

MA Remote Controller

CITY MULTI Control System and Mitsubishi Mr. SLIM Air Conditioners

CE

Installation Manual

PAR-32MAA

For distribution to dealers and contractors

This installation manual describes how to install the MA Remote Controller for use with 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 be sure to read this installation manual and the files on the CD-ROM that is supplied with the Remote Controller before proceeding with the installation. Failure to follow the instructions may result in equipment damage.

For information not contained in this booklet, please refer to the files on the CD-ROM that is supplied with the Remote Controller. If the files are not readable, please contact your dealer.

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

· Thoroughly read the following safety precautions prior to installation.

· Observe these precautions carefully to ensure safety.

NING Indicates a risk of death or serious injury.	
Indicates a risk of serious injury or structural damage.	

• After reading this manual, pass it on to the end user to retain for future reference.

 Keep this manual for future reference and refer to it as necessary. This manual should be made available to those who repair or relocate the controller. Make sure that the manual is passed on to any future users.

All electric work must be performed by qualified personnel.

General precautions

A WARNING

Do not install the unit in a place where large amounts of oil, steam, organic solvents, or corrosive gases, such as sulfuric gas, are present or where acidic/alkaline solutions or sprays are used frequently. These substances can compromise the performance of the unit or cause certain components of the unit to corrode, which can result in electric shock, malfunctions, smoke, or fire.

To reduce the risk of shorting, current leakage, electric shock, malfunctions, smoke, or fire, do not wash the controller with water or any other liquid.

To reduce the risk of electric shock, malfunctions, smoke or fire, do not operate the switches/buttons or touch other electrical parts with wet hands.

To reduce the risk of fire or explosion, do not place flammable materials or use flammable sprays around the controller.

To reduce the risk of damage to the controller, do not directly spray insecticide or other flammable sprays on the controller.

To reduce the risk of electric shock or malfunctions, do not touch the touch panel, switches, or buttons with a pointy or sharp object. To reduce the risk of injury or electric shock, before spraying a chemical around the controller, stop the operation and cover the controller.

To reduce the risk of injury or electric shock, stop the operation and switch off the power supply before cleaning, maintaining, or inspecting the controller.

Properly install all required covers to keep moisture and dust out of the controller. Dust accumulation and water can cause electric shock, smoke, or fire.

To reduce the risk of injury, keep children away while installing, inspecting, or repairing the controller.

To reduce the risk of injury and electric shock, avoid contact with sharp edges of certain parts.

To avoid injury from broken glass, do not apply excessive force on the glass parts.

To reduce the risk of injury, wear protective gear when working on the controller.

Do not install the controller where there is a risk of leaking flammable gas. If flammable gas accumulates around the controller, it may ignite and cause a fire or explosion.

Properly dispose of the packing materials. Plastic bags pose suffocation hazard to children.

To reduce the risk of shorting, current leakage, electric shock, malfunctions, smoke, or fire, do not install the controller in a place exposed to water or in a condensing environment.

Controller must be installed by qualified personnel according to the instructions detailed in the Installation Manual. Improper installation may result in electric shock or fire.

Take appropriate safety measures against earthquakes to prevent the controller from causing injury.

To prevent injury, install the controller on a flat surface strong enough to support its weight.

When attaching the cover and 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.

Precautions during wiring

To reduce the risk of damage to the controller, malfunctions, smoke, or fire, do not connect the power cable to the signal terminal block.

Properly secure the cables in place and provide adequate slack in the cables so as not to stress the terminals.Improperly connected cables may break, overheat, and cause smoke or fire.

To reduce the risk of injury or electric shock, switch off the main power before performing electrical work.

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

To reduce the risk of shorting, current leakage, electric shock, or malfunctions, keep the cables out of contact with controller edges.

according to the local regulations, standards, and the instructions detailed in the Installation Manual. Capacity shortage to the power supply circuit or improper installation may result in malfunction, electric shock, smoke, or fire.

All electric work must be performed by a qualified electrician

To reduce the risk of current leakage, overheating, smoke, or fire, use properly rated cables with adequate current carrying capacity.

To reduce the risk of electric shock, malfunctions, or fire, seal the gap between the cables and cable access holes with putty.

Precautions for moving or repairing the controller

🗥 WARNING

The controller should be repaired or moved only by qualified personnel. Do not disassemble or modify the controller. Improper installation or repair may cause injury, electric shock, or fire.

Additional precautions

To avoid damage to the controller, use appropriate tools to install, inspect, or repair the controller.

This controller is designed for exclusive use with the Building Management System by Mitsubishi Electric. The use of this controller for with other systems or for other purposes may cause malfunctions.

Take appropriate measures against electrical noise interference when installing the air conditioners in hospitals or facilities with radio communication capabilities. Inverter, high-frequency medical, or wireless communication equipment as well as power generators may cause the air conditioning system to malfunction. Air conditioning system may also adversely affect the operation of these types of equipment by creating electrical noise.

To avoid malfunctions, do not bundle power cables and signal cables together, or place them in the same metallic conduit.

To reduce the risk of shorting, electric shock, fire, or malfunction, do not touch the circuit board with tools or with your hands, and do not allow dust to accumulate on the circuit board.

To prevent malfunctions, do not remove the protective film or the circuit board from the casing.

To avoid damage to the controller, do not overtighten the screws.

Use a flat-head screwdriver with a blade width of 4-7 mm (5/32-9/ 32 inch). The use of a screwdriver with a narrower or wider blade tip may damage the controller casing.

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

To avoid discoloration, do not use benzene, thinner, or chemical rag to clean the controller. To clean the controller, wipe with a soft cloth soaked in water with mild detergent, wipe off the detergent with a wet cloth, and wipe off water with a dry cloth.

To avoid damage to the controller, provide protection against static electricity.

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.

To avoid damage to the controller, do not make holes on the controller cover.

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

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the

appliance.

Do not install the controller on the control panel door. Vibrations or shocks to the controller may damage the controller or cause the controller to fall.

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

To prevent cable breakage and malfunctions, do not hang the top controller casing hang by the cable.

This appliance is intended to be used by expert or trained users in shops, in light industry and on farms, or for commercial use by lay persons.

If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

2. System Requirements

	•
	The CD-ROM that is supplied with the unit can only be played on a CD-drive or a DVD-drive. Do not attempt to play this CD-ROM on an audio CD player as this may damage your ears and/or speakers.
Your computer mu	st meet the following requirements to run Manual Navigation Software.
[PC] PC/A	「 compatible
Penti Penti Penti	2 Duo 1.66 GHz or faster (Core2 Duo 1.86 GHz or faster recommended) um D 1.7 GHz or faster (Pentium D 3.0 GHz or faster recommended) um M 1.7 GHz or faster (Pentium M 2.0 GHz or faster recommended) um 4 2.4 GHz or faster (Pentium 4 2.8 GHz or faster recommended) e2 Duo or faster processor is required to run Manual Navigation Software on Windows Vista or later.
	ows Vista or later: 1 GB minimum (2 GB or more recommended) ows XP: 512 MB minimum (1 GB or more recommended)
* Wind	1 GB minimum (available space) dows Vista or later: Available space in the drive that has the Document folder dows XP: Available space in the drive that has the My Document folder
[Resolution]	SVGA 800 × 600 or greater
Window Window	ows8/Pro/Enterprise (Pro recommended) ows7 Ultimate/Enterprise/Professional/Home Premium Service Pack1 (Professional recommended) ows Vista Ultimate/Business/Home Basic Service Pack1 (Business version recommended) ows XP Professional/Home Edition Service Pack2 or Service Pack3 (Professional version recommended)
[Required sc	ftware] Windows8: Adobe Reader 11.0.2 or later (Windows Reader, installed by default in Windows8, cannot be used. Windows7: Adobe Reader 10.1.0 or later Windows XP and Windows Vista: Adobe Reader 8.1.3 or later

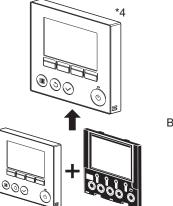
* Software to view PDF files

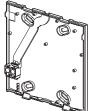
"Windows", "Windows XP", "Windows Vista", "Windows7" and "Windows8" are registered trade marks of Microsoft Corporation. "Adobe Reader" and "Adobe Acrobat" are registered trademarks of Adobe Systems Incorporated. "Core2 Duo" and "Pentium" are registered trademarks of Intel Corporation.

3. Component names and supplied parts

The following parts are included in the box.

Qty.	Appearance
1	Right figure *1
1	Right figure *2
1	Right figure *3
2	
2	
1	
1	
1	
	1 1 1 2 2 1 1





Bottom case *3

*4 The front cover (*1) is already installed on the top case (*2) at factory shipment.*5 Remote controller cable is not included.

Front cover *1

Top case *2

4. Field-supplied parts/Required tools

(1) Field-supplied parts

The following parts are field-supplied parts.

Parts name	Qty.	Notes	
Double switch box	1		
Thin metal conduit	Necessary	Not required for direct wall installation	
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 mm ² (AWG22) 2-core sheathed cable.)	Necessary		

(2) Field-supplied tools

- Flat-tip screwdriver (Width: 4-7 mm (5/32-9/32 inch)) or Plate service tool (Part No.R61008235)
 Nipper
- Miscellaneous tools

/	
Plate	service tool

5. Selecting an installation site

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) For connection to the indoor unit with an Auto descending panel, a place where people can check the Auto descending panel operation of the indoor unit while they are operating the remote controller (Refer to the indoor unit Instructions Book for how to operate Auto descending panel.)
- (b) A flat surface
- (c) 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 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 reduce the risk of shorting, current leakage, electric shock, malfunctions, smoke, or fire, do not install the controller in a place exposed to water or in a condensing environment.

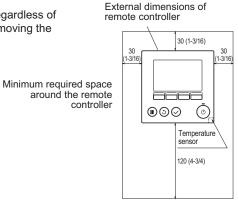
(2) Installation space

Leave a space around the remote controller as shown in the figure at right, 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.

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

To reduce the risk of malfunctions and damage to the controller, avoid installing the remote controller on an electrically conductive surface, such as an unpainted metal sheet.



unit: mm(in)

6. Installation/Wiring work

(1) Installation work

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

① Drill a hole in the wall.

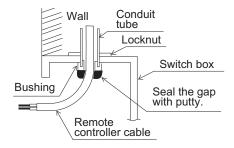
- Installation using a switch box
 - Drill a hole in the wall, and install the switch box on the wall.
 - Connect the switch box to the conduit tube.
- Direct wall installation
 - Drill a hole in the wall, and thread the cable through it.

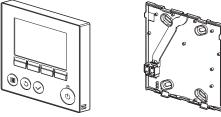
(2) Seal the cable access hole with putty.

- 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.



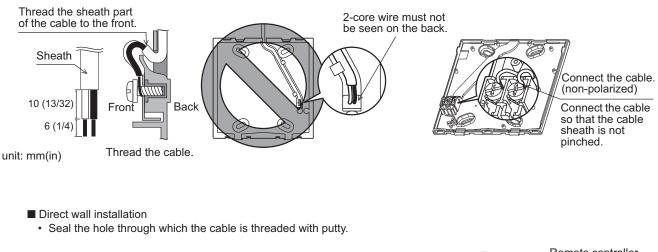


Front cover and top case

Bottom case

(Connect the remote controller cable to the terminal block on the bottom case.

Peel off 6 mm of the remote controller cable sheath as shown in the figure below, and thread the cable from behind the bottom case. Thread the cable to the front of the bottom case so that the peeled part of the cable cannot be seen behind the bottom case. Connect the remote controller cable to the terminal block on the bottom case.

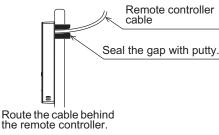


To reduce the risk of electric shock, shorting, or malfunctions, keep wire pieces and sheath shavings out of the terminal block.

Important

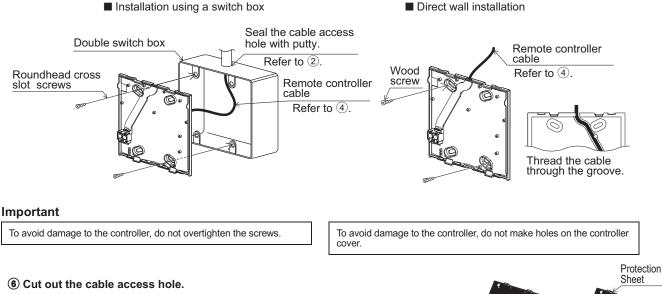
Do not use solderless terminals to connect cables to the terminal block.

Solderless terminals may come in contact with the circuit board and cause malfunctions or damage the controller cover.



(5) Install the bottom case.

- Installation using a switch box
 - · Secure at least two corners of the switch box with screws.
- Direct wall installation
- Thread the cable through the groove.
- · Secure at least two corners of the remote controller with screws.
- Be sure to secure top-left and bottom-right corners of the remote controller (viewed from the front) to prevent it from lifting. (Use molly anchor etc.)



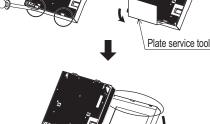
- Direct wall installation (when running the cable along the wall)
 - Insert a flat-tip screwdriver with a blade width of 4–7 mm (5/32–9/32 inch) or a Plate service tool into either of the two latches at the bottom of the remote controller, and move it in the direction of the arrow as shown in the figure at right.
 - The top case will come loose from the front cover. Pull the top case toward you to remove it.
 - Cut out the thin-wall part on the front cover (indicated with the shaded area in the right figure) with a nipper.
 - (This cutout hole will be used to thread the remote controller cable through, after the cable is threaded through the groove on the back of the bottom case.)
 - · Place the top case onto the front cover.

Notice

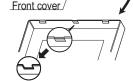
To prevent damage to the circuit board, remove the front cover from the top case before cutting out a cable access hole.

1 Route the wire to the top case.

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



Top case /



Securely connect the connectors.

Important

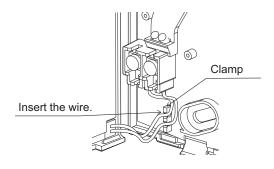
To prevent malfunctions, do not remove the protective film or the circuit board from the casing.



To prevent cable breakage and malfunctions, do not hang the top controller casing hang by the cable.

Important

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



Wall

No lifting

Use a cable cover.

Thread the cable through the

top of the remote controller.

(9) Install the front cover and top case on the bottom case.

Two mounting tabs are at the top of the top case. (A cover is already installed on the case at the time of factory shipment.) 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.

®00

Seal the gap with putty.

Important

When attaching the cover and 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.

- 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.

Installation is complete. Follow the instructions below when uninstalling them.

· Uninstalling the front cover and top case

① Uninstalling the front cover

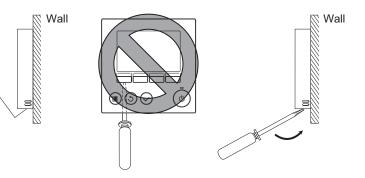
Insert a flat-tip screwdriver or a Plate service tool into either of the two latches at the bottom of the remote controller, and move it in the direction of the arrow as shown in the figure at right. Note that the top case may also be removed if the driver or the tool is inserted deeply.

or Coco

0ľ

② Uninstalling the top case

Insert a flat-tip screwdriver or a Plate service tool into either of the two latches at the bottom of the remote controller, and move it in the direction of the arrow as shown in the figure at right.



Important

Use a flat-head screwdriver with a blade width of 4-7 mm (5/32-9/ 32 inch). The use of a screwdriver with a narrower or wider blade tip may damage the controller casing.

To prevent damage to the controller casing, do not force the driver to turn with its tip inserted in the slot. To prevent damage to the control board, do not insert the driver into the slot strongly.

③ Installing the cover and top 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. Install the cover on the top case in the same way

as with the top case. Check that the top case is securely installed and

not lifted.

Wall </tr

Important

When attaching the cover and 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.

7. Important

Discrepancy between the indoor temperature measured at the wall and the actual indoor temperature may occur.

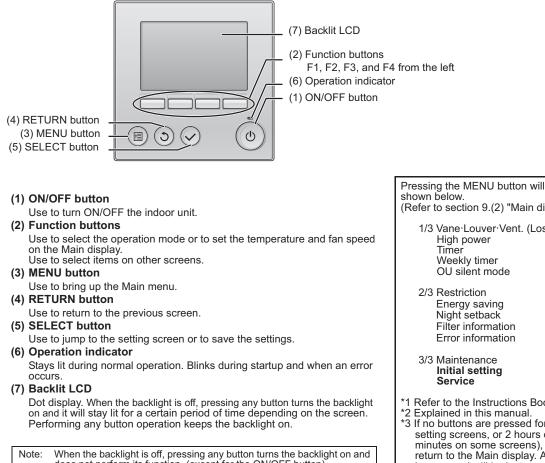
If the following conditions are met, the use of the temperature sensor on the indoor unit is recommended.

- Supply air does not reach to the wall easily where the remote controller is installed due to improper airflow distribution.
- There is a great discrepancy between the wall temperature and the actual indoor temperature.
- The back side of the wall is directly exposed to the outside air.

Note: When temperature changes rapidly, the temperature may not be detected accurately.

- Refer to the section on initial setting in this Manual for remote controller main/sub setting.
- Refer to either of the following manuals for temperature sensor setting: indoor unit Installation Manual for City Multi; this manual for Mr. Slim.
- At the time of factory shipment, protective sheet is on the operation interface of the front cover. Peel off the protective sheet on the operation interface prior to use.

8. Remote controller button functions



does not perform its function. (except for the ON/OFF button)

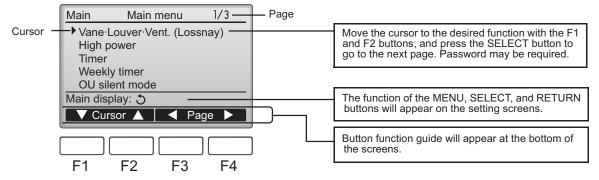
Pressing the MENU button will bring up the Main menu as (Refer to section 9.(2) "Main display" for details.)

1/3 Van	e·Louver·Vent.	(Lossnay)	*1
Hig	h power		*1
Tim	er		*1
We	ekly timer		*1
OU	silent mode		*1
2/3 Res	striction		*1
Ene	ergy saving		*1
Nigl	ht setback		*1
Filte	er information		*1
Erro	or information		*1
3/3 Mai	ntenance		*1
Init	ial setting		*2 *3
Ser	vice		*2 *3
		D I · · · ·	

- *1 Refer to the Instructions Book in the CD-ROM for details.
- *3 If no buttons are pressed for 10 minutes on the initial setting screens, or 2 hours on the service screens (10 minutes on some screens), the screen will automatically return to the Main display. Any settings that have not been saved will be lost.

The available items on the menu depend on the connected indoor unit model. For items not described in the manuals that are enclosed with the MA remote controller, refer to the manuals that came with the air conditioning units.

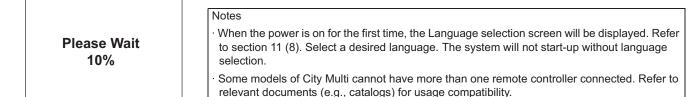
Button operations on the Main menu



9. Turning on the power

Make sure that the MA remote controller is properly installed according to the instructions in the Installation Manual and that the indoor and outdoor unit installation has been completed before turning on the power.

(1) When the power is turned on, the following screen will appear.



Normal start up (indicating the percentage of process completion)

(2) Main display

After the successful startup, the Main display will appear. The Main display can be displayed in two different modes: "Full" and "Basic." Refer to section 11 "Initial settings" for how to select the display mode. (The factory setting is "Full.")

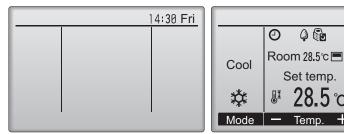
14:30 Fri

jo I

Auto

Sø

Fan



Notes

 When connecting two remote controllers, be sure to designate one as a main and the other as a sub controller. Refer to section 11 "Initial settings" for how to make the Main/Sub setting.

• Refer to the Instructions Book for the icons on the display.

Main display in the Full mode (while the unit is not in operation) Main display in the Full mode (while the unit is in operation)

10. Test run < Maintenance password is required.>

- (1) Read the section about Test run in the indoor unit Installation Manual before performing a test run.
- (2) At the Main display, press the MENU button and select Service>Test run>Test run.
- (3) Press the ON/OFF button to cancel the test run if necessary.
- (4) Refer to the indoor unit Installation Manual for the detailed information about test run and for how to handle the errors that occur during a test run.

Note: Refer to section 12 "Service menu" for information about the maintenance password.

11. Initial settings (Remote controller settings) <Administrator password is required.>

From the Main display, select Main menu>Initial setting, and make the remote controller settings on the screen that appears.

Initial setting menu 1/2
Main/Sub
Clock
Main display
Contrast
Display details
Main menu: 🔚
V Cursor ▲ Image ►

- Initial setting menu (1/2) · Main/Sub
- · Clock
- Main display
 Contrast
- · Display details
- -Clock
- -Temperature -Room temp.
- -Auto mode

Initial setting menu (2/2)

- · Auto mode
- · Administrator password
- · Language selection

Note: The initial administrator password is "0000." Refer to section (7) "Administrator password setting" for how to change the password.

(1) Main/Sub setting

When connecting two remote controllers, one of them needs to be designated as a sub controller. [Button operation]

- When the F3 or F4 button is pressed, the currently selected setting will appear highlighted. Select "Sub", and press the SELECT button to save the change.
- [2] Press the MENU button to return to the Main menu screen. (This button always brings up the Main menu screen.)

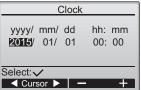
Main/Sub
Main / Sub
Select: ✓

(2) Clock setting

Note:

- [Button operation]
- [1] Move the cursor with the F1 or F2 button to the desired item.
- [2] Change the date and time with the F3 or F4 button, and press the SELECT button to save the change. The change will be reflected on the clock display on the Main display.

Clock setting is necessary for time display, weekly timer, timer setting and error history.		
Make sure to perform clock setting when the unit is used for the first time or has not used		0.
for a long time.	, l	Ļ



Contrast

Display details

Clock display

AM/PM disp. AM12:00/12:00AM

🔍 Cursor 🔺 🛛 🚽 Cursor 🕨

Yes/No

12h/24h

Yes / No

Yes / No

Change

Clock No 24h Temperature C/°F / 1°C

Light Dark

Main menu: া

Room temp.

Auto mode Select: V ▼ Cursor ▲

Clock

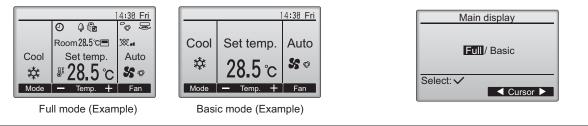
Clock

12h disp

Select: 🗸

(3) Main display setting

Use the F3 or F4 button to select the display mode "Full" or "Basic." (The factory setting is "Full.")



This setting is only for the Main display. In the Basic mode, icons that indicate control status on timer and schedule Note: settings will not appear on the display. Vane, louver, and ventilation settings or room temperature will not appear, either.

(4) Display contrast

[Button operation] Adjust LCD contrast with the F3 or F4 button. The current level is indicated with a triangle.

Note: Adjust the contrast to improve viewing in different lighting conditions or installation locations. This setting can not improve viewing from all directions.

(5) Remote controller display details setting

Make the settings for the remote-controller-related items as necessary. Press the SELECT button to save the changes.



[Button operation]

· Select "Clock" from the remote controller display details setting screen, and press the F4 button (Change) to bring up the clock display setting screen.

- · Use the F1 through F4 buttons to select "Yes" (display) or "No" (non-display) and its format for the Main display.
- · Save the settings with the SELECT button.
- (The factory settings are "Yes" (display) and "24 h" format.)

Clock display: Yes (Time is displayed on the Main display.)

No (Time is not displayed on the Main display.)

Display format: 24-hour format

12-hour format

AM/PM display (Effective when the display format is 12-hour): AM/PM before the time AM/PM after the time

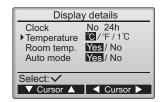
Time display format will also be reflected on the timer and schedule setting display. The time is displayed as shown below. Note: 12-hour format: AM12:00 ~ AM1:00 ~ PM12:00 ~ PM1:00 ~ PM11:59 0:00 ~ 1:00 ~ 12:00 ~ 24-hour format: 13:00 ~ 23:59

[2] Temperature unit setting

[Button operation]

Move the cursor to the "Temperature" on the display details setting screen, and select the desired temperature unit with the F3 or F4 button. (The factory setting is Centigrade (°C).)

- · °C: Temperature is displayed in Centigrade. Temperature is displayed in 0.5- or 1-degree increments, depending on the model of indoor units.
- · °F: Temperature is displayed in Fahrenheit.
- · 1 °C: Temperature is displayed in Centigrade in 1-degree increments. This item will not appear on a sub remote controller.



[3]Room temperature display

[Button operation]

Move the cursor to the "Room temp." on the display details setting screen, and select the desired setting with the F3 or F4 button. (The factory setting is "Yes".)

- \cdot Yes: Room temperature appears on the Main display.
- · No: Room temperature does not appear on the Main display.

Note: Even when "Yes" is set, the room temperature is not displayed on the Main display in the "Basic" mode.

[4]Auto (single set point) mode display setting

[Button operation]

Move the cursor to the "Auto mode" on the display details setting screen, and select the desired mode with the F3 or F4 button. (The factory setting is "Yes".)

- Yes: "AUTO COOL" or "AUTO HEAT" is displayed during operation in the AUTO (single set point) mode.
- · No: Only "AUTO" is displayed during operation in the AUTO (single set point) mode.
- (6) Auto mode setting
 - [Button operation]

Whether or not to use the Auto (single set point) or Auto (dual set points) mode can be selected by using the F3 or F4 button. This setting is valid only when indoor units with the AUTO mode function are connected.

(The factory setting is "Yes".)

Press the SELECT button to save the changes made.

· Yes: The AUTO mode can be selected in the operation mode setting.

• No: The AUTO mode cannot be selected in the operation mode setting.

(7) Administrator password setting

[Button operation]

- [1] To enter the current Administrator password (4 numerical digits), move the cursor to the digit you want to change with the F1 or F2 button, and set each number (0 through 9) with the F3 or F4 button.
- [2] Press the SELECT button.

Note: The initial administrator password is "0000." Change the default password as necessary to prevent unauthorized access. Have the password available for those who need it.

Note: If you forget your administrator password, you can initialize the password to the default password "0000" by pressing and holding the F1 and F2 buttons simultaneously for three seconds on the administrator password setting screen.

- [3] If the password matches, a window to enter a new password will appear. Enter a new password in the same way as explained above, and press the SELECT button.
- [4] Press the F4 button (OK) on the password change confirmation screen to save the change. Press the F3 button (Cancel) to cancel the change.

Note: The administrator password is required to make the settings for the following items.

· Timer setting · Weekly timer setting · Energy-save setting

· Outdoor unit silent mode setting · Restriction setting

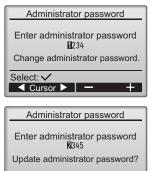
Refer to the Instruction Book that came with the remote controller for the detailed information about how to make the settings for these items.

- (8) Language selection
 - [Button operation]

Move the cursor to the language you desire with the F1 through F4 buttons. Press the SELECT button to save the setting.







 Language selection

 English
 Français

 Español
 Italiano

 Português
 Ελληνικά

 Türkce
 Svenska

Türkçe

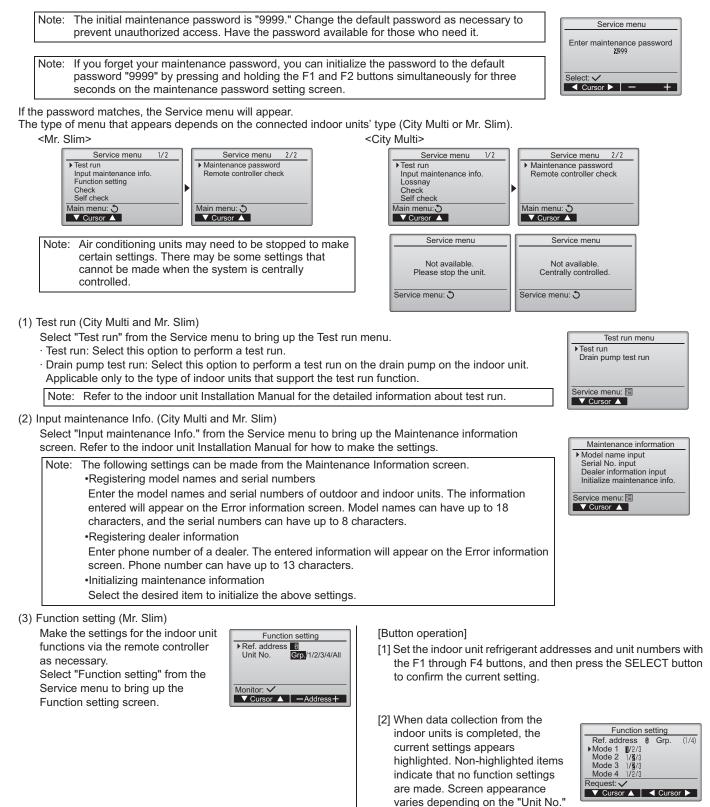
Cancel OK

12. Service menu (Maintenance password is required.)

At the Main display, press the MENU button and select "Service" to make the maintenance settings.

When the Service menu is selected, a window will appear asking for the password.

To enter the current maintenance password (4 numerical digits), move the cursor to the digit you want to change with the F1 or F2 button, and set each number (0 through 9) with the F3 or F4 button. Then, press the SELECT button.



settina.

Common items

[3] Use the F1 or F2 button to move the cursor to select the mode number, and change the setting number with the F3 or F4 button.

Function	setting		
Ref. address			
Mode 7 1/2/3 Mode 8 1/2/3			
Mode 9 1/2/3 Mode11 1/2/3			
Request: ✓			
▼ Cursor ▲	Cursor		
Individual items			
(Unit No. 1 through 4)			

- [4] When the settings are completed, press the SELECT button to send the setting data from the remote controller to the indoor units.
- [5] When the transmission is successfully completed, the screen will return to the Function setting screen.

	Function setting				
Ref.	address	0	Grp.		

Sending data

- Note: Make the above settings on Mr. Slim units as necessary.
 - Refer to the Instructions Book when it is necessary to set the settings for City Multi units.

• Table 1 summarizes the setting options for each mode number. Refer to the indoor unit Installation Manual for the detailed information about initial settings, mode numbers, and setting numbers for the indoor units.

• Be sure to write down the settings for all functions if any of the initial settings has been changed after the completion of installation work.

Table1. Function setting options

Mode No.	Mode	Settings	Setting No.	Unit numbers
01 Automatic recovery after power failure	Disable	1	Set "Grp." for the Unit number.	
	Enable (Four minutes of standby time is required after the restoration of power.)	2	These settings apply to all the connected	
02 Thermistor selection	Thermistor selection	Average temperature reading of the indoor units in operation	1	indoor units.
	(indoor temperature detection)	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	
05	AUTO mode	Enable (Automatically the unit achieves effective energy saving operation.)	1	
		Disable	2	1
07	Filter sign	100 hours	1	
		2500 hours	2	Set "1, 2, 3, 4, or All" for the Unit number.
		Not displayed	3	 These settings apply to each indoor unit. If "1, 2, 3, or 4" is set for the Unit number the settings apply only to the specified
08	Fan speed	Silent mode (or standard)	1	
		Standard (or High ceiling 1)	2	indoor unit regardless of the number of
	Ī	High ceiling (or High ceiling 2)	3	connected indoor units (one through fou units).
09	Outlet	4 directional	1	 If "ALL" is set for the Unit number, the settings apply to all the connected index
		3 directional	2	
		2 directional	3	units regardless of the number of
10	Optional parts	No	1	connected indoor units (one through fou units).
	(High-efficiency filter)	Yes	2	
11	Vane	No vanes (or the vane setting No.3 is effective.)	1	
		Equipped with vanes (The vane setting No.1 is effective.)	2	1
		Equipped with vanes (The vane setting No.2 is effective.)	3	1

(4) LOSSNAY setting (City Multi only)

This setting is required only when the operation of City Multi units is interlocked with LOSSNAY units. This setting is not available for the Mr. Slim units. Interlock settings can be made for the indoor unit to which the remote controller is connected. (They can also be confirmed or deleted.)

Note:	 Use the centralized controller to make the settings if it is connected.
	• To interlock the operation of the indoor units with the LOSSNAY units, be sure to interlock the addresses of ALL indoor
	units in the group and that of the LOSSNAY unit.

[Button operation]

 When "Lossnay" on the Service menu is selected, the remote controller will automatically begin searching for the registered LOSSNAY addresses of the currently connected indoor unit.

Lossnay	
IU address Lossnay address	
Collecting data	

[2] When the search is completed, the smallest address of the indoor units that are connected to the remote controller and the address of the interlocked LOSSNAY unit will appear. "--" will appear if no LOSSNAY unit is interlocked with the indoor units.



If no settings need to be made, press the RETURN button to go back to the Service menu.

To make LOSSNAY interlock setting

 [3] Enter the addresses of the indoor unit and the LOSSNAY unit to be interlocked, with the F1 through F4 buttons, select "Set" in the "Function", and press the SELECT button to save the settings.
 "Sending data" will appear on the screen. If the setting is successfully completed, "Setting completed" will appear.

Lossnay		Lossnay	
IU address Lossnay address	5 30	IU address Lossnay address	5 30
Sending data		Setting completed	
		Return: 3	

To search for the LOSSNAY address

[4] Enter the address of the indoor unit to which the remote controller is connected, select "Conf" in the "Function", and press the SELECT button. "Collecting data" will appear on the screen. If the signal is received correctly, the indoor unit address and LOSSNAY address will appear. "--" will appear when no LOSSNAY unit is found. "Unit not exist" will appear if no indoor units that are correspond to the entered address are found.

Lossnay		Lossnay	
IU address Lossnay address	5	IU address Lossnay address	5
Collecting data		Unit not exist	
		Return: 3	

To delete the interlock setting

[5] To delete the interlocked setting between LOSSNAY unit and the indoor units to which the remote controller is connected, enter the indoor unit address and LOSSNAY address with the F1 through F4 buttons, select "Del." in the "Function", and press the SELECT button. "Deleting" will appear. The screen will return to the search result screen if the deletion is successfully completed. "Unit not exist" will appear if no indoor units that are correspond to the entered address are found. If deletion fails, "Request rejected" will appear on the screen.

Lossnay		Lossn	Lossnay	
U address	5	IU address	5	
Lossnay address	30	Lossnay address	30	
Deleting		Request re	jected	
		Return: 3		

Error history

Error history deleted

Check menu: 3

(5) Check

Select "Check" on the Service menu to bring up the Check menu screen. The type of menu that appears depends on the type of indoor units that are connected (City Multi or Mr. Slim).

(When City Multi is connected, only "Error history" will appear in the menu.)

Check menu 1/1 ► Error history Refrigerant volume check Refrigerant leak check Smooth maintenance Request code Service menu: ▼ Cursor ▲

"Error history deleted" will appear on the screen. Press the Return button to go back to the Check menu screen.

<Mr. Slim>

[2] Other options in the Check menu (Mr. Slim only)

The following options are also available on the Mr. Slim units in the Check menu.

- •Refrigerant volume check
- •Refrigerant leak check
- •Smooth maintenance
- Request code

These options are available only on the Mr. Slim units. Refer to the indoor unit Installation Manual for details.

[1] Error history

Select "Error history" from the Check menu, and press the SELECT button to view up to 16 error history records. Four records are shown per page, and the top record on the first page indicates the latest error record.
 Error history
 1/4

 Error Unt#
 dd/mn/yy

 E8
 8-1

 F0
 15/84/88

 E8
 8-1

 E9
 8-1

 E8
 8-1

 E9
 8-1

 E8
 8-1

 E9
 8-1

 E9

[Deleting the error history] To delete the error history, press the F4 button (Delete) on the screen that shows error history. A confirmation screen will appear asking if you want to delete the error history. Press the F4 button (OK) to delete the history.

Error history
Delete error history?
Cancel OK

(6) Diagnostic function.

Error history of each unit can be checked via the remote controller. [Procedures]

- [1] Select "Self check" from the Service menu, and press the SELECT button to view the Self check screen.
- [2] With the F1 or F2 button, enter the refrigerant address (Mr. Slim) or the M-NET address (City Multi), and press the SELECT button.
- [3] Error code, unit number, attribute, and indoor unit demand signal ON/OFF status at the contact (City Multi only) will appear. "-" will appear if no error history is available.

<mr. slim=""></mr.>	<city multi=""></city>
Self check	Self check
Ref. address 0	M-NET address 1
Error P4 Unt # 1 Grp.IC	Error 5102 1 Grp.IC Contact 0FF
Return: 3 Reset	Return: 3



<City Multi>

Self check					
M-NET address	1				
Error Contact 0FF	-	Grp			
Return: 🔊		Reset			

When there is no error history

[Resetting the error history]

 Press the F4 button (Reset) on the screen that shows the error history. A confirmation screen will appear asking if you want to delete the error history.

Self check
Ref. address 0
Delete error history?
Cancel OK

[2] Press the F4 button (OK) to delete the error history. If deletion fails, "Request rejected" will appear, and "Unit not exist" will appear if no indoor units that are correspond to the entered address are found.

Self check				
Ref. address 0				
Error history deleted				
eturn: 🔿				



[Procedures]

(7) Setting the maintenance password

- [1] Select "Maintenance password" on the Service menu, and press the SELECT button to bring up the screen to enter a new password.
- [2] Move the cursor to the digit you want to change with the F1 or F2 button, and set each digit to the desired number (0 through 9) with the F3 or F4 button.
- [3] Press the SELECT button to save the new password.

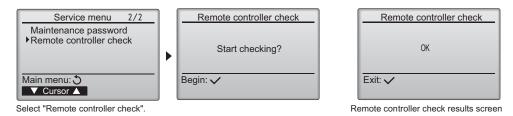
Take the following steps to change the maintenance password.

- [4] A confirmation screen will appear asking if you want to change the maintenance password. Press the F4 button (OK) to save the change. Press the F3 button (Cancel) to cancel the change.
- [5] "Changes saved" will appear when the password is updated.
- [6] Press the MENU button to return to the Service menu or press the RETURN button to go back to the "Maintenance password" screen.

13. Remote controller check

When the remote controller does not work properly, use the remote controller checking function to troubleshoot the problem.

- (1) Check the remote controller display and see if anything is displayed (including lines). Nothing will appear on the remote controller display if the correct voltage (8.5-12 VDC) is not supplied to the remote controller. If this is the case, check the remote controller wiring and indoor units.
 - [Procedures]
 - [1] Select "Remote controller check" from the Service menu, and press the SELECT button to start the remote controller check and see the check results. To cancel the remote controller check and exit the Remote controller check menu screen, press the MENU or the RETURN button. The remote controller will not reboot itself.



- OK: No problems are found with the remote controller. Check other parts for problems.
- E3, 6832: 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.
- NG (ALL0, ALL1): Send-receive circuit fault. Remote controller needs replacing.
- ERC: The number of data errors is the discrepancy between the number of bits in the data transmitted from the remote controller and that of the data that was actually transmitted over the transmission line. If data errors are found, check the transmission line for external noise interference.
- [2] If the SELECT button is pressed after the remote controller check results are displayed, remote controller check will end, and the remote controller will automatically reboot itself.



MITSUBISHI ELECTRIC CORPORATION HEAD OFFICE: TOKYO BLDG, 2-7-3, MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN

HEAD OFFICE: TOKYO BLDG., 2-7-3, MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN Authorized representative in EU: MITSUBISHI ELECTRIC EUROPE B.V. HARMAN HOUSE, 1 GEORGE STREET, UXBRIDGE, MIDDLESEX UB8 1QQ, U.K. MANUFACTURE: MITSUBISHI ELECTRIC CORPORATION Air-conditioning & Refrigeration Systems Works 5-66, Tebira 6 Chome, Wakayama-city, 640-8686, Japan

WT07894X01