MITSUBISHI ELECTRIC

CITY MULTI Control System

and Mitsubishi Mr. SLIM Air Conditioners

MA Deluxe Remote Controller

PAR-21MAA

Installation Manual

This instruction manual describes how to install the MA Remote Controller for Mitsubishi Building Air Conditioning System, direct expansion type CITY MULTI air conditioner indoor units ("-A" type and later), and Mitsubishi Mr. SLIM packaged air conditioners. Please read this manual thoroughly and install the remote controller accordingly. For information on how to wire and install the air conditioning units, refer to the installation manual. After the installation, hand over this manual to users.

1 | Safety Precautions

- Read these Safety Precautions and perform installation work accordingly. • The following two symbols are used to dangers that may be caused by incorrect use and their degree
- NARNING This symbol denotes what could lead to serious injury or death if you misuse the PAR-21MAA.
- CAUTION This symbol denotes what could lead to a personal injury or damage to your property if you misuse the PAR-21MAA.
- After reading this installation manual, give it and the indoor unit installation manual to the end user. • The end user should keep this manual and the indoor unit installation manual in a place where he or she can see it at anytime. When someone moves
- or repairs the PAR-21MAA, make sure that this manual is forwarded to the end 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.	Ensure that installation work is done correctly following this installation manual. Any deficiency caused by installation may result in an electric shock or fire.			
Install in a place which is strong enough to withstand the weight of the PAR-21MAA. Any lack of strength may cause the PAR-21MAA to fall down, resulting in personal injury.	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.			
Firmly connect the wiring using the specified cables. Carefully check that the cables do not exert any force on the terminals. Improper wiring connections may produce heat and possibly a fire.	Do not move and re-install the PAR-21MAA yourself. Any deficiency caused by installation may result in an electric shock or fire. Ask your distributor or special vendor for moving and installation.			
Never modify or repair the PAR-21MAA by yourself. Any deficiency caused by your modification or repair may result in an electric shock or fire. Consult with your dealer about repairs.	To dispose of this product, consult your dealer.			

	shock or fire. Consult with your dealer about repairs.					
	<u> </u>	łU.	TION			
Flammabian explos Do not us Using in a gas may conent pa When ins facility, te Inverters, ment, and ler to mal communic or interfer Wire so t Tension m Complete	Do not install in any place exposed to flammable gas leakage. Flammable gases accumulated around the body of PAR-21MAA may cause an explosion.		Do not apply AC100V or AC200V to the remote controller. The max voltage that can be applied to the remote controller is 12V. The remote controller may be damaged or may generate heat and ca			
	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.		fire. Do not install in any steamy place such a bathroom or kitchen. Avoid any place where moisture is condensed into dew. Doing so may of an electric shock or a malfunction.			
	When installing the remote controller in a hospital or communication facility, take ample countermeasures against noise. Inverters, emergency power supply generators, high-frequency medical equipment, and wireless communication equipment can cause the remote controller to malfunction or to fail. Radiation from the remote controller may effect communication equipment and prevent medial operations on the human body or interfere with image transmission and cause noise. Wire so that it does not receive any tension. Tension may cause wire breakage, heating or fire.		Do not install in any place where acidic or alkaline solution or s spray are often used. Doing so may cause an electric shock or malfunction.			
			Use standard wires in compliance with the current capacity. A failure to this may result in an electric leakage, heating or fire.			
] 	Do not touch any control button with your wet hands. Doing so may cause an electric shock or a malfunction.			
		[Do not wash with water. Doing so may cause an electric shock or a malfunction.			
	mpletely seal the wire lead-in port with putty etc. y dew, moisture, insects entering the unit may cause an electric shock or a lifunction.		Do not press any control button using a sharp object. Doing so may cause an electric shock or a malfunction.			
	Do not install in any place at a temperature of more than 40°C or less than 0°C or exposed to direct sunlight. Doing so may cause deformation or malfunction.					

2 Confirming the Supplied Parts

Confirm that the box includes the following parts, in addition to this installation manual

- 1. Remote controller (cover, body) 2. Cross recessed pan head screw (M4 × 30)...
- 3. Wood screw (4.1 \times 16, used for directly hooking to the wall) ..
- 4. Caution label (in 12 languages)
- *1 For the remote control, obtain a 2-core cable between 0.3 and 1.25 mm² at the site. *2 PAC-YT32PTA cannot be connected.

088888 Remote controller cover Remote controller body

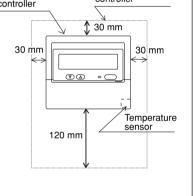
3 How To Install

1. Choose a place in which to install the remote controller (switch box).

Be sure to observe the following steps:

(1) Temperature sensors are provided with both the remote controller and the indoor units. When using the remote controller temperature sensor, the master remote controller detects the room temperature. Install controller the master remote controller in a place where the average room temperature can be detected and which is not affected by any heat source from direct sunlight or air blown from air conditioning units.

CAUTION The place where (when) the difference between the room temperature and the wall temperature is large, the wall temperature that is affected by the temperature of the wall on which the remote controller is installed is measured. Therefore, the difference between the room temperature and the measured wall temperature may be large. When the installation site is one of the followings, use of a temperature sensor for an indoor unit is recommended. When the room is not well-ventilated and the air does not reach the wall on which the remote controller is installed. When the difference between the temperature of the wall on which the remote controller is installed and the room temperature. When the backside of the wall on which the remote controller is installed is exposed to the outdoor air. When the temperature changes drastically, the temperature may not be measured accu-

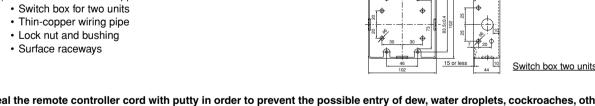


When a remote controller temperature sensor is used in a place which is likely to be affected by the wall on which the remote controller is installed, use of an optional spacer (Model: PAC-YT83RS) for a remote controller is recommended (For how to set the main and sub remote controller, see step (1) "Remote controller" [4]-3. (1) in section (6 | Function Selection)

For how to set the temperature sensor, see step (2) "Unit function selection" in section (6 Function Selection (2) When installing on either the switch box or the wall, allow extra space around the remote controller as shown in the figure at the right.

NOTE: Make sure that there is no wiring or wire near the remote controller sensor. If there is, the remote controller cannot detect the exact room temperature.

- (3) Parts which must be supplied on site. · Switch box for two units
- Thin-copper wiring pipe Lock nut and bushing

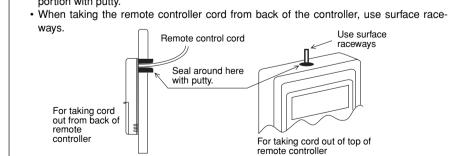


2. Seal the remote controller cord with putty in order to prevent the possible entry of dew, water droplets, cockroaches, other insects, etc. When using the switch box When installing directly on the wall When installing on the switch box, seal When opening a hole using a drill for the remote controller cord (or when taking the cord

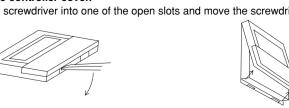
the connections between the switch box and wiring pipe with putty.

Remote control

out of the back of the remote controller), seal the hole with putty. • When routing the cord via the portion cut off from the upper cover, similarly seal that portion with putty. Lock nut



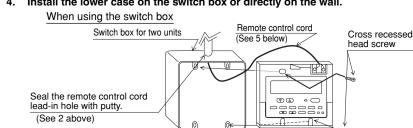
3. Remove the remote controller cover Insert a minus screwdriver into one of the open slots and move the screwdriver in the arrow direction.

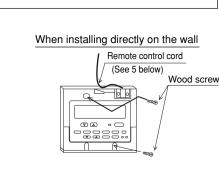


CAUTION Do not turn the screwdriver in the slot. Doing so may damage the slot.

with putty.

4. Install the lower case on the switch box or directly on the wall





↑ CAUTION Do not tighten the screws too tight. Doing so may deform or crack the lower cover NOTE: - Choose a flat plane for installation. Fasten the switch box at more than two places when installing directly on the wall. - When reinstalling on the wall, fasten securely using anchors 5. Connect the remote control cord to the remote controller terminal block To indoor unit MA remote erminal block To connect the remote control cord There is no polarity. peel 6mm of coating CAUTION Do not use crimp terminals to connect to remote controller terminal blocks. The terminals may contact the board and cause trouble or contact the cover and damage the cover. ACAUTION Prevent remote cord chips from getting into the remote controller. Electric shock or malfunction may result. 6. Wiring hole for installing directly on the wall (or open wiring) • Cut off the shaded area from the upper cover using a knife, nippers, etc. • Take out the remote control cord connected to the terminal block via this portion. 7. Install the cover to the remote controller. To remove the cover insert a minus screwdriver into one of the open slots, and move it in the direction of the arrow shown in the figure. First, hook the cover to the two upper claws and then fit it to the remote controller CAUTION Press the cover until it snaps shut. If not, it may fall off. | \(\frac{1}{2}\) CAUTION Do not into turn the screwdriver in the slot. Doing so may damage the slot. NOTE: A protection sheet is stuck to the operation section. Peel off this protection sheet before use. 'TEST RUN" and "OPERATION MODE" are 4 Test Run 1. Before making a test run, refer to the "Test Run" section of the Timer stops test run after two hours. indoor unit installation manual. 2. Press the [TEST] button twice successively within three seconds. Piping temperature display Stop test run by pressing the [① ON/OFF] button. 3. Stop the test run by pressing the [① ON/OFF] button. 4. If trouble occurred during the test run, refer to the "Test Run" sec- During test run, the RUN lamp remains on. tion of the indoor unit installation manual. [TEST] button Make this setting only when interlocked operation with LOSSNAY is necessary with CITY MULTI 5 | Ventilation Setting (This setting cannot be made with Mr. SLIM air conditioners.) * When the upper controller is connected, make the setting using the upper controller. NOTE: When using LOSSNAY units in conjunction, interlock the addresses of all indoor units within the group and address of LOSSNAY units. Perform this operation when you want to register the LOSSNAY, confirm the registered units, or delete the registered units controlled by the remote controller. The following uses indoor unit address 05 and LOSSNAY address 30 as an example to describe the setting procedure. 1) Stop the air conditioner using the remote controller [①ON/OFF] button. If the OFF display shown below does not appear at this time, step ② cannot be performed. ② Press and hold down the [FILTER] and [====] buttons at the same time for two seconds. The display shown below appears. The remote controller confirms the registered LOSSNAY addresses of the currently connected indoor units. SETTING OF CENTILATION --3 Registration confirmation result - The indoor unit address and registered LOSSNAY address are displayed alternately. - When LOSSNAY are not registered

④ If registration is unnecessary, end registration by pressing and holding down the [FILTER] and [====] buttons at the same time for two seconds. If a new LOSSNAY must be registered, go to step 1. Registration procedure. If you want to confirm another LOSSNAY, go to step 2. Confirmation procedure. To delete a registered LOSSNAY, go to step 3. Deletion procedure. < 1. Registration procedure > ⑤ Set the address of the LOSSNAY and the indoor unit connected by the remote controller you want to register using the [
☐ TEMP. (▽) and (△)] buttons. (01 to 50)

(®) Set the address of the LOSSNAY you want to register using the $[\bigcirc CLOCK(\bigcirc)$ and $(\triangle)]$ buttons. (01 to 50)

SETTING OF 30

SETTING OF Registration error display

SETTING OF

® Set the address of the indoor unit connected by the remote controller whose LOSSNAY you want to confirm using the [
☐ TEMP. (▽) and (△)].

SETTING OF VENTILATION

 Press the [⊕ MENU] button and confirm 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.

SETTING OF VENTILATION

Registered indoor unit address does not exist.

< 3. Deletion procedure > Use this procedure when you want to delete registration of indoor units connected by the remote controller and LOSSNAY. (1) Confirm (see 2. Confirmation procedure) the LOSSNAY you want to delete and display the indoor units and LOSSNAY confirmation results.

Indoor unit address and "--" and registered LOSSNAY address and "--" are alternately displayed.

Deletion error display

Indoor unit address LOSSNAY address Press the [TEST] button, and register the set indoor unit address and LOSSNAY address.

The indoor unit address and "IC" and LOSSNAY address and "LC" are alternately displayed.

If the address was not correctly registered, the indoor unit address and registered LOSSNAY address are alternately displayed. Cannot be registered because the registered indoor unit or LOSSNAY does not exist.

Cannot be registered because another LOSSNAY was registered at the registered indoor unit.

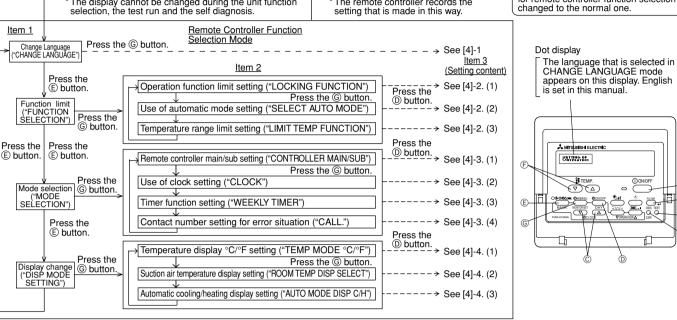
Confirmation end display (When LOSSNAY is not connected.)

SETTING OF VENTILATION

⊕ Press the [⊕ON/OFF] button twice and delete registration of the LOSSNAY registered at the set indoor unit.

3

Item 1	Item 2		Setting content)			
. Change Language 'CHANGE LANGUAGE")	Language setting to display	Display in multiple languages is possible	е.			
		CTION") • Setting the range of operation limit (ope	Setting the range of operation limit (operation lock)			
FUNCTION SELEC-	(2) Use of automatic mode setting ("SELECT AUTO MODE")	Setting the use or non-use of "automati	c" operation mode			
ON")	(3) Temperature range limit setting ("LIMIT TEMP FUNCTION	N") • Setting the temperature adjustable rang	ge (maximum, minimum)			
Mode selection	(1) Remote controller main/sub setting ("CONTROLLER MAIN	N/SUB") • Selecting main or sub remote controller				
IODE SELECTION")		* When two remote controllers are connect	cted to one group, one controller must be set to sub.			
	(2) Use of clock setting ("CLOCK")	Setting the use or non-use of clock fund	ction			
	(3) Timer function setting ("WEEKLY TIMER")	Setting the timer type	Setting the timer type			
	(4) Contact number setting for error situation ("CALL.")	Contact number display in case of error	Contact number display in case of error			
(, , , , , , , , , , , , , , , , , , ,		 Setting the telephone number 	Setting the telephone number			
4. Display change (1) Temperature display °C/°F setting ("TEMP MODE °C/°F")		Setting the temperature unit (°C or °F) to the setting the temperature unit (°C or °F) to the setting the set	Setting the temperature unit (°C or °F) to display			
ISP MODE SETTING"	(2) Suction air temperature display setting ("ROOM TEMP DISP SE	ELECT") • Setting the use or non-use of the displa	y of indoor (suction) air temperature			
(3) Automatic cooling/heating display setting ("AUTO MODE DISP C/H")		SP C/H") • Setting the use or non-use of the display with automatic mode	Setting the use or non-use of the display of "Cooling" or "Heating" display during operation with automatic mode			
	pwchart] ioner to start remote controller function selection (in item3) \rightarrow [5] Setting completed. \rightarrow [6] Change		elect from item2. $ ightarrow$ [4] Make the setting			
Normal display (I the air condition	Display when s not running)					
(Hold down the © button and press the © button for two		(Hold down the (E) button and press the (D) button for two seconds.)	NOTE Timer operation stops when the display			
	OS)		for remote controller function selection is changed to the normal one.			
secon * The	display cannot be changed during the unit function stion, the test run and the self diagnosis.	*The remote controller records the setting that is made in this way.				
secon * The select	display cannot be changed during the unit function stion, the test run and the self diagnosis. Remote Controller Function	setting that is made in this way.	changed to the normal one.			
* The select	display cannot be changed during the unit function tion, the test run and the self diagnosis. Remote Controller Function	setting that is made in this way	changed to the normal one. Dot display			
secon * The select	display cannot be changed during the unit function stion, the test run and the self diagnosis. Remote Controller Function	setting that is made in this way. → See [4]-1 ltem 3	Changed to the normal one. Dot display The language that is selected in			
secon * The select	display cannot be changed during the unit function tion, the test run and the self diagnosis. Remote Controller Function Selection Mode	setting that is made in this way. → See [4]-1 tem 3 (Setting content)	Changed to the normal one. Dot display The language that is selected in			



[Detailed setting] [4] -1. CHANGE LANGUAGE setting The language that appears on the dot display can be selected. Press the [⊕MENU] button to change the language. 1 Japanese (JP), 2 English (GB), 3 German (D), 4 Spanish (E), ⑤ Russian (RU), ⑥ Italian (I), ⑦ Chinese (CH), ⑧ French (F) [4] -2. Function limit

 (1) Operation function limit setting (operation lock)
 To switch the setting, press the [⊕ON/OFF] button.
 ① no1: Operation lock setting is made on all buttons other than the [ON/OFF] button 2) no2: Operation lock setting is made on all buttons.

③ OFF (Initial setting value): Operation lock setting is not made. * To make the operation lock setting valid on the normal screen, it is necessary to press buttons (Press and hold down the [FILTER] and [①ON/OFF] buttons at the same time for two seconds.) on the normal screen after the above setting is made. (2) Use of automatic mode setting

When the remote controller is connected to the unit that has automatic operation mode, the following settings can be made. To switch the setting, press the [②ON/OFF] button. ① ON (Initial setting value): The automatic mode is displayed when the operation mode is selected. ② OFF

To switch the setting, press the [ON/OFF] button.

① ON: The clock function can be used.

② OFF: The clock function cannot be used.

(2) Use of clock setting

(3) Timer function setting

the followings.).

Automatic mode: Lower limit: 19°C ~ 28°C Upper limit: 28°C ~ 19°C The settable range varies depending on the unit to connect (Mr. Slim units, Free-plan units, and intermediate temperature units) : The automatic mode is not displayed when the operation mode is selected.

[4] -3. Mode selection setting (1) Remote controller main/sub setting To switch the setting, press the [ON/OFF] button. 1) Main: The controller will be the main controller. ② Sub: The controller will be the sub controller CALL_: The contact number can be set when the display is as shown on the left.

To set the contact numbers, follow the following procedures. Move the flashing cursor to set numbers. Press the [\Re TEMP. (∇) and To switch the setting, press the [ON/OFF] button (Choose one of (∇) and (\triangle)] button to set the numbers. ① WEEKLY TIMER (initial setting on MA deluxe): [4] -4. Display change setting The weekly timer can be used.

Setting the contact numbers

(3) Temperature range limit setting

1 LIMIT TEMP COOL MODE

② LIMIT TEMP HEAT MODE

3 LIMIT TEMP AUTO MODE:

Settable range

After this setting is made, the temperature can be changed within the set range.

When the setting, other than OFF, is made, the temperature range limit setting

on cooling, heating and automatic mode is made at the same time. However,

the range cannot be limited when the set temperature range has not changed.

button. The selected setting will flash and the temperature can be set.

Cooling/Dry mode: Lower limit: 19°C ~ 30°C Upper limit: 30°C ~ 19°C

Heating mode: Lower limit: 17°C ~ 28°C Upper limit: 28°C ~ 17°C

To increase or decrease the temperature, press the [\Re TEMP (∇) or (\triangle)] button.

To switch the upper limit setting and the lower limit setting, press the [• 1]

To switch the setting, press the [⊕ON/OFF] button.

The temperature range can be changed on cooling/dry mode.

The temperature range can be changed on heating mode.

The temperature range can be changed on automatic mode.

4) OFF (initial setting): The temperature range limit is not active.

② AUTO OFF TIMER: The auto off timer can be used. ③ SIMPLE TIMER (Default setting on MA smooth): The simple timer can be used. 4) TIMER MODE OFF: The timer mode cannot be used. When the use of clock setting is OFF, the "WEEKLY TIMER" cannot be ② OFF: The suction air temperature is not displayed.

(4) Contact number setting for error situation To switch the setting, press the [ON/OFF] button. ① CALL OFF: The set contact numbers are not displayed in case of error. ② CALL **** *** **** : The set contact numbers are displayed in case of error.

(1) Ending function display (Press buttons (2) and (3) simultaneously.)

 (\triangle)] button to move the cursor to the right (left). Press the [\bigcirc CLOCK (1) Temperature display °C/°F setting To switch the setting, press the [ON/OFF] button. 1 °C: The temperature unit °C is used. ② °F: The temperature unit °F is used. (2) Suction air temperature display setting To switch the setting, press the [ON/OFF] button. ① ON: The suction air temperature is displayed.

To switch the setting, press the [ON/OFF] button.

under the automatic mode is running.

① ON : One of "Automatic cooling" and "Automatic heating" is displayed

(3) Automatic cooling/heating display setting

② OFF: Only "Automatic" is displayed under the automatic mode. (2) Unit Function Selection Perform only when change is necessary with Mr. SLIM air conditioner. (Cannot be performed with CITY MULTI control system.)

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. Table 1. 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. Setting No. Check Object unit address No. Settings

Not available Not Supported Not Supporte	1 dilotion	Octungs	111000 110.	Cotting 110.	Onlook	Object ant address 110.
Indoor temperature detecting Indoor unit operating average Set by indoor units remote controller O2	Power failure automatic	Not available	01	1		Unit address No. 00
Set by indoor unit's remote controller 02	recovery	Available (Approximate 4 minutes wait-period after power is restored.)	01	2		
Set by indoor units remote controller 02	Indoor temperature	Indoor unit operating average	02	1		
No. of air outlets No. of air outlets No. of air outlets No. of air outlets Up/down vane setting Unit address (No. 2 set) Unit address (No. 01 to 04 or all in-door unit is equipped with outdoor-air intake) O3		Set by indoor unit's remote controller	02	2		
LOSSNAY connectivity Supported (indoor unit is not equipped with outdoor-air intake) 03 2	detecting	Remote controller's internal sensor	02	3		These items are set for all in-
Supported (indoor unit is equipped with outdoor-air intake)			03	1		door units.
AUTO mode	LOSSNAY connectivity	Supported (indoor unit is not equipped with outdoor-air intake)	03	2		
Energy saving cycle automatically disabled 05		Supported (indoor unit is equipped with outdoor-air intake)	03	3		
Energy saving cycle automatically disabled 05	ALITO mode		05	1		
Filter sign 2500 Hr 077 2	Ao To Mode		05	2		
No filter sign indicator		100.11	07	1		Unit address No. 01 to 04 or
Pan speed Standard 08	Filter sign		07	2		AL
Standard 08 2		No filter sign indicator	07	3		
High ceiling 08 3		Quiet	08	1		
No. of air outlets	Fan speed	Standard	08	2		
No. of air outlets 3 directions 09 2		High ceiling	08	3		
10 1 1 1 1 1 1 1 1 1	No of air outlets	4 directions	09	1		
Installed options	140. Of all outlets	3 directions	09	2		
Supported 10 2 Indoor unit.	Installed options	Not supported	10	1		
Equipped with vanes (No. 1 set) 11 2	mistalied options		10	2		indoor unit.
Equipped with vanes (No. 2 set)		No vanes	11	1		
Energy saving air flow Disabled Enabled 12 1 Humidifier Not supported 13 1	Up/down vane setting	Equipped with vanes (No. 1 set)	11	2		
Energy saving air flow Enabled 12 2 Not supported 13 1			11	3		
Not supported 13 1	Energy saving air flow		12	1		
Humidition	Lifergy saving all now		12	2		
Supported 13 2	Humidifier	- ''	13	1		
	Tramfallel	Supported	13	2		
	_	<u> </u>	<u> </u>			<u> </u>

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

[Function selection flow] First grasp the function selection flow. The following describes setting of " (For the actual setting procedure, see [Setting procedure] ① to ⑩.)	Room temperature detection posi	tion" of Table 1 as an example.
① Check the function selection set contents.		
② Switch to the FUNCTION SELECTION mode. (Press		★ MITSUBISHI ELECTRIC
③ Refrigerant address specification → 00 (Outdoor unit specification) (Unnecessary for single refrigerant system.)		B TEMP. ①ON/OFF
 ④ Unit address No. specification (Buttons © and ® operation) → 00 (Indoor unit specification)	YES	OFOCOME OMENU CONOFF THE STATES
(Specified indoor unit Fan operation)	NO Change refrigerant	PAR-21MAA BCLOOK VORENITONIA CLER
⑥ Mode No. Selection → 02 (Room temperature detection position)	address and unit address No.?	
		© b
Register (Press button ©.)	 9 -	
End? NO		

[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. Set the remote controller to Off. ③ Set the outdoor unit refrigerant address No. Press and hold down the A [FILTER] and B [TEST] buttons at the same time for two seconds or longer.

When the \bigcirc [\bigcirc CLOCK (\bigtriangledown) and (\triangle)] buttons are pressed, the refrigerant address No. decreases and increases between 00 and 15. Set it to the "FUNCTION SELECTION" blinks for a while, then the remote conrefrigerant address No. whose function you want to select. troller display changes to the display shown below. (This step is unnecessary for single refrigerant system.) Refrigerant address FUNCTION - DD -_

------* If the remote controller enters the OFF state after the "FUNCTION SELECTION" 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 ① [ON/OFF] button. The unit address No. When the \bigcirc [\bigcirc CLOCK (\bigtriangledown) and (\triangle)] buttons are pressed, the unit addisplay "--" flashes. dress No. changes in $00 \rightarrow 01 \rightarrow 02 \rightarrow 03 \rightarrow 04 \rightarrow AL$ order. Set it to the unit address No. of the indoor unit whose functions you want to set. SELECTION DD-DD-Unit address No. display FUNCTION DO TO ---* When setting mode 1 to 3, set the unit address No. to "00".

* When setting modes 7 to 11: - 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

☐ When registered using the ⑤ [□♣≎৹∞] button, the registered indoor Press the (E) [□・・・・○∞] button. The refrigerant address and unit adunit begins fan operation. When you want to know the location of the dress No. are registered indoor units of the unit address No. whose functions were selected, check After a while, the mode No. display "--" flashes. here. When the unit address No. is 00 or AL, all the indoor units of the FUNCTION 00-00selected refrigerant address perform the fan operation. Mode No. display -Ex) When refrigerant address 00, unit address No. = 02 registered <u>- - - </u> Refrigerant address 00 * When " 88 " flashes at the room temperature display, the selected re-Outdoor unit frigerant 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 ad-No. 01 No. 02 No. 03 dress No. by repeating steps 2 and 3. Registration Remote Controller 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 rotary switches. 6 Mode No. selection Select the mode No. you want to set with the \bigcirc [\bigcirc TEMP. \bigcirc and \bigcirc buttons. (Only the settable mode numbers can be selected.) FUNCTION 00-00-

— Mode No. 02 = Room temperature detection position

 Select the setting contents of the selected mode. When the 6 [9MENU] button is pressed, the current setting No. Select the setting No. using the F [1 TEMP. (\bigtriangledown) and (\triangle)] buttons. flashes. Use this to check the currently set contents. FUNCTION 00 00 Setting No. display

Setting No. 1 = Simultaneous operation indoor units balance ® The contents set at steps 3 to 7 are registered. When the (E) [□♣≎◊∞∞] 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.

FUNCTION 00 00

023 * When "——" appears at the mode No. and setting No. displays and " 🛭 🖁 " flashes at the room temperature display, communication is probably abnormal. Make sure there are no noise sources near the transmission line. To select more functions, repeat steps ③ to ⑧.

Press and hold down the A [FILTER] and B [TEST] 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 a \bigcirc or other mark in the appropriate check field of Table 1.

7 | Self check Retrieve the error history of each unit using the remote controller. Switch to the self check mode. ② Set the address or refrigerant address No. you want to self check. When the oxin Gamma [CHECK] button is pressed twice successively When the \bigcirc [\oiint TEMP. (\bigtriangledown) and (\triangle)] buttons are pressed, the address

decreases and increases between 01 and 50 or 00 and 15. Set it to the within three seconds, the display shown below appears. address No. or refrigerant address No. you want to self check. SELFCHECK SELFCHECK Self check address or self check refrigerant address Approximately three seconds after the change operation, the self check refrigerant address changes from flashing to a steady light and self check begins.

③ Self check result display <Error history> (For the contents of the error code, refer to the indoor unit installation manual or service handbook.) Address 3 digits or unit address No. 2 digits Error code 4 digits or error code 2 digits <When opposite side does not exist> SELFCHECK FF FF

④ Error history reset The error history is displayed in ③ Self check results display. SELFCHECK - P7-SELF CHECK When the ① [① MENU] button is pressed twice successively within three When the error history was reset, the display shown below appears. seconds, the self check address or refrigerant address flashes. When error history reset failed, the error contents are displayed again. SELF CHECK ERROR CODE SELF CHECK

There are the following two ways of resetting self check. Press the \oplus [CHECK] button twice successively within three seconds \rightarrow Resets self check and returns to the state before self check. Press the \bigcirc [\bigcirc ON/OFF] button \rightarrow Self check resets and indoor units stop. (When operation is prohibited, this operation is ineffective.)

(5) Self check reset

When the air conditioner cannot be controlled from the remote controller, 8 Remote Controller Check use this function to check the remote controller. 1) First check the power mark. When normal voltage (DC12V) is not applied to the remote controlle the power mark goes off. When the power mark is off, check the remote controller wiring and

the indoor unit. ② Switch to the remote controller check mode When the (A) [FILTER] button is pressed, remote controller check begins. When the (H) [CHECK] button is held down for five seconds or longer, the display shown below appears.

Remote controller check resul When remote controller is normal (Error display 1) "NG" flashes → Remote controller send/receive circuit abnormal SELFCHECK

Since there is no problem at the remote controller, check for other causes. Remote controller switching is necessary. When the problem is other than the checked remote controller (Error code 2) "E3" "6833" "6832" flash → Cannot send (Error display 3) "ERC" and data error count are displayed \rightarrow Data error generation SELF CHECK - F 3-SELF CHECK ERC

There is noise on the transmission line, or the indoor unit or another | "Data error count" is the difference between the number of bits of remote controller remote controller is faulty. Check the transmission line and the other | 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

When the (H) [CHECK] button is held down for five seconds or longer, remote controller check resets and the "PLEASE WAIT" and RUN lamp flash. Approximately 30 seconds later, the remote controller returns to the state before remote controller check.

