



Simple Manual

For distribution to dealers and contractors

Safety precautions

- Thoroughly read the following safety precautions before using the unit.
- Observe these precautions carefully to ensure safety.

WARNING	Indicates a risk of death or serious injury.
CAUTION	Indicates a risk of serious injury or structural damage.

General precautions

- 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 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.
 - If any abnormality (e.g., burning smell) is noticed, stop the operation, turn off the power switch, and consult your dealer. Continued use of the product may result in electric shock, malfunctions, or fire.
 - 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.
- CAUTION**
- 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.
 - When disinfecting the unit using alcohol, ventilate the room adequately. The fumes of the alcohol around the unit may cause a fire or explosion when the unit is turned on.
 - 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 environmental pollution, consult an authorized agency for proper disposal of remote 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.

Precautions during installation

- WARNING**
- Do not install the unit where there is a risk of leaking flammable gas. If flammable gas accumulates around the unit, it may ignite and cause a fire or explosion.
 - Take appropriate safety measures against earthquakes to prevent the controller from causing injury.
- CAUTION**
- 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.

Precautions during wiring

- WARNING**
- To reduce the risk of damage to the controller, malfunctions, smoke, or fire, do not connect the power cable to the signal terminal block.
 - Use properly rated breakers and fuses (breaker, local switch <switch + fuse>, no-fuse breaker). Breaker with a breaking capacity greater than the specified capacity may cause electric shock, malfunctions, smoke, or fire.
 - 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 current leakage, overheating, smoke, or fire, use properly rated cables with adequate current carrying capacity.
 - Proper grounding must be provided by a licensed electrician. Do not connect the grounding wire to a gas pipe, water pipe, lightning rod, or telephone wire. Improper grounding may result in electric shock, smoke, fire, or malfunction due to electrical noise interference.
 - All electric work must be performed by a qualified electrician according to the local regulations, standards, and the instructions detailed in the Installation Manual.
 - To reduce the risk of electric shock, install a breaker and a residual current circuit breaker on the power supply. To reduce the risk of electric shock, smoke, or fire, install a breaker for each controller.

- CAUTION**
- 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.
- Securely seal the cable access holes with putty to prevent condensation, water, and insects from entering and causing electric shock, malfunctions, or fire. Water infiltration and condensation formed inside the unit may damage the circuit board.

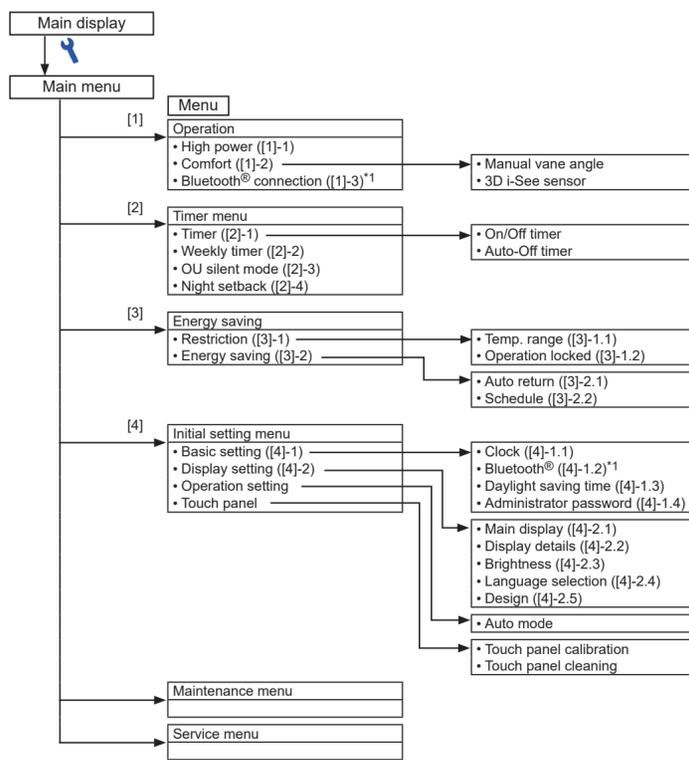
Precautions for moving or repairing the controller

- 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.
- CAUTION**
- 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.

Additional precautions

- To avoid damage to the unit, use appropriate tools to install, inspect, or repair the unit.
- 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.
- Secure the cable with a clamp.
- 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.
- After connecting the connector, install the top case properly.
- 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.
- 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.
- 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.
- To avoid damage to the controller, use appropriate tools to install, inspect, or repair the controller.
- To prevent malfunctions, do not remove the protective film or the circuit board from the casing.
- 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.
- To avoid damage to the controller, do not make holes on the controller cover.
- Hold the cables in place with clamps to prevent undue force from being applied to the terminal block and causing cable breakage.

Menu structure



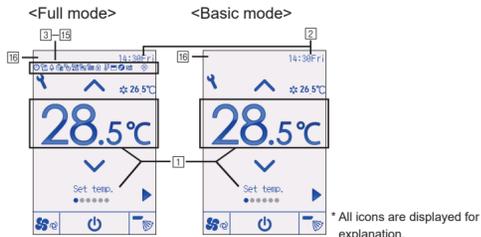
*1 Displayed only on the models with Bluetooth.

OPERATION

Prior to use, thoroughly read the instructions in this manual to use the product correctly. Retain for future reference. Make sure that this manual is passed on to any future users. To ensure safety and proper operation of the remote controller, the remote controller should only be installed by qualified personnel.

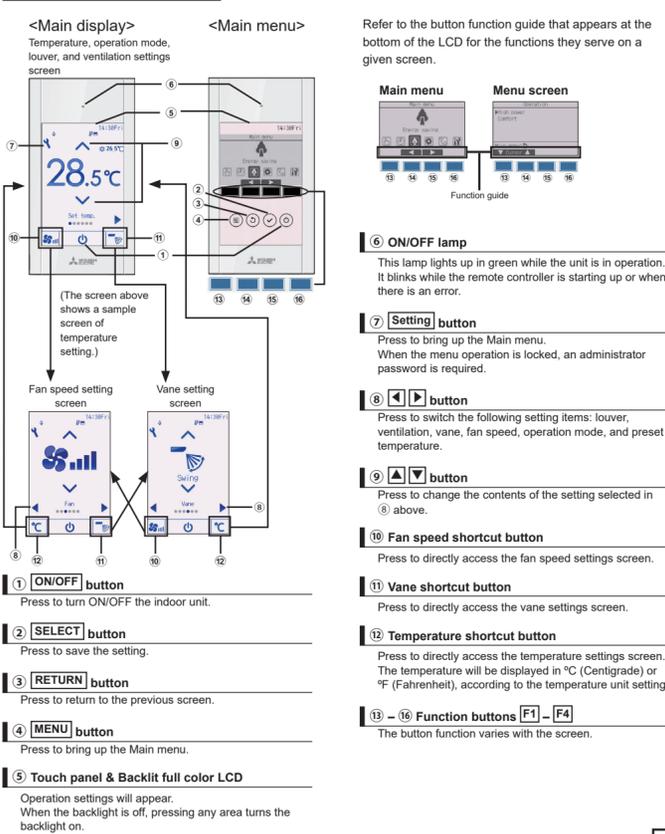
1. Controller components

Display The main display can be displayed in two different modes: "Full" and "Basic." The factory setting is "Full."

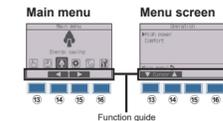


- Setting item and contents**
The setting items "Preset temperature" ↔ "Operation mode" ↔ "Fan speed" ↔ "Vane" ↔ "Ventilation" ↔ "Louver," and their setting contents appear here. "Centrally controlled" appears for a certain period of time when a centrally-controlled item is operated.
- Clock (See the Installation Manual.)**
Current time appears here.
- On/Off timer**
Appears when the On/Off timer, Night setback, or Auto-off timer function is enabled.
- Weekly timer**
Appears when the Weekly timer is enabled.
- Energy save mode**
Appears while the units are operated in the energy-save mode.
- Silent mode**
Appears while the outdoor units are operated in the silent mode.
- ON/OFF operation**
Appears when the ON/OFF operation is centrally controlled.
- Operation mode**
Appears when the operation mode is centrally controlled.
- Preset temperature**
Appears when the preset temperature is centrally controlled.
- Filter reset function**
Appears when the filter reset function is centrally controlled.
- Buttons locked**
Appears when the buttons are locked.
- Preset temperature range**
Appears when the preset temperature range is restricted.
- Thermistor**
Appears when the built-in thermistor on the remote controller is activated to monitor the room temperature.
- Room temperature**
Appears when the thermistor on the indoor unit is activated to monitor the room temperature.
- 3D i-See sensor**
Appears when an energy-saving operation is performed using a "3D i-See sensor" function.
- Filter maintenance**
Indicates when filter needs maintenance.
- Preliminary error display**
An error code appears during the preliminary error.

Controller interface



Refer to the button function guide that appears at the bottom of the LCD for the functions they serve on a given screen.

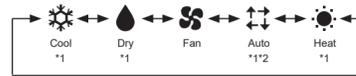


- ON/OFF lamp**
This lamp lights up in green while the unit is in operation. It blinks while the remote controller is starting up or when there is an error.
- Setting button**
Press to bring up the Main menu. When the menu operation is locked, an administrator password is required.
- Navigation button**
Press to switch the following setting items: louver, ventilation, vane, fan speed, operation mode, and preset temperature.
- Content button**
Press to change the contents of the setting selected in 8 above.
- Fan speed shortcut button**
Press to directly access the fan speed settings screen.
- Vane shortcut button**
Press to directly access the vane settings screen.
- Temperature shortcut button**
Press to directly access the temperature settings screen. The temperature will be displayed in °C (Centigrade) or °F (Fahrenheit), according to the temperature unit setting.
- Function buttons F1 - F4**
The button function varies with the screen.

2. Main display operation

Selecting operation mode

- Press button (4) to select the operation mode.
- Press button (5) to go through the operation modes.



*1 Operation modes that are not available to the connected indoor unit models will not appear on the display.
 *2 Single or dual set points will appear, depending on the indoor unit model.
 * Interlocked operation is performed in all the operation modes when the ventilation unit is interlocked.

Preset temperature setting

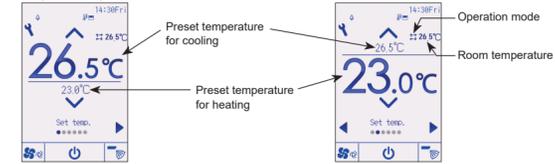
Preset temperature will be displayed either in Celsius in 0.5- or 1-degree increments, or in Fahrenheit, depending on the indoor unit model and the display mode setting on the remote controller.

<Cool, Dry, Heat, and Auto (single set point)>

- Press button (12) (Temperature shortcut) or (8) (4) to select the preset temperature.
- Press button (9) to increase the preset temperature. Press button (10) to decrease the preset temperature.

<Auto (dual set point)>

- Press button (12) (Temperature shortcut) or (8) (4) to select the upper limit or the lower limit of the preset temperature.
- Press button (9) to increase the selected temperature, and (10) to decrease.



Fan speed setting

- Press button (13) (Fan speed shortcut) or (8) (4) to select the fan speed.
- Press button (9) to change the fan speed.

* The number of available fan speeds depends on the model.



<Note>
 The actual fan speed will be different from the fan speed displayed on the LCD when one of the following conditions is met.
 • While "Standby" or "Defrost" is displayed
 • When the room temperature is higher than the preset temperature during the heating mode
 • Right after the heating operation (during stand by for switching the operation mode)
 • During the dry mode

Vane setting

- Press button (14) (Vane shortcut) or (8) (4) to select the vane angle.
- Press button (9) to change the vane angle.



<Note>
 The actual vane angle will be different from the vane angle displayed on the LCD when one of the following conditions is met.
 • While "Standby" or "Defrost" is displayed
 • The room temperature is higher than the preset temperature during the heating mode
 • Right after the heating operation (during stand by for switching the operation mode)

3. Menu introductions

[1] Operation

- [1]-1 High power
This function allows the units to operate at higher-than-normal capacity so that the room air can be conditioned to an optimum temperature quickly. Refer to the Instruction Book.
- [1]-2 Comfort
Vane angle can be manually fixed, and 3D i-See sensor settings can be made. Refer to the Instruction Book and indoor unit Instruction Book.
- [1]-3 Bluetooth® connection
Bluetooth® connection information can be checked only for the models with Bluetooth®. Refer to the Bluetooth® setting manual.

[2] Timer menu

- [2]-1 Timer (On/Off timer, Auto-Off timer)
This function allows the user to turn on or off the units at the same time every day, or to turn off the units only on the current day. Refer to the Instruction Book.

[2]-2 Weekly timer

Operation ON/OFF times and set temperatures can be set for each day of the week.

- Select "Weekly timer" from the Timer menu, and press the SELECT button.
- The current settings will appear. Press the SELECT button.
- Make the following settings.



[Button operation]

F3, F4 Select "1" or "2".

Note:

Select "1" to enable the timer setting 1, or select "2" to enable the timer setting 2.

- Move the cursor to "Setting" with the F1 or F2 button.



F3, F4 Select "1" or "2".

F1, F2 Move the cursor to the desired day of the week.
F3 (Multiple days can be selected.)

F1 Move the cursor to the desired pattern number.
F2 Move the cursor to the time, On/Off, or temperature.
F3, F4 Change the settings.

[2]-3 OU silent mode

The time periods in which priority is given to quiet operation of outdoor units can be set. Refer to the Instruction Book.

[2]-4 Night setback

This control starts heating operation when the control object group is stopped and the room temperature drops below the preset lower limit temperature. Refer to the Instruction Book.

[3] Energy saving menu

[3]-1 Restriction

[3]-1.1 Temperature range restriction

The set temperature range can be restricted for each operation mode. Refer to the Instruction Book.

[3]-1.2 Operation lock function

The operations can be restricted.
1. Select "Restriction" from the Energy saving menu and press the SELECT button.



[Button operation]

F1, F2 Move the cursor to "Operation locked".

F1, F2 Move the cursor to the desired item.
F3, F4 Change the settings.

Note:

When "Hotel" is selected for the "Location" setting, the following operations will be locked automatically: Mode, Vane, Menu, and Louver.

[3]-2 Energy saving

[3]-2.1 Auto return

The units can be operated at the preset temperature after performing energy-save operation for a specified time period. Refer to the Instruction Book.

[3]-2.2 Schedule

The start/stop times to operate the units in the energy-save mode and the energy-saving rate for each day of the week can be set. Refer to the Instruction Book.

INSTALLATION

This simple manual describes how to install the MA Touch 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 simple manual and the files on the CD-ROM that is supplied with the Touch 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 Touch 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] Component names and supplied parts

The following parts are included in the box.

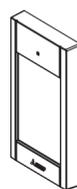
Parts name	Qty.	Appearance
Remote controller (top case)	1	Right figure *1
Remote controller (bottom case)	1	Right figure *2
Roundhead cross slot screws M4×30	2	*3
Wood screw 4.1×16 (for direct wall installation)	2	*3
Simple Manual (this manual)	1	
Bluetooth® Setting Manual	1	
CD-ROM	1	
Instruction Book and Installation Manual		

*3 ISO metric screw thread

*4 Remote controller cable is not included.

Top case *1

Bottom case *2



[2] Field-supplied parts/Required tools

(1) Field-supplied parts

The following parts are field-supplied parts.

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

(2) Field-supplied tools

- Flat-tip screwdriver (Width: 3 - 5 mm (1/8 - 7/32 inch))
- Nipper
- Miscellaneous tools

[3] How To Install

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

(1) Selecting an installation site

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

(a) 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.)

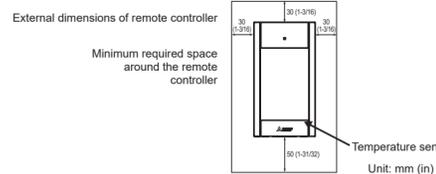
(b) A flat surface

(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 built-in sensor on the 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.)

(2) Installation space

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



(3) Installation work

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

① Drill a hole in the wall.

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

② Seal the cable access hole with putty.

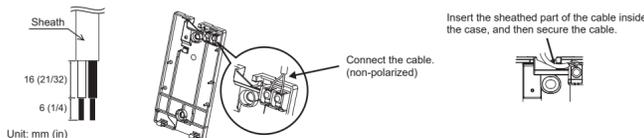
- Installation using a switch box
 - Seal the remote controller cable access hole at the connection of switch box and conduit tube with putty.

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

③ Prepare the bottom case of the remote controller.

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

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



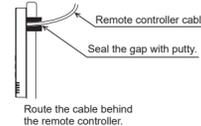
■ Direct wall installation

- Seal the hole through which the cable is threaded with putty.

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

Important

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

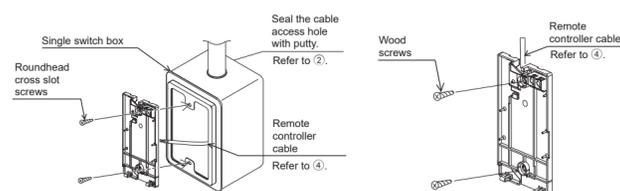


⑤ Install the bottom case.

Be sure to secure two places of the bottom case.

■ Installation using a switch box

■ Direct wall installation



Important

To avoid deformation and damage to the bottom case, do not overtighten the screws.

To avoid damage to the bottom case, do not make holes on it.

⑥ Cut out the cable access hole.

■ Direct wall installation (when running the cable along the wall)

- Cut out the thin-wall part on the cover (the shaded area in the right figure) with a nipper.
- Thread the cable from the groove behind the bottom case through this access hole.



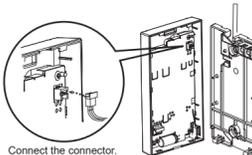
Notice

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

Note that accidentally touching the circuit board may damage the circuit board when cutting out a cable access hole.

⑦ Connect the connector to the top case.

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



Important

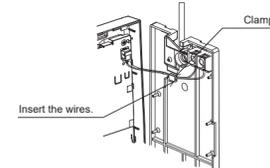
To prevent malfunctions, do not remove the protective sheet or the circuit board from the top case.

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

⑧ Insert the wires into the clamp.

Important

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



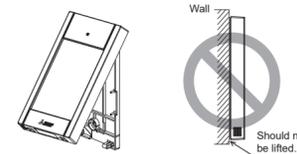
⑨ Install the top case on the bottom case.

Two mounting tabs are at the top of the top case.

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

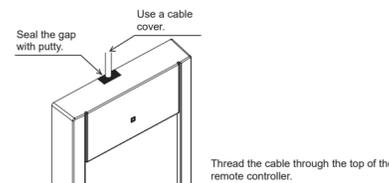
Important

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



■ 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.



■ Uninstalling the top case

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



- 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.

Important

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

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

To prevent damage to the controller casing, use a flat-head screwdriver with a blade width of 3-5 mm (1/8-7/32 inch).

Initial setting

[4] Initial setting menu

[4]-1 Basic setting

Select "Basic setting" from the Initial setting menu and press the SELECT button.

[4]-1.1 Clock setting

The current time can be set. Refer to the Installation Manual.

[4]-1.2 Bluetooth® setting

Bluetooth® settings can be made only for the models with Bluetooth®. Refer to the Bluetooth® setting manual.

[4]-1.3 Daylight saving time

The start/end time for daylight saving time can be set. Refer to the Instruction Book.

[4]-1.4 Administrator password

The password for administrator can be set. Refer to the Installation Manual.

[4]-2 Display setting menu

Select "Display setting" from the Initial setting menu and press the SELECT button.

[4]-2.1 Main display setting

- The Status display and Main display settings can be made.
- Select "Main display setting" from the Display setting menu and press the SELECT button.
 - "Full"/"Basic" Select the display mode "Full" or "Basic".
 - "Icon explan." Set to display or not to display the explanation of the icon of the setting item.

[4]-2.2 Remote controller display details setting

Make the settings for the remote-controller-related items as necessary. Press the SELECT button to save the changes. The following display settings can be made.

Clock display, Temperature unit setting, Room temperature display, Auto (single set point) mode display setting, Backlight, LED lighting

[4]-2.3 Brightness

The screen brightness can be adjusted.

- Select "Brightness" from the Display setting menu and press the SELECT button.

[Button operation]

- F1, F2 Adjust the brightness.
F4 The ON/OFF of the Stay lit mode can be switched.

[4]-2.4 Language selection

Set the language. Refer to the Instruction Book.

[4]-2.5 Design

The color of the screen can be changed. Refer to the Instruction Book.

PAR-CT01MAA-PB/SB

PAR-CT01MAR-PB/SB

This product is designed and intended for use in the residential, commercial, and light-industrial environment.

The product at hand is based on the following EU regulations:

- RE Directive 2014/53/EU

PAR-CT01MAA-S

This product is designed and intended for use in the residential, commercial, and light-industrial environment.

The product at hand is based on the following EU regulations:

- Electromagnetic Compatibility Directive 2014/30/EU