<Functions not supported by older versions of signal receiving unit >

- Temperature setting in 1 °F increments.
- Control operations that are performed on the controller with the setting other than "Standard 2 °F".

4 Model Setting

Model setting must be made to control indoor units.

Register the model of the indoor unit to be controlled on the Model Select menu. Correct indoor unit model must be registered on the remote controller to control the indoor unit. Collectively set items need to be set for each group of indoor units with the same pattern of functions. Individually set items usually do not need to be changed.

■ Remote controller setting

There are three ways to make remote controller settings as follows.

1. Check the model of the indoor unit to be controlled from the wireless remote controller, and find the corresponding model number of the wireless remote controller in the table of model numbers. (Collective setting) → Step 1
2. If the name of the indoor unit to be controlled is not listed in the table of model numbers, check the available functions of the indoor unit in a technical manual and follow one of the following procedures to make the settings for the remote controller.
 - ① Model No. Find the model number of the unit that has the same functions as the unit to be installed and register that model number (Collective setting). → Step 2
 - ② Model No. Make the setting for certain functions individually without referring to the table (Individual setting). → Step 3
3. Whether items 1 or 2 above apply or not, when the settings must be made for items that cannot be set collectively, make the settings for those items individually. → Step 3

■ Setting items

There are two types of setting items

- Collectively set items
- Individually set items

Items that can be set collectively can also be set individually. (If the setting for each item is individually entered, the model number that corresponds to the same pattern of settings will appear on the display.)

<Collectively and individually set items>

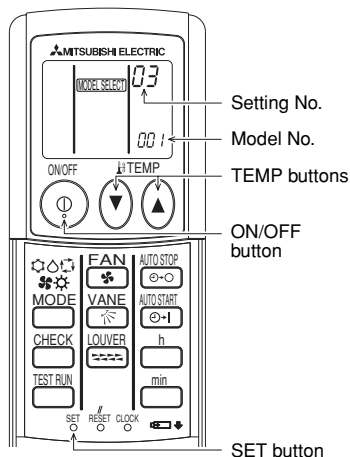
	Setting items	Collective setting	Individual setting	Initial setting	Remarks
Collectively set items	No. of fan speeds	Yes	Yes	4 speeds	When the model number is available, these settings do not need to be set individually. The initial setting for the model setting is "No. 001."
	Louver swing	Yes	Yes	Disabled	
	Vane	Yes	Yes	Auto swing enabled	
	Operation mode	Yes	Yes	Heat pump model *1	
Individually set items	Auto fan speed control	No	Yes	Disabled	These settings cannot be set collectively and must be set individually. Make the setting as necessary. • Changing the setting for these items does not change the model number that appears on the remote controller. • These items are not automatically set when the settings for collectively set items are made.
	Preset temperature	No	Yes	Settable	
	Temperature display in °C and °F	No	Yes	Centigrade	
	Pair No.	No	Yes	0	
	Model	No	Yes	Standard model	

* 1: Cool/Dry/Auto/Fan/Heat

2. Refer to the table of model numbers and find the model number that corresponds to the model of indoor unit to be controlled. Make the settings according to the operation procedures.

Cooling/ heating Type	Model No.	Indoor unit model name (Only the prototypes are shown.)	Cooling/ heating Type	Model No.	Indoor unit model name (Only the prototypes are shown.)
		CITY MULTI system			CITY MULTI system
Cooling/ Heating Type (Cool/Dry/Auto/ Fan/Heat)	001	PLFY-AM model	Cooling only type (Cool/Dry/Fan)	033	PLFY-AM model
		PLFY-JM model			PLFY-JM model
	Factory setting	PMFY-BM model			PMFY-BM model
		PCFY-GM model			PCFY-GM model
		PKFY-AM model			PKFY-AM model
		PKFY-GM model			PKFY-GM model
	002	PLFY-LMD (22~112) model		034	PLFY-LMD (22~112) model
	009	PLFY-LMD (140) model		041	PLFY-LMD (140) model
	015	PMFY-EM model		047	PMFY-EM model
	017	PDFY-M (22~80) model		049	PDFY-M (22~80) model
	019	PCFY-HM model		051	PCFY-HM model
		PDFY-M (90~140) model			PDFY-M (90~140) model
		PEFY-AM model			PEFY-AM model
		PEFY-M (45~160) model			PEFY-M (45~160) model
		PFFY-LEM model			PFFY-LEM model
		PFFY-LRM model			PFFY-LRM model
	020	PEFY-M (224~280) model		052	PEFY-M (224~280) model
		PFFY-DM model			PFFY-DM model
	023	PSFY-GM model		055	PSFY-GM model

Note 3: To set the model number for the indoor unit that is not listed in the table above, check the functions that are available to it in the applicable technical document, and make an appropriate setting for the model number according to the table of model numbers.



- Press the ON/OFF button to turn on the remote controller display, and confirm that the model number is correctly set.

- **MODEL SELECT** and the model number that was entered will stay lit for three seconds and then go off.

2. Setting procedures are the same for those listed under Step 1.

[illegible]

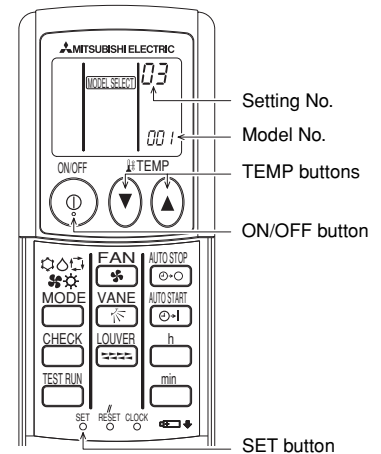
Model number		216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256		
1.Fan speed	①4 speeds		○				○				○				○				○				○				○				○				○				○					
	②3 speeds			○				○				○				○				○				○				○				○				○				○				
	③2 speeds				○				○				○				○				○				○				○				○				○				○			
	④Fixed speed	○					○				○				○				○				○				○				○			○				○				○		
2.Louver swing (horizontal air direction control)	①Disabled		○	○	○	○					○	○	○	○		○	○	○	○	○	○	○		○	○	○		○	○	○	○				○	○	○	○						
	②Enabled	○						○	○	○						○	○	○					○	○	○	○		○	○	○	○				○	○	○	○						
3.Vane (vertical air direction control)	①Adjustable vane/Auto swing enabled										○	○	○	○	○	○	○	○					○	○	○	○					○	○	○				○	○	○	○				
	②Adjustable vane/Auto swing disabled																		○	○	○	○	○	○	○																			
	③Fixed	○																																										
	④Undefined (Fixed)		○	○	○	○	○	○	○	○																										○	○	○	○	○	○	○	○	○
4.Operation mode	①Cool/Dry/Auto/Fan/Heat																																											
	②Cool/Dry/Fan																																											
	③Cool/Dry/Auto/Heat																																											
	④Cool/Dry/Auto/Fan/Combustion Heat/Heat																																											
	⑤Cool/Fan																																											
	⑥Cool/Auto/Fan/Heat																																											
	⑦Cool/Fan/Heat	○	○	○	○	○	○	○	○	○																																		
	⑧Cool/Dry/Fan/Heat											○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

● Step 3

1. Refer to the applicable technical document to confirm the functions that are available to a given indoor unit, and manually make individual settings one by one without referring to the table of unit models.
2. Make the settings for individually set items as necessary.

[Setting Procedures]

1. Press the SET button with a pointed but not sharp object.
Make sure that the remote controller display indicates that the unit is stopped.
(MODEL SELECT) will blink, and the model number (a three-digit figure) will be lit.
(Collective setting mode in Steps 1 and 2)
2. Refer to the Table of Individually Set Items and Buttons, and press the button that corresponds to an applicable individually set item only once.
The value to be changed will blink, and the setting number will be lit.
(When setting the pair number, the pair number will blink in the setting number window.)
3. Press the TEMP $\uparrow$ $\downarrow$ buttons to set the setting number.
Settings that correspond to each setting number will appear on the display.
* If an error is made, press the ON/OFF $\odot$ button to cancel all the settings for the individual settings and go back to Step 1 above (collective setting mode). Start over from the second step above.
* If the settings for the collectively set items are made individually, the model number that corresponds to the unit with the same patterns of functions will appear on the display.
4. Repeat Steps 2 and 3 above to make other settings.
5. Press the SET button to store these settings. The display will stay lit for three seconds and then go off.
* If the settings for collectively set items are made individually, the model number will automatically be changed.



<Table of Individually Set Items and Buttons> (Underlined values indicate initial settings.)

Setting Item	Button	Setting No.	
No. of fan speeds	FAN	01: 4 Speeds (Very Low, Low, Mid, High) 03: 2 Speeds (Low, High)	02: 3 Speeds (Low, Mid, High) 04: Fixed Speed
Louver swing	LOUVER	01: Disabled	02: Enabled
Vane	VANE	01: Adjustable vane/Auto swing enabled 02: Adjustable vane/Auto swing disabled 03: Fixed	
Operation mode	MODE	01: Heat pump model (Cool/Dry/Auto/Fan/Heat) 02: Cooling-only model (Cool/Dry/Fan) 03: New K-control Heat pump model (Cool/Dry/Auto/Heat) 04: Not to be selected 05: Cooling-only model (without Dry mode) (Cool/Fan) 06: Heat pump model (without Dry mode)(Cool/Auto/Fan/Heat) 07: Heat pump model (without Dry or Auto mode)(Cool/Fan/Heat) 08: K-control Heat pump model (Cool/Dry/Fan/Heat)	
Auto fan speed control	AUTO STOP	01: Disabled	02: Enabled
Preset temperature	h	01: Available	02: Unavailable
Display in Centigrade/ Fahrenheit	AUTO START	01: °C	02: °F
Pair No.	min.	0 ~ 9	
Model*1	CHECK	01: Standard (2 °F) 03: SLIM middle temperature 05: Low temperature	02: Standard (1 °F) 04: CITY MULTI middle temperature 06: RAC

*1 Fix this setting to "01" when sending signals to a signal receiving unit other than PAR-FA32MA.

<Display of individually set items>

Display will change with the change in the setting number.

■ No. of Fan speeds ①

- 01: 4 speeds 02: 3 speeds 03: 2 speeds 04: Fixed speed

■ Louver swing ②

- 01: Disabled
No display 02: Enabled

■ Vane ③

- 01: Adjustable vane/Auto swing enabled 02: Adjustable vane/Auto swing disabled 03: Fixed
No display

■ Operation mode ④

- 01: Heat pump model 02: Cooling-only model
- ⚙ COOL ⚙ COOL
💧 DRY 💧 DRY
🔄 AUTO 🔄 FAN
🌀 FAN
☀ HEAT 🌀 FAN

03: K-control heat pump model

- ⚙ COOL
💧 DRY
🔄 AUTO

- ☀ HEAT

05: Cooling-only model (without Dry mode)

- ⚙ COOL

- 🌀 FAN

07: Heat pump model (without Dry or Auto modes)

- ⚙ COOL

- 🌀 FAN
☀ HEAT

04: Not to be selected

06: Heat pump model (without Dry mode)

- ⚙ COOL
💧 DRY
🔄 AUTO
🌀 FAN

08: K-control heat pump model

- ⚙ COOL
💧 DRY
🌀 FAN
☀ HEAT

■ Auto fan speed control ⑤

- 01: Disabled 02: Enabled
No display 🌀

■ Preset temperature ⑥

- 01: Available 02: Unavailable
°F No display
°C

■ Temperature display in Centigrade and Fahrenheit (Displayed in the hour section of the clock) ⑦

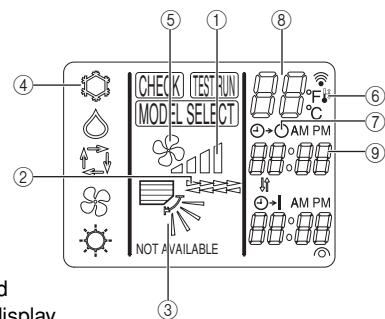
- 01: °C 02: °F
C: F:

■ Pair No. (Displayed in the preset temperature window) ⑧

- 0 ~ 9 0 ~ 9

■ Model (Displayed in the minute section of the clock) ⑨

- 01: Standard (2 °F) 02: Standard (1 °F) 03: SLIM middle temperature
- 04: CITY MULTI middle temperature 05: Low temperature 06: RAC



Unless this setting is set to "01," preset temperature can be changed in 1 °F increments when "temperature display in Fahrenheit" is selected.

By setting the model type, preset temperature range will be defined as in the table below.

Setting	Model		Centigrade/ Fahrenheit	Setting increments	Cool/Dry	Heat	Auto
01	Standard 2 °F model	Both SLIM and CITY MULTI models	Centigrade Fahrenheit	1 °C 2 °F	19 ~ 30 °C 67 ~ 87 °F	17 ~ 28 °C 63 ~ 83 °F	19 ~ 28 °C 67 ~ 83 °F
02	Standard 1 °F model	Both SLIM and CITY MULTI models	Centigrade Fahrenheit	1 °C 1 °F	19 ~ 30 °C 67 ~ 87 °F	17 ~ 28 °C 63 ~ 83 °F	19 ~ 28 °C 67 ~ 83 °F
03	Middle temperature model	SLIM model	Centigrade Fahrenheit	1 °C 1 °F	14 ~ 30 °C 57 ~ 87 °F	14 ~ 28 °C 57 ~ 83 °F	
04		CITY MULTI model	Centigrade Fahrenheit	1 °C 1 °F	14 ~ 30 °C 57 ~ 87 °F	17 ~ 28 °C 63 ~ 83 °F	
05	Low temperature model	Both SLIM and CITY MULTI models	Centigrade Fahrenheit	1 °C 1 °F	8 ~ 30 °C 46 ~ 87 °F	8 ~ 28 °C 46 ~ 83 °F	
06	RAC model	—	Centigrade Fahrenheit	1 °C 1 °F	16 ~ 31 °C 61 ~ 88 °F		

5 Pair Number Setting

- Pair number setting is required to pair up a certain signal receiving unit and a certain remote controller. This setting is not necessary unless assigning a particular indoor unit to a particular remote controller. (At factory shipment, the pair number on the signal receiving unit and wireless remote controller is set to "0.")
- When this setting needs to be made, make the settings on the signal receiving unit and the wireless remote controller as shown in the right table.

Pair number setting on the wireless remote controller	In the case of CITY MULTI system
	Set the pair number switch on the signal receiving unit.
0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9

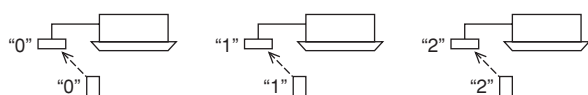
* Refer to the installation manual that comes with the signal receiving unit for details.

● Setting Example

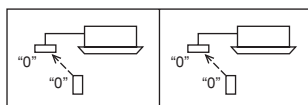
(1) Controlling multiple units in the same room

• Individual setting

Each unit can be controlled from separate remote controllers.



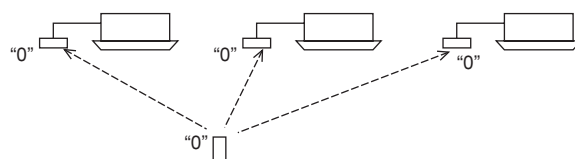
(2) Controlling multiple units in different rooms



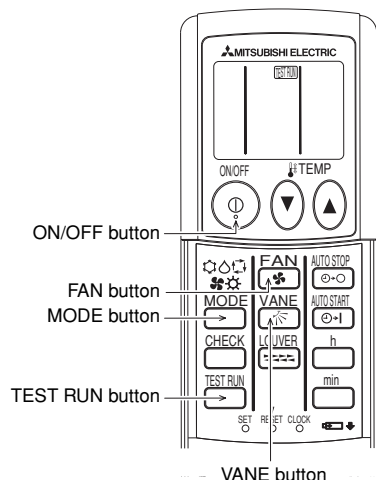
Set the signal receiving unit and wireless remote controller in the same room to the same number. (Use the factory setting as it is.)

• Single-controller setting

All indoor units are controlled from a single remote controller.



6 Test Run Method



[Setting Procedures]

- Turn on the power.
- Press the **TEST RUN** button twice consecutively.
- Press the **MODE** button.
- Press the **FAN** button.
- Press the **VANE** button.
- Confirm that the outdoor unit fan is in operation.
- Press the **ON/OFF** button or press the **TEST RUN** button twice consecutively.

* It will take three minutes after power on to start up the system.

- TEST RUN** and the operation setting will be displayed.
- Make sure that the remote controller display indicates that the unit is stopped.
- Operation mode will change to and from Cool and Heat.
Cool: Confirm that cool air blows out.
Heat: Confirm that warm air blows out (It takes a while for warm air to come out.)
- Confirm that the fan speed changes.
- Confirm the normal operation of auto-vane.
- Outdoor unit controls its capacity by controlling the rotation speed of the fan. Depending on the outside air temperature, the fan runs at low speed and stays at the speed as long as it has enough power. Even if the fan stops or rotates in the reverse direction, it is not a malfunction.
- Test run will be cancelled.

- 2-hour OFF timer will automatically stop the test run in two hours.

7 Operation Lamp Display and Buzzer

The following section details the operation lamp and the buzzer on the signal receiving unit.

<When receiving operation signals from the wireless remote controller>

Confirmation sound that indicates signal reception: Short beep

Operation lamp During operation: Lights off three times at 0.1-second intervals.
While the unit is stopped: Lights up three times at 0.1-second intervals.

<If a wireless remote controller is operated while the units are under centralized control>

Depending on the settings, when local control is prohibited by the centralized control system, ON/OFF, Mode selection, or Temperature setting buttons on the remote controller may be disabled.

Confirmation sound that indicates signal reception: Two staccato beeps

Operation lamp During operation: Lights off three times at 0.25-second intervals.
While the unit is stopped: Lights up three times at 0.25-second intervals.

<When the preset temperature is corrected (Applicable to signal receiving unit PAR-FA32MA only)>

If the model setting on the wireless remote controller does not match the actual model type of the indoor unit that is connected, the signal receiving unit will make correction on the preset temperature for the indoor unit. When this happens, signal receiving unit will perform the following actions.

Confirmation sound that indicates signal reception: Two staccato beeps

Operation lamp During operation: Lights off three times at 0.25-second intervals.
While the unit is stopped: Lights up three times at 0.25-second intervals.

Conditions	Action of the signal receiving unit
Reception of a signal from the wireless remote controller that corresponds to a preset temperature that is outside of the setting range	The temperature setting will be corrected to the maximum or minimum settable temperature and set to the indoor unit. Example: When the setting range for the cooling operation of the indoor unit is between 19 °C and 30 °C and the signal to set the cooling temperature to 17 °C is received from the wireless remote controller. (Action) The signal receiving unit will read the temperature as 19 °C and set it to the indoor unit.)
Reception of a signal from the wireless remote controller that corresponds to an even numbered temperature setting in Fahrenheit when the connected indoor unit is not compatible with temperature setting in 1 °F increments.	Even-numbered temperatures in Fahrenheit will be changed to odd-numbered temperatures in Fahrenheit and set to the indoor unit. Example: Reception of a signal that corresponds to 78 °F when the connected indoor unit is not compatible with temperature setting in 1 °F increments. (Action) The signal receiving unit will read 78 °F as 77 °F and set it to the indoor unit.)

<In case of a problem>
 Operation lamp will blink, indicating a problem with the air conditioner. When this happens, turn off the power to the air conditioner, and consult your dealer. Do not attempt to repair the unit by yourself.

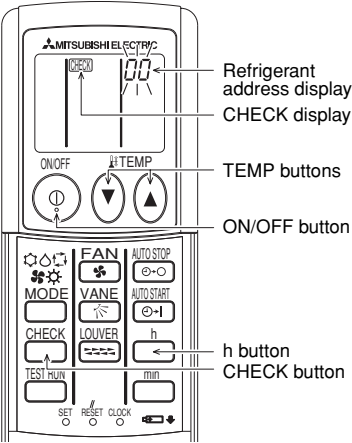
<Making a self-diagnosis>
 Refer to section 8 "Self-diagnosis."

<Operating the emergency operation button on the signal receiving unit>
 Confirmation sound that indicates signal reception: None
 Operation lamp During operation: Unlit
 While the unit is stopped: Lit
 When local control is prohibited, remote controller will be disabled.

8

Self-Diagnosis

The following procedures are applicable to CITY MULTI air conditioners.
 (The following procedures cannot be performed when the unit is in error.)



- [Operating Procedures]**

 - Press the button twice.
 - Press the TEMP buttons.
 - Point the remote controller to the signal receiving unit, and press the button.
 - Point the remote controller to the signal receiving unit, and press the ON/OFF button.
- * will be lit, and refrigerant address "00" will blink.
 - Make sure that the remote controller display indicates that the unit is stopped.
 - Select the refrigerant address of the indoor unit to be self-diagnosed.
 - When a problem with the connected air conditioner is detected, intermittent beeping sound will be heard from the signal receiving unit, and a check code will be output by the blinking of the operation lamp.
 - Check mode will be cancelled.

<Output of Check Codes>

Error content	Buzzer Sound	Operation Lamp
Indoor unit error	Beep × n times	One second × n times
Errors unrelated to indoor unit	Two short beeps × n times	(0.4 second +0.4 second) × n times
No error history	No output	Unlit
No applicable unit	Three staccato beeps	Unlit

NOTES:
 Refer to the instruction manual that comes with the air conditioner for the details of error codes.

Number(n) of beeps and blinking of operation lamp
 Signal receiving unit will beep and the operation lamp will blink certain times, depending on the error code that is received from the indoor unit.

Number of beeps/blinking	CITY MULTI Error Code	Error Content
8	0000 ~ 0999	Integration or combustion system error
1	1000 ~ 1999	Refrigerant system error
2	2000 ~ 2999	Water system error
3	3000 ~ 3999	Air system error
4	4000 ~ 4999	Unit, electrical error
5	5000 ~ 5999	Sensor error
6	6000 ~ 6999	Communication system error
7	7000 ~ 7999	System error
9	8000 and above	No errors

This product is designed and intended for use in a residential, commercial or light-industrial environment.
 The product at hand is based on the following EU regulations:
 • Electromagnetic Compatibility Directive 89/336/EEC