TOSHIBA

Quick Reference
for Remote Countroller

Digital Inverter (DI)

Super Digital Inverter (SDI)

MiNi-Super Modular Multi System (MiNi-SMMS)

Super Modular Multi System (SMMS)

Super Modular Multi System-i (SMMS-i)

Super Heat Recover Multi System (SHRM)

Super Heat Recover Multi System-i (SHRM-i)

CONTENTS

1. Wired Remote Controller

Combined weekly timer RBC-EXW21E2

Type Name	: RBC-AMT31E
Part No.	: 43166002
Substitution	: NO
Type of Remote	: Wired
Reference	: SX-A1EE
Product used	: VRF, Light commercial
Note	: *4-way, 2-way, 1-wai, Concealed Duct, Slim duct, Concealed Duct High Static, Under Ceiling, High wall(1, 12 series), Floor Standing,

Type Name	: RBC-AMT32E
Part No.	: 43166011
Substitution	: NO
Type of Remote	: Wired
Reference	: SX-A4EE
Product used	: Light commercial
Note	: *4-way (4 ser ies) * Duct (2 ser ies) * Under ceiling (2 ser ies) * High-wall (2 ser ies)

Category	
DI	OK
SDI	OK
MiNi-SMMS	OK
SMMS	OK
SHRM	OK
SMMS-i	OK
SHRM-i	OK

How to the remote controller

Connection diagram

Terminal block for remote controller wiring in indoor unit

Remote controller wiring (procured on site)

Remote controller wiring (procured on site)

* Terminals A and B are non-polar

* Use 0.5 to 2MM^2 wire
* Can not use the closed end wire joint

Basic wiring

Remote controller (Header)

Remote controller (Follower) (sold separately)

Remote controller wire (procured on site)

Terminal block for remote controller wiring (Non-polar)

Indoor unit

Earth

Multiple remote controller installation reouirements

In a dual remote controller system. one or more units are operated by multiple remote controllers. (A maximum of two remote controllers can be set.)

Remote controller (inside, rear)

Header remote controller	Follower remote controller
1 2	1 2

Follower remote contoroller

Header remote controller

DIP switch

DIP switch

Be sure to set switch 2 to the lower osition.

Remote controller (Header)

Remote controller inter-unit wires for group control (procured on site)

Remote controller (Follower) (sold separately)

Teminal block for remote controller wire

Indoor unit No.1 — Earth

Indoor unit No.2 — Earth

Indoor unit No.3 — Earth

Indoor unit No.8 — Earth

Remote controller test run setup

1. Push and hold the ✐ button for 4 seconds or more unitil "TEST" appears in the LCD display, then push the ⏻ON/OFF button.
"TEST" appears in LCD display during the test run. Temperature adjustment is not possible while "TEST" is displayd. The test run applies considerable load on the machine; therefore, it is recommended not to use the test mode beyond necessity

2. The test mode should be used in either HEAT or COOL mode.
NOTE: The outdoor unit will not operate for approx. 3 minutes after power up, or the operation will stop.

3. Be sure the "TEST" indication in the LCD display has disappeared by pushing the ✐ button agin after exiting the test mode. (The remote controller has a 60-minute off timer function to prevent continuous test run).
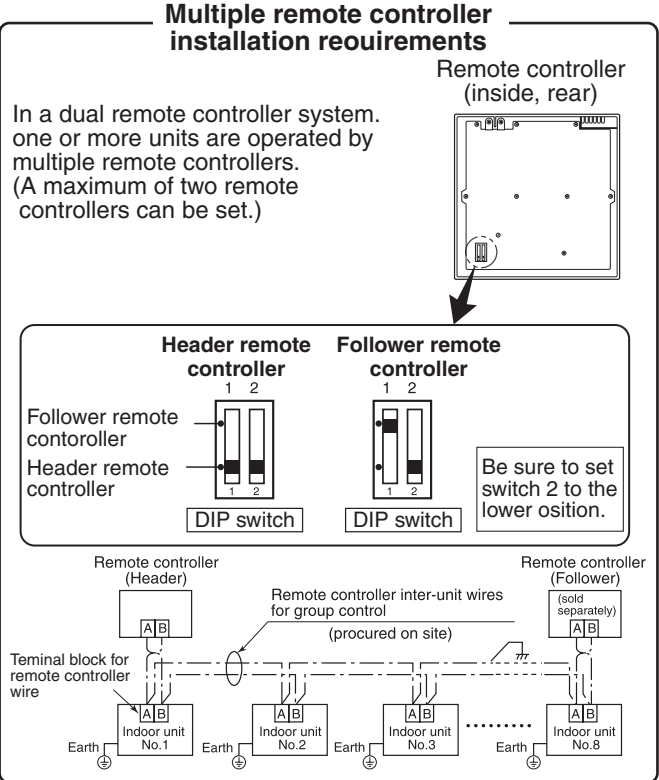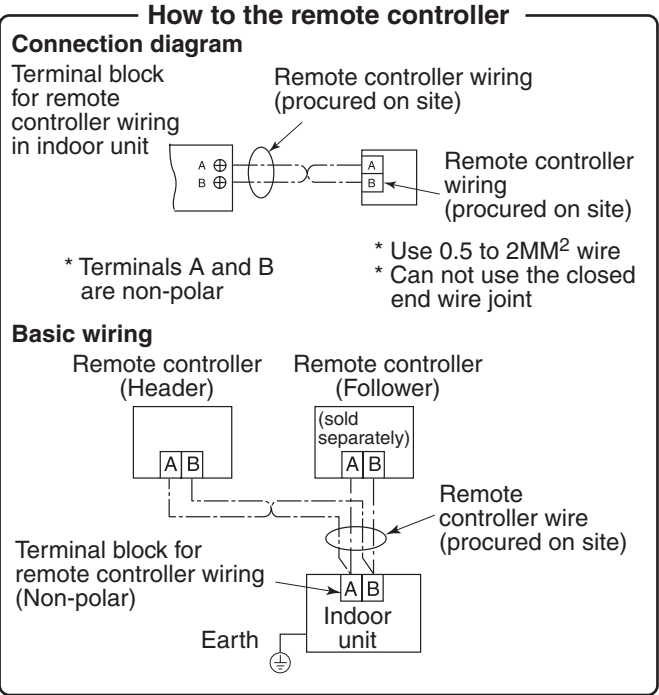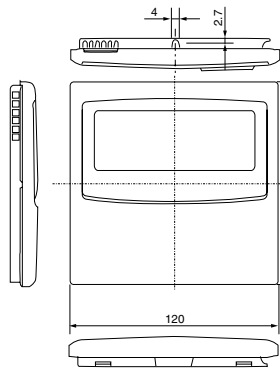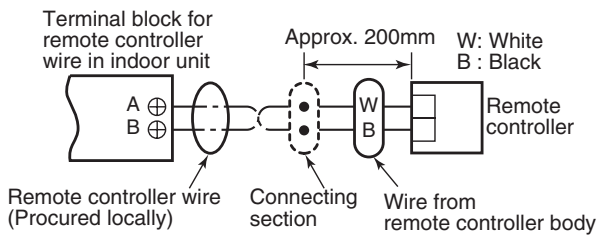
Type Name : RBC-AMT21E
Type Name : RBC-AMT21E
Part No. : 4316V194
Substitution : NO
Type of Remote : Wired
Reference : SX-A3JE
Product used : VRF, Light commercial
Note : *4-way (UT-E series)
    * Duct (BT-E series)
    * Under ceiling (CT-E series)

Category	
DI	NO
SDI	NO
MiNi-SMMS	NO
SMMS	OK
SHRM	NO
SMMS-i	NO
SHRM-i	NO

How to perform wiring of the remote controller

Connection diagram

Terminal block for remote controller wire in indoor unit

Approx. 200mm

W: White
B : Black

A ⊕
B ⊕

Remote controller

Remote controller wire (Procured locally)

Connecting section

Wire from remote controller body

Non polarity, 2 core wire is used.
Use 0.5mm² to 2mm² wire.

Basic wiring diagram

Remote controller (Header)

Remote controller (Follower)

(Sold separately)

Remote controller wire (Procured locally)

Terminal block for remote controller wire

1 2

Indoor unit

Earth
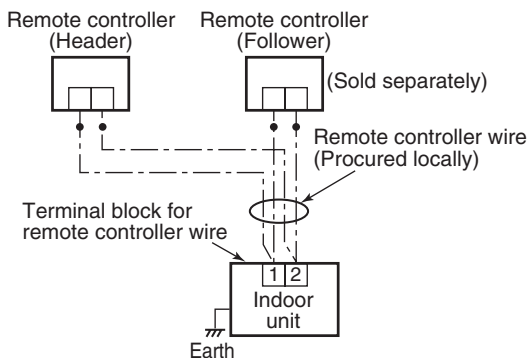
Multiple wiring diagram

(Max. 2 remote controllers can be set.)

Remote controller

Master remote controller

Remote controller address connector

Remote controller check

Secondary remote controller

Remote controller address

Remote controller (Header)

Remote controller inter-unit wiring for group control (Procured locally)

Remote controller (Follower)

(Sold separately)

Terminal block for remote controller cable

A	B		A	B		A	B		A	B

Indoor unit No.1

Indoor unit No.2

Indoor unit No.3

Indoor unit No.N

Earth   Earth   Earth   Earth

Remote controller test run setup

1. When the remote controller is used for the first time, it will not accept an operation until approximately 5 minutes after the power supply has been turned on.
This is not a fault, as this time is used to check the setup of the remote controller.

2. Push the ⌨ key after [TEST] has been displayed on the LCD by keeping the 🔧 button on the remote controller pressed for 4 seconds or more.
During the test run, [TEST] is displayed on the LCD. The temperature cannot be controlled if [TEST] is displayed.
Do not use [TEST] in a case other than a test run, otherwise an excessive load is applied to the air conditioner.

3. Use [TEST] in either HEAT, COOL, or FAN operation modes.
NOTE : The outdoor unit will not operate for approx. 3 minutes after the power supply has been turned on or theoperation has been stopped.

4. After the test run has finished, push the 🔧 button again to check the [TEST] symbol on the LCD has gone off. (For this remote controller, a release function of 60 minutes is provided to prevent continuous test runs.)
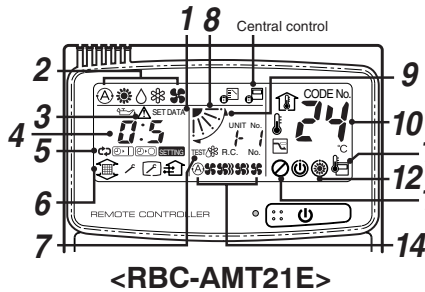
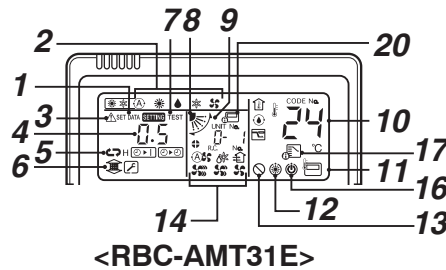# Part Name

■ Display section

RBC-AMT21E, RBC-AMT31E, RBC-AMT32E

In the display example, all indicators are displayed for the explanation.
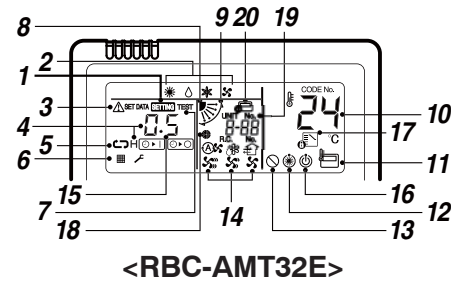In reality only, the selected contents are indicated.

- When turning on the main power switch and leak breaker at the first time, SETTING flashes on the display part of the remote controller.
- While this display is flashing, the model is being automatically confirmed.Accordingly, wait for a while after SETTING display has disappeared, and then use the remote controller.
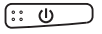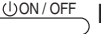

<RBC-AMT21E>   <RBC-AMT31E>   <RBC-AMT32E>

1 **SETTING display**
Displayed during setup of the timer etc.

2 **Operation mode select display**
The selected operation mode is displayed.

3 **CHECK display**
Displayed while the protective device works or a trouble occurs.

4 **Timer time display**
Time of the timer with H mark is displayed.
(When a trouble occurs, the check code is displayed.)

5 **Timer SET IN setup display**
When pushing the Timer SET IN button, the display of the timer is selected in order of [OFF] ⏲▸○ →
⟳ [OFF] repeat OFF timer → [ON] ⏲▸| → No display.

6 **Filter display**
If "FILTER ⊞ " is displayed, clean the air filter.

7 **TEST run display**
Displayed during a test run.

8 **Louver position display(4-way Air Discharge Cassette,2-way Air Discharge Cassette,1-way Air Discharge Cassette, Under Ceilingand and High Wall Type only (2H. 3H))**
Displays louver position.

9 **SWING display**
Displayed during up/down movement of the louver.

10 **Set up temperature display**
The selected set up temp. is displayed.

11 **Remote controller sensor display**
Displayed while the sensor of the remote controller is used.

12 **PRE-HEAT display (Heat-pump model only)**
Displayed when the heating operation starts or defrost operation is carried out.
While this indication is displayed, the indoor fan stops or the mode enters in LOW.

13 **No function display**
Displayed if there is no function even if the button is pushed.

14 **Air volume select display**
The selected air volume mode is displayed.
(AUTO) Ⓐ⚡   (HIGH) ⚡
(MED.) ⚡   (LOW) ⚡

15 **Louver Number display(exapmle:01, 02, 03, 04) (RBC-AMT32E only)**

16 **Operation ready display**
Displayed when cooling or heating operation is impossible because the outdoor temperature goes out of the operable range.

17 **Mode select control display (RBC-AMT21E on function)**
Displayed when pushing "Operation mode select ⬒ " button while the operation mode is fixed to heating or cooling by the system manager of the air conditioner.

18 **Louver lock display(4-way Air Discharge Cassette Type 2H series only) (RBC-AMT32E only)**
Displayed when there is a louver-locked unit in the group (including 1 indoor unit by 1 outdoor unit).

19 **Unit Number display (RBC-AMT32E only)**
Unit number of the indoor unit selected with the unit select button or abnormal indication of the indoor/outdoor unit.

20 **Central control display (RBC-AMT21E on function)**
Displayed when the air conditioner is used under the central control in combination with a central control remote controller.
In case the remote controller is disabled by the central control system, ⬒ flashes.The button operation is not accepted.
Even when you push ON/OFF, MODE, orTEMP. button, the button operation is not accepted.
(Settings made by the remote controller vary with the central control mode. For details, referto the Owner's Manual of the central control remote controller.)

■ Operation section

Push each button to select a desired operation.

• The details of the operation needs to be set up once, afterward, the air conditioner can be used by pushing ⟨:: ⏻⟩ (RBC-AMT21E) / ⟨⏻ ON / OFF⟩ button only.

<RBC-AMT21E>   **<RBC-AMT31E>**   **<RBC-AMT32E>**
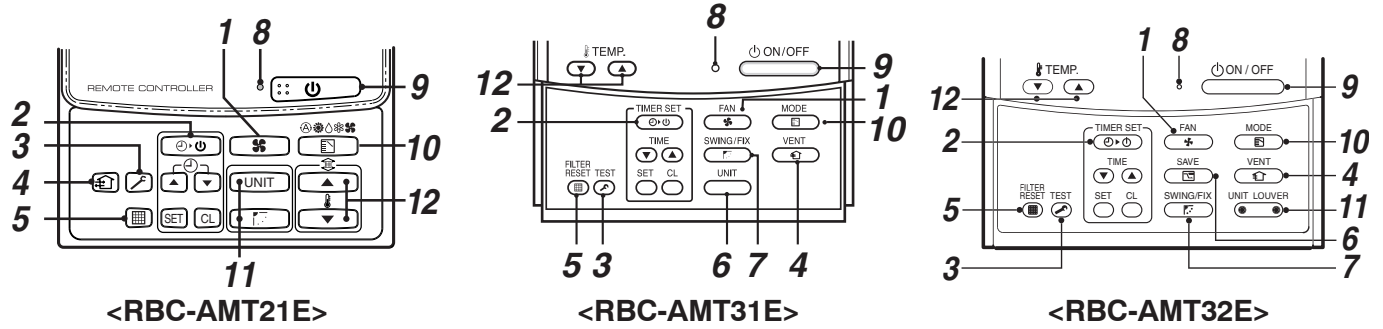
1 Air volume select button
Selects the desired air volume mode.

2 Timer set button
TIMER SET button is used when the timer is set up.

3 Check button
The CHECK button is used for the check operation. During normal operation, do not use this button.

4 Ventilation button
Ventilation button is used when a fan which is sold on the market is connected.
• If "No function ◯ " is displayed on the remote controller when pushing the Ventilation button, a fan is not connected.

5 Filter reset button
Resets (Erases) " ▦ FILTER" display.

6 Power save operation (RBC-AMT32E only)

7 Swing/Wind direction button
Selects automatic swing or setting the louver direction.
• This function is not provided to Concealed Duct Standard Type, High Static Pressure Type,Floor Standing Cabinet Type, Floor Standing Concealed Type, or Slim Duct Type.

8 Operation lamp
Lamp is lit during the operation.
Lamp is off when stopped.
Also it flashes when operating the protection device or abnormal time.

9 ⟨:: ⏻⟩ (RBC-AMT21E) / ⟨⏻ ON / OFF⟩ button
When the button is pushed, the operation starts,and it stops by pushing the button again.
When the operation has stopped, the operation lamp and all the displays disappear.

10 Operation mode select button
Selects desired operation mode.

11 Unit/Louver select button (RBC-AMT32E only)
Selects a unit number (left) and louver number(right).
UNIT: Selects an indoor unit when adjusting wind direction when multiple indoor units are controlled with one remote controller.
LOUVER (4-way Air Discharge CassetteType 2H series only):
Selects a louver when setting louver lock or wind direction adjustment independently.

12 Set up temperature button
Adjusts the room temperature.Set the desired set temperature by pushing ▮ TEMP. ⟨▾⟩ or ▮ TEMP. ⟨▴⟩ (⟨ ▾ ⟩ or ⟨ ▴ ⟩ **RBC-AMT21E**).

OPTION :
Remote controller sensor
Usually the TEMP. sensor of the indoor unit senses the temperature. The temperature on the surrounding of the remote controller can also be sensed.For details, contact the dealer from which you have purchased the air conditioner.
• In case that one remote controller controls the multiple indoor units, the setup operation is unavailable in group control.

2. Simple WIred Remote Controller

Type Name : RBC-AS21E
Part No. : 4316V195
Substitution : NO
Type of Remote : Wired
Reference : SX-A11JE
Product used : VRF, Light commercial
Note : *4-way (UT-E ser ies)
    * Duct (BT-E ser ies)
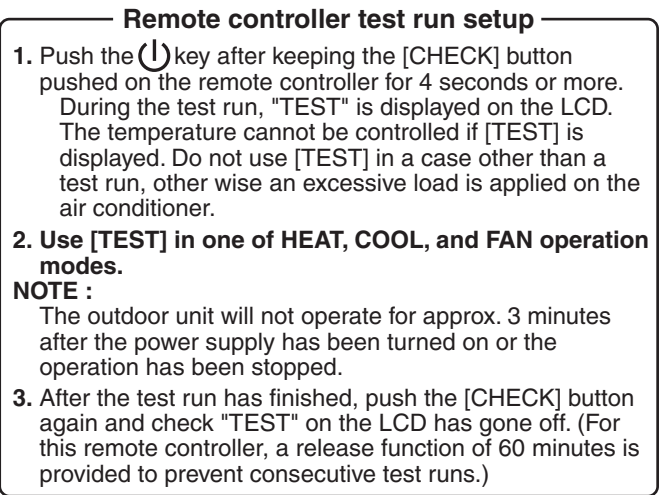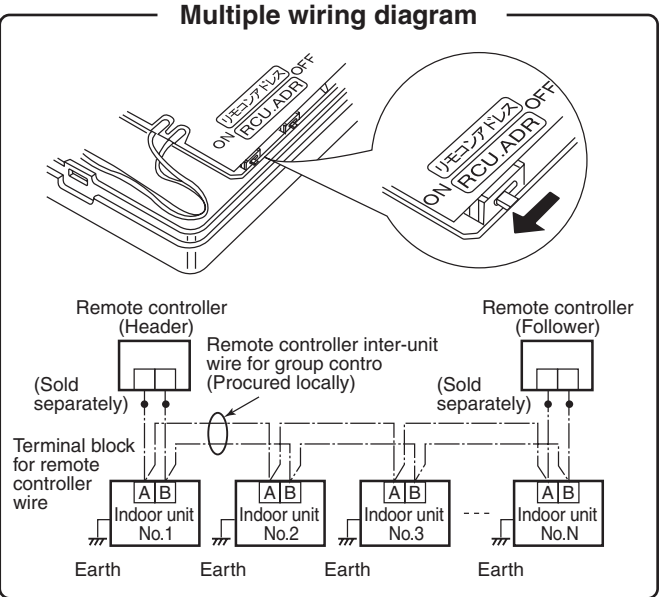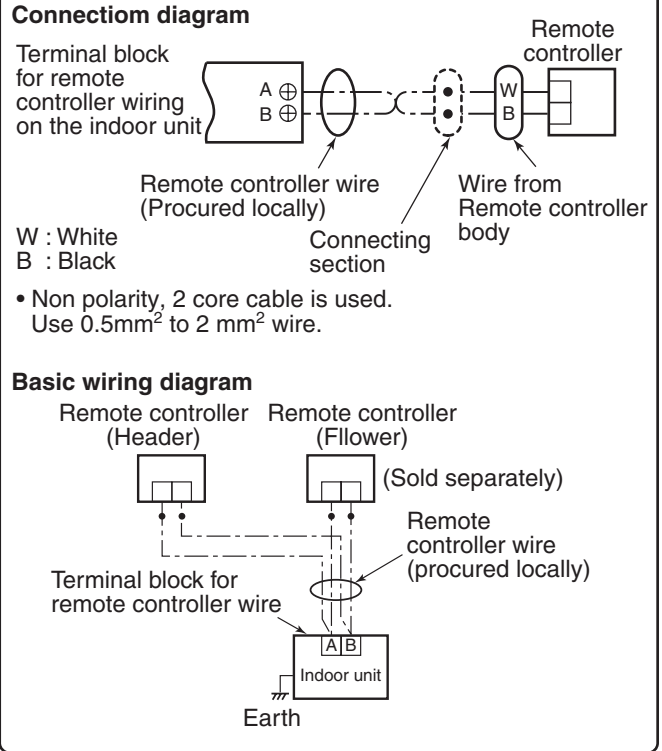   * Under ceiling (CT-E ser ies)

Type Name : RBC-AS21E2
Part No. : 43166004
Substitution : NO
Type of Remote : Wired
Reference : SX-A11JE2
Product used : VRF
Note : *4-way (4 ser ies)
    * Duct (2 ser ies)
    * Under ceiling (2 ser ies)
    * High-wall (2 ser ies)
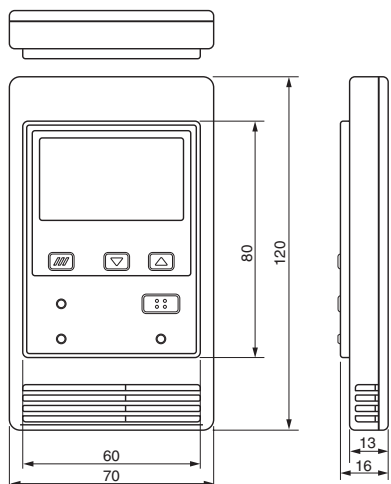
Category	
DI	OK
SDI	OK
MiNi-SMMS	OK
SMMS	OK
SHRM	OK
SMMS-i	OK
SHRM-i	OK

How to perform the wiring of the remote controller

Connectiom diagram

W : White
B : Black

• Non polarity, 2 core cable is used.
Use 0.5mm^2 to 2 mm^2 wire.

Basic wiring diagram

Multiple wiring diagram

Remote controller test run setup

1. Push the (|) key after keeping the [CHECK] button pushed on the remote controller for 4 seconds or more. During the test run, "TEST" is displayed on the LCD. The temperature cannot be controlled if [TEST] is displayed. Do not use [TEST] in a case other than a test run, other wise an excessive load is applied on the air conditioner.

2. Use [TEST] in one of HEAT, COOL, and FAN operation modes.
NOTE :
    The outdoor unit will not operate for approx. 3 minutes after the power supply has been turned on or the operation has been stopped.

3. After the test run has finished, push the [CHECK] button again and check "TEST" on the LCD has gone off. (For this remote controller, a release function of 60 minutes is provided to prevent consecutive test runs.)

Part Name

- For Cooling Only type, Ⓐ , ☀ and 🔆 are not displayed on LCD.
- Max. 8 indoor units can be operated by a remote controller.
- Once the operational items have been set, you can operate the previous condition by pushing the ⬚ button only.

The following display is for explanation only and differs from the real display.
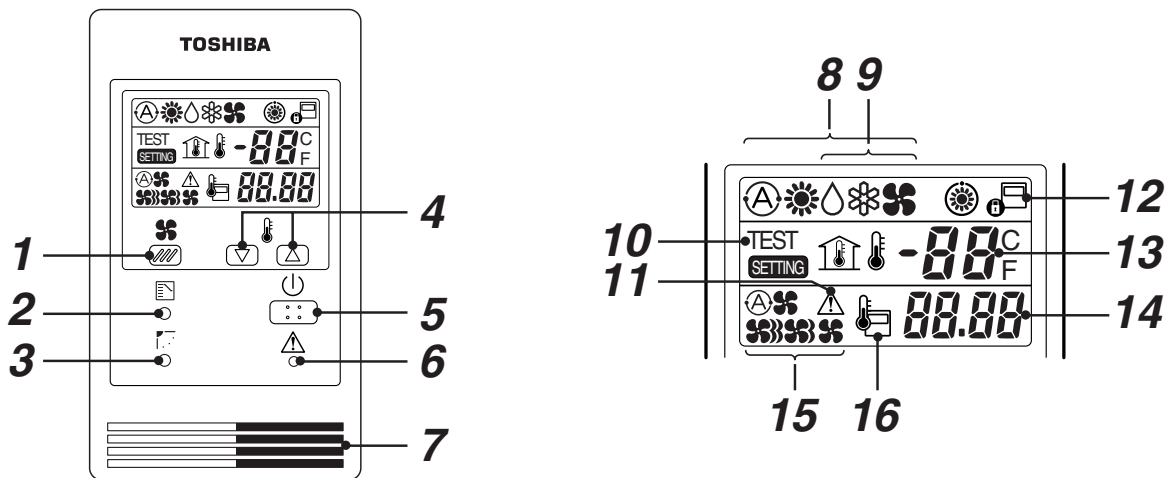
1 **Fan Speed button**

2 **Operation mode button**

3 **Swing/Air direction button**
The flap angle is changed.

4 **Temperature Setup button**
For every push of the △ button, the temperature increases by 1°C.
For every push of the ▽ button, the temperature decrease by 1°C.

5 ⏻ **[Start/Stop] button**

6 **Check button (Used in servicing)**
- Do not use this button in normal operation.

7 **Remote control temperature sensor**
Usually controlled by the indoor unit sensor, it can be changed to the remote controller. For details,contact the dealer who you purchased the air conditioner from. (When using a group control method, do not use the remote controller sensor.)

8 **Selected mode displays (Heat pump type)**
Any one of Ⓐ , ☀ , ◌ , ❄ or ❀ can be displayed.
While 🔆 is displayed, the indoor fan stops or the mode is set to Low speed setting.
Ⓐ [AUTO] mode is displayed on heat recovery type only.

9 **Selected mode displays (Cooling only type)**
Any one of ◌ , ❄ or ❀ can be displayed.

10 **TEST is displayed during the Test Run.**

11 ⚠ **(CHECK) is displayed when the protective device has operated, or a fault has occurred.**

12 🔒 **is displayed during the operation.**
If the remote controller setting is prohibited by the central remote controller, 🔒 will flash when the [Start/Stop], [Operation Select] or [Temp.Setup] button has been pushed and the change has not been accepted.

13 **The setup temperature is displayed.**

14 **Warning code is displayed when a fault has occurred.**

15 **Selected fan speed, Ⓐ❀ , ❀ , ❀ or ❀ displays.**

16 🖹 **is displayed when the remote controller sensor is used.**

- When turning on the power switch to the remote controller for the first time, the 🖹 flashes. While 🖹 is displayed, the automatic model check is operating. Operate the remote controller after 🖹 symbol has disappeared.

3. WIreless Remote Contoroller
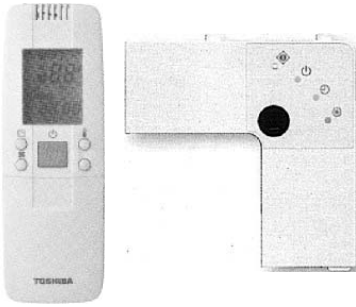
Type Name	: RBC-AX31U(W)-E
Part No.	: Not assigned
Substitution	: NO
Type of Remote	: Wireless remote controller kit
Reference	: NO
Product used	: Light commercial
Note	: *4-way

(Black type)

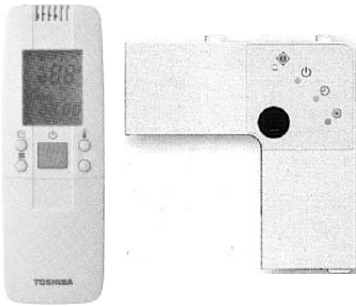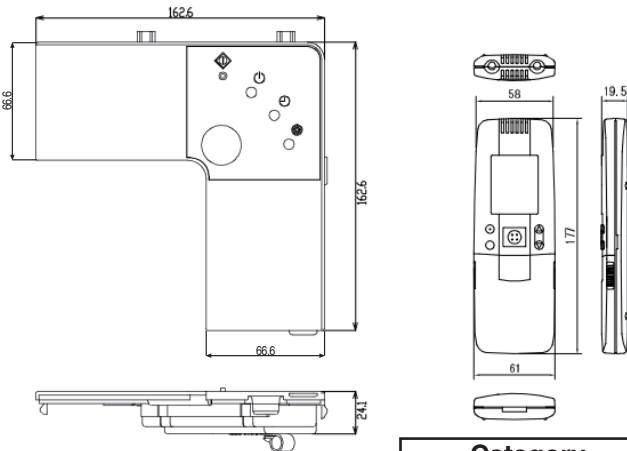| Type Name	: RBC-AX31U(WS)-E
Part No.	: Not assigned
Substitution	: NO
Type of Remote	: Wireless remote controller kit
Reference	: NO
Product used	: Light commercial
Note	: *4-way
	*Color of receiver panel is black

*Refer to Hand Unit and Receiver

Category	
DI	OK
SDI	OK
MiNi-SMMS	OK
SMMS	OK
SHRM	OK
SMMS-i	OK
SHRM-i	OK

How to wire the signal receiving

Connection diagram

Indoor unit — Signal receiving part

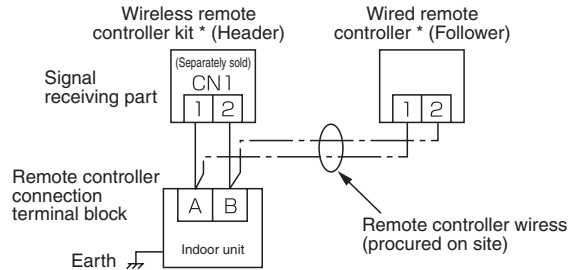Rmote controller connection terminal block — A B — White / Black — CNO01 / 2P white
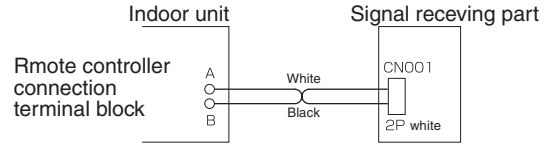
Connection

Connect the wires from the signal receiving part to the remote controller connection terminal block of the indoor unit. (The terminals are nonpolar.).
• Clamp the redundant portion of the wires with the clampers in the electric parts box.

Electric parts box
Indoor unit remote contoroller connection teriminal block
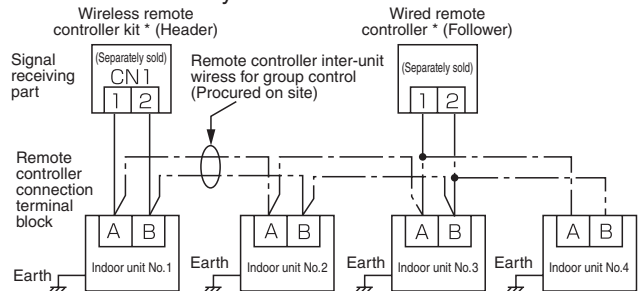Clampaers
Signal receiving part
Clamping claw
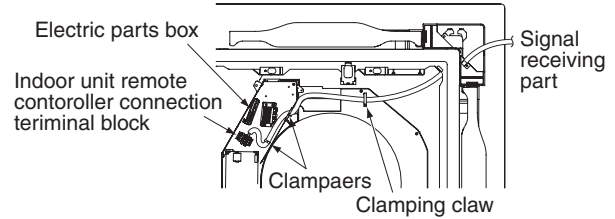
Controlling one indoor unit by two remote controllers

• Header and follower indoor units are operable even if they are attached to any indoor unit.

Wireless remote controller kit * (Header)
Wired remote controller * (Follower)
Signal receiving part
(Separately sold) CN 1 — 1 2
1 2
Remote controller connection terminal block — A B
Indoor unit
Earth
Remote controller wiress (procured on site)

* Use 0.5 to 2 mm^2 wires for on-site wiring.
* The total length of wires should be 400m or less.

Performing group control of multiple indoor units by two remote controllers.

• Header and follower indoor units are operable even if they are attached to any indoor unit.

Wireless remote controller kit * (Header)
Signal receiving part
(Separately sold) CN 1 — 1 2
Remote controller inter-unit wiress for group control (Procured on site)
Wired remote controller * (Follower)
(Separately sold) — 1 2
Remote controller connection terminal block
A B — Indoor unit No.1 — Earth
A B — Indoor unit No.2 — Earth
A B — Indoor unit No.3 — Earth
A B — Indoor unit No.4

* Use 0.5 to 2 mm^2 wires for on-site wiring.
* The total length of inter-unit wires should be 200m or less.

Remote controller test run setup

Perform usual operations using the remote controller to check for normal operation. A test run can be executed forcibly by using the following procedure if the room temperature is too high to turn off the thermostat.

1. Turn off the power of the air conditioner, and remove the screws to detach the signal receiving part cover.
2. Set bit 1 of DIP switch S003 on the signal receiving part P.C. board to ON.
3. Attach the signal receiving part to the ceiling panel by reversing the procedure of removal, and then turn on the power of the air conditioner.
4. Push [START/STOP] button on the wireless remote controller, and select COOL or HEAT with [Mode] button.
   (Temperature cannot be controlled during a test run.)
5. All LEDs on the signal receiving part flash during a test run.
6. After the test run has been completed, be sure to set bit 1 of DIP switch S003 to OFF and confirm that the LEDs do not flash.
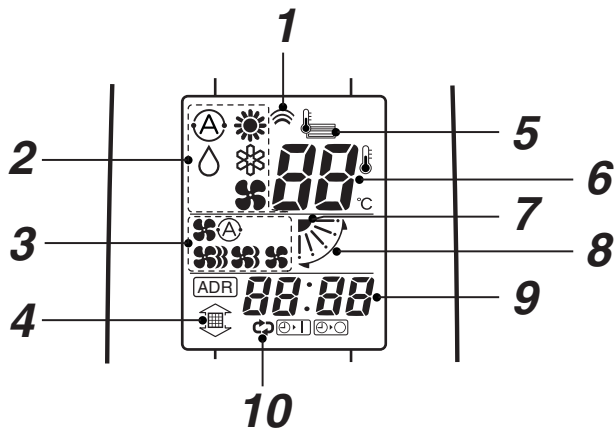7. Clamp the wires properly with the clamper secured together with the signal receiving part cover.

Note1: Use the forced test run only for test run because it overloads the air conditioner.

Note2: The remote controller is disabled for approx. 1 minute after power-on, but this is normal. The signal from the remote controller is received, but the receive data is discarded.
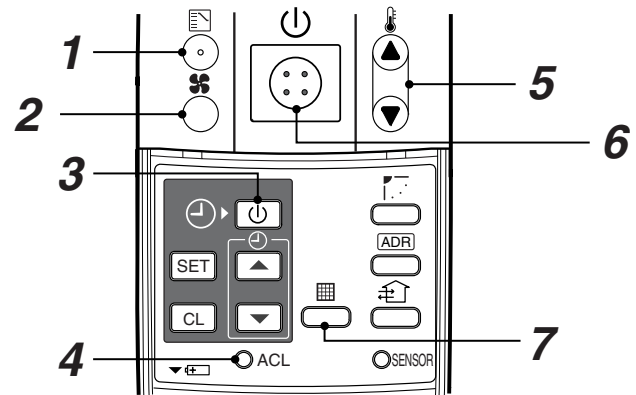
Part Name

<RBC-AX31U(W)-E, RBC-AX31U(WS)-E>

- When turning on the power supply for the first time, it will take up to 3 minutes before the **[SET DATA]** symbol will flash. This flashing display will last for around 1 minute.
  While this display is flashing, the model is being automatically confirmed.
  After the minute has passedand the [**SET DATA**] display has disappeared, you can then use the remote controller.

<Display section>

<Operation section>

1 Transmitting indication
Displayed while oerating the switches on the remote controller.

2 Mode display
The selected operation mode is displayed.
Ⓐ [AUTO] mode is displayed on heat recovery type only.

3 Fan mode select display
The selected fan mode is displayed.
(AUTO) Ⓐ❄
(HIGH) ❄
(MED.) ❄
(LOW) ❄

4 Filter display
If "FILTER 🏚 " is displayed,clean the air filter.

5 Remote temperature sensor display
Displayed when remote temperature sensor is selected.

6 Set up temperature display
The selected set up temp. is displayed.

7 Flap position display

8 SWINGdisplay
Displayed during up / down movement of the louver.

9 Timer time display
Time of the timer is displayed. (When a fault has occurred the check code is displayed.)

10 Timer SETIN setup display
When pushing the Timer SET button, the display of the timer is selected in order of [OFF] ⏲▸| →
[OFF] repeat OFF timer ↻] [ON] ⏲▸○ → No display.

1 Operation select button
Selects the desired operation mode.

2 Fan mode select button
Selects a fan mode.

3 Timer set button
TIMER SET button is used when the timer is setup.

4 Check button
CHECK button is used for check operation. During normal operation, do not use this button.

5 Temperature set button
Adjusts the required room temperature.
Set required set temperature by pushing ▲ or ▼ .

6 Start/Stop button
When this button is pushed the operation starts.
Push the button again and the operation will stop.
When the operation stops, the operation lamp and all the displays will disappear.

7 Filter reset button
Resets (Erases) "FILTER 🏚 " display.

OPTION :
Remote controller sensor
Usually the TEMP. sensor of the indoor unit is used to monitor the room's temperature. However it is possible to use the remote controller as a means of measuring the room temperature. For further details please contact the dealer who you purchased the air conditioner from. For details, contact the dealer from which you have purchased the air conditioner.

NOTE :
When a mode prohibited by the central control is selected in the local settings on an indoor unit and you want to change another setting of the indoor unit, select the prohibited mode on the remote controller before configuring the setting you want to change.

< Hand Unit and Receiver >
RBC-AX31U(W)-E (Except North America)
RBC-AX31U(WS)-E (Except North America)
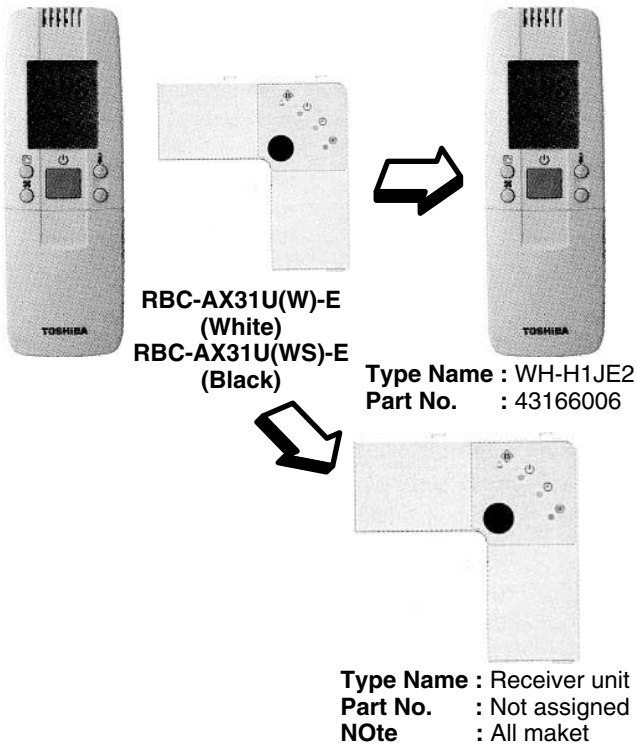
**RBC-AX31U(W)-E
(White)
RBC-AX31U(WS)-E
(Black)**

Type Name : WH-H1JE2
Part No.   : 43166006

Type Name : Receiver unit
Part No.   : Not assigned
NOte   : All maket

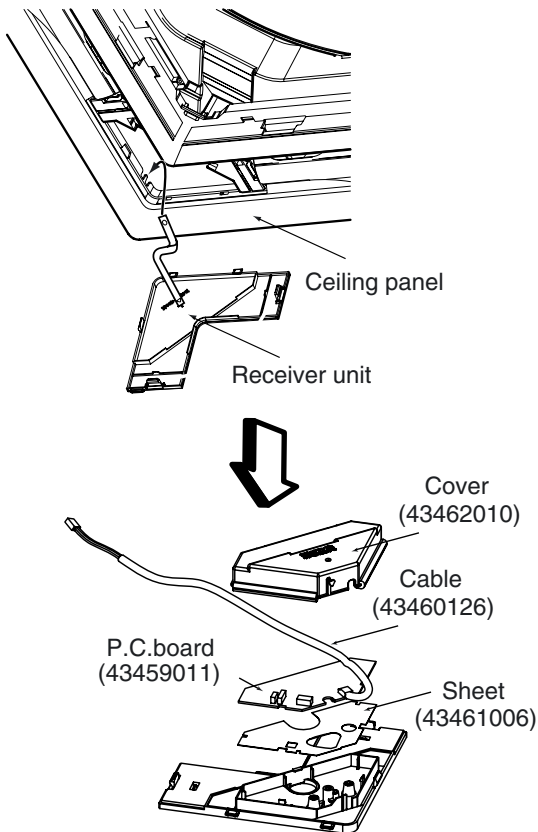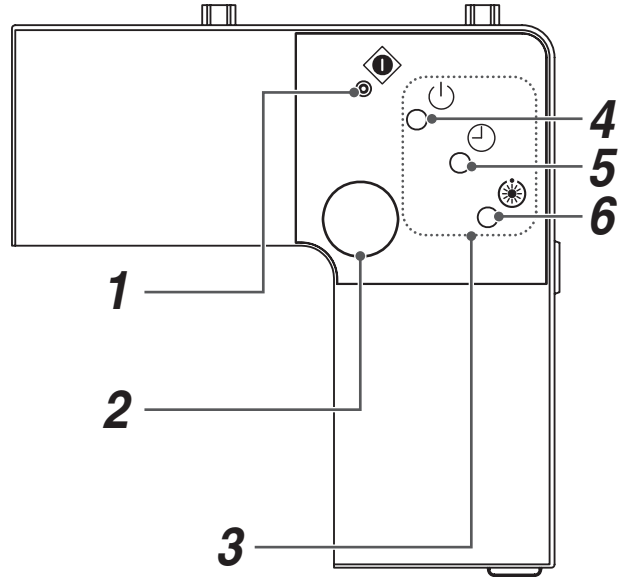|	
Type Name	: RBC-AX31U(W)-E
Part No.	: Not assigned
Substitution	: NO
Type of Remote	: Wireless
Reference	: NO
Product used	: Light commercial
Note	: All market except North America
	: Hand Unit can be supplied separately

Ceiling panel

Receiver unit

Cover
(43462010)

Cable
(43460126)

P.C.board
(43459011)

Sheet
(43461006)

Signal Receiving Part Name

Example: Start/Stop button → $\bigcirc$

1 **Emergency operation button**

2 **Signal receiver**
Receives signals from the remote controller.

3 **LEDs**
Any of these LEDs flashes during an error state.

4 **Run LED (green)**
Lights while the air conditioner is working.

5 **Timer LED (green)**
Lights while the timer is reserved.

6 **Not Ready LED (orange)**
 • Lights in the heating mode at the beginning of operation or during defrosting or when the temperature controller is activated.
 • Flashes during an error state.

NOTE:
• **Header/follower switch**
 Normally, set this switch to "HEADER" to use the remote controller as a header.
 The remote controller can be used together with the wired remote controller (sold separately).
• **Test run switch**
 Do not use this switch in normal operation, but use for service.
• **Address switches**
 Distinguish transmit signals and receive signals.
• Even if you push $\bigcirc$, $\boxed{\searrow}$ or $\textnormal{\textit{l}}$ when remote controller operation is disabled by the central control or other means, "pi" is heard 5 times and the button operation is not accepted.

Sensor Unit wiring

Indoor unit   Sensor unit P.C. board

Terminal block for
remote controller
wiring   ⊗——— White ———   CN001
                ⊗——— Black ———

                                   2P White

One Indoor unit 2 remote controller

Wireless   Wired
remote controller kit   remote controller
(Header)   (Follower)

Sensor CN1   (Sold separately)   1 2   (Sold separately)
unit   1 2

                                          Remote controller wire
                                          (Procured locally)
                                          (0.5 to 2mm²)
Terminal block for
remote controller wire

                        ⊠⊠   Indoor unit
Earth

Grop control of multiple
Indoor unit 2 remote Controller

Wireless   Wired
remote controller kit   remote controller
(Sold   (Header)   (Follower)
separately) CN1   Remote controller inter-unit   (Sold
        Sensor 1 2 wire for group control   1 2 separately)
        unit   (Procured locally)
                   (0.5 to 2mm²)
Terminal block
for remote
controller
wire   ⊠⊠   ⊠⊠   ⊠⊠   ⊠⊠
        Indoor unit Indoor unit Indoor unit - Indoor unit
        No.1   No.2   No.3   No.N
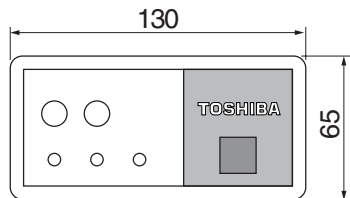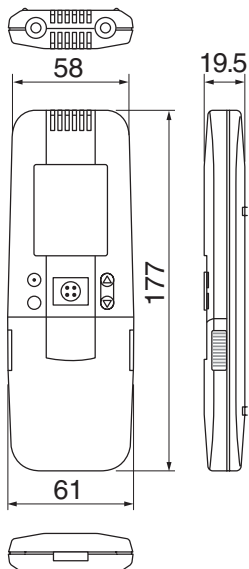
Earth   Earth   Earth   Earth

Type Name   : RBC-AX22CE2
Part No.   : Not assigned
Substitution   : NO
Type of Remote : Wireless remote controller kit
Reference   : NO
Product used   : Light commercial
Note   : 1-way (2 sereis)
                   : Under ceiling (2 sereis)
                    * Except North America
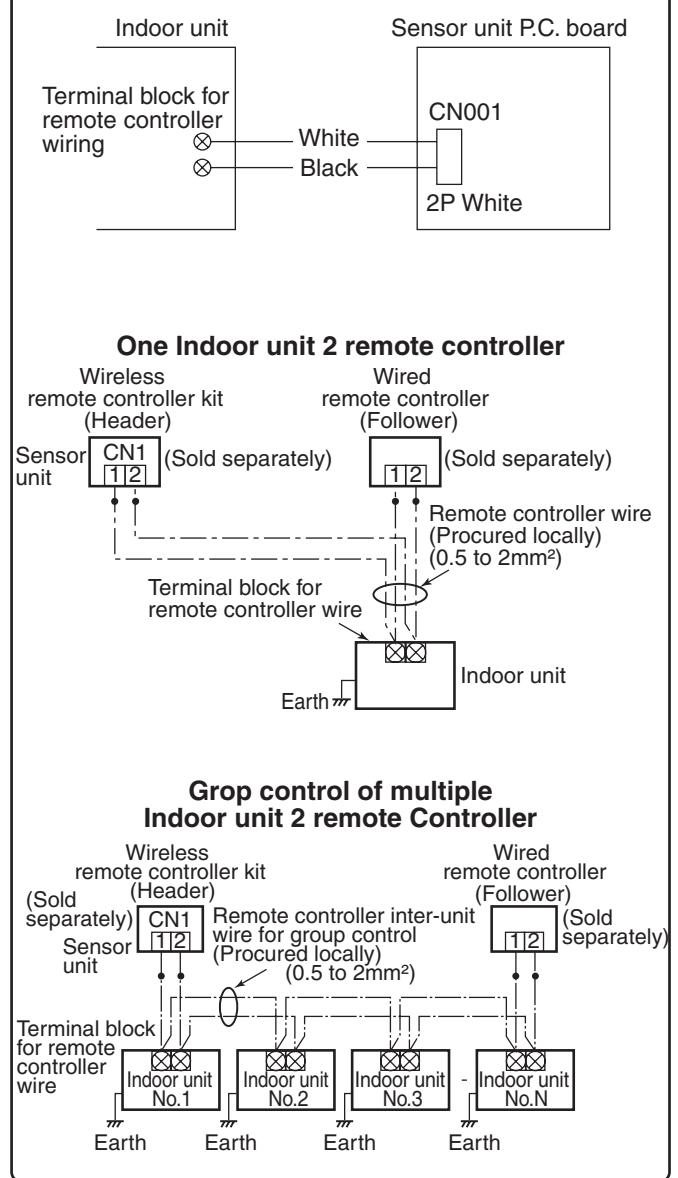
*Refer to Hand Unit and Receiver
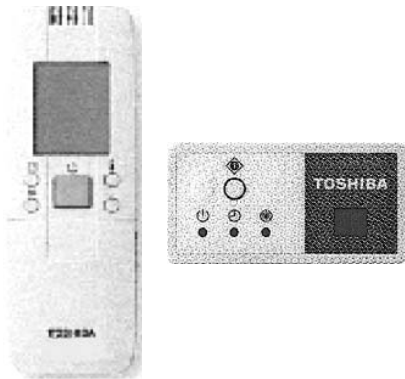
Type Name   : RBC-AX22CE
Part No.   : Not assigned
Substitution   : RBC-AX22CE2
Type of Remote : Wireless remote controller kit
Reference   : NO
Product used   : Light commercial
Note   : 1-way (2 ser ies),Under ceiling type

NO LONGER AVAILABLE

58   19.5   130

177   65

61

Category	
DI	OK
SDI	OK
MiNi-SMMS	OK
SMMS	OK
SHRM	OK
SMMS-i	OK
SHRM-i	OK

Part Name

Procedure	Description	
1	Turn on power of the air conditioner.	
	The operation is not accepted for 5 minutes when power has been turned on at first time after installation, and 1 minute when power has been turned on at the next time and after. After the specified time has passed, perform a test operation.	
2	Push [**Start/Stop**] button and change the operation mode to [**COOL**] or [**HEAT**] with [**Mode**] button. Then change the fan speed to [**High**] using [**Fan**] button.	
3	**Test cooling operation**	**Test heating operation**
	Set temperature to [18˚C] using [**Temperature set**] button.	Set temperature to [30˚C] using [**Temperature set**] button.
4	After checking the receiving sound "Pi", immediately push [**Temperature set**] button to set to [19˚C]	After checking the receiving sound "Pi", immediately push [**Temperature set**] button to set to [29˚C].
5	After checking the receiving sound "Pi", immediately push [**Temperature set**] button to set to [18˚C].	After checking the receiving sound "Pi", immediately push [**Temperature set**] button to set to [30˚C].
6	Then repeat the procedure **4** → **5** → **4** → **5**. After approx. 10 seconds, all the display lamps on the sensor part of wireless remote controller, [**Operation**] (Green), [**Timer**] (Green), and [**Ready**] (Yellow) flash and the air conditioner starts operation. If the lamps do not flash, repeat the procedure **2** and after.	
7	After the test operation, push [**Start/Stop**] button to stop the operation.	

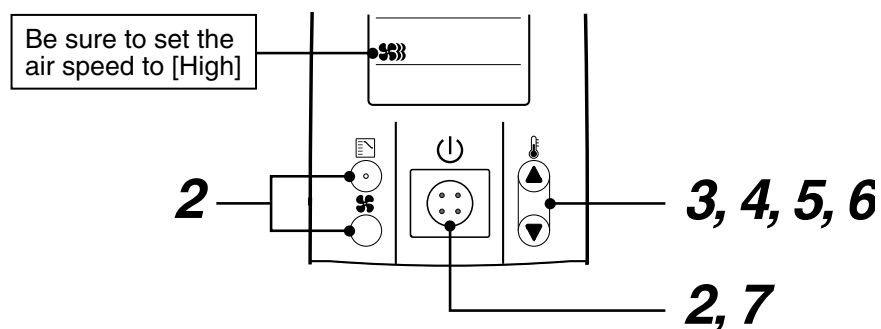## <Outline of test operation from the wireless remote controller>

Test cooling operation:
    Start → 18˚C → 19˚C → 18˚C → 19˚C → 18˚C → 19˚C → 18˚C → (Test operation) → Stop

Test heating operation:
    Start → 30˚C → 29˚C → 30˚C → 29˚C → 30˚C → 29˚C → 30˚C → (Test operation) → Stop
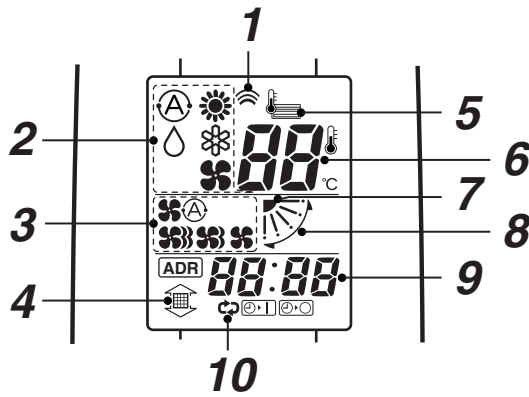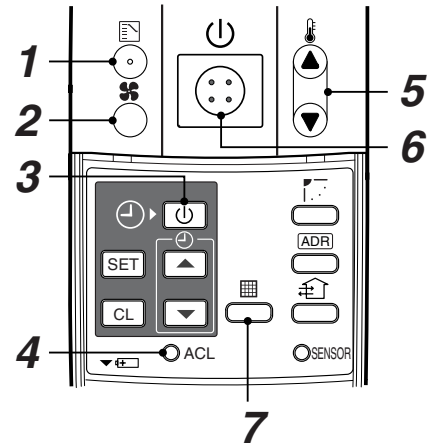
Part Name

RBC-AX22CE, RBC-AX22CE2
Operation Manual

- When turning on the power supply for the first time, it will take up to 3 minutes before the **[SET DATA]** symbol will flash.
  This flashing display will last for around 1 minute.
  While this display is flashing, the model is being automatically confirmed.
  After the minute has passed and the **[SET DATA]** display has disappeared, you can then use the remote controller.

(Display section)

(Operation section)

1 Transmitting indication
Displayed while operating the switches on the remote controller.

2 Mode display
The selected operation mode is displayed.
Ⓐ [AUTO] mode is displayed on heat recovery type only.

3 Fan mode select display
The selected fan mode is displayed.
(AUTO) Ⓐ❄
(HIGH) ❄
(MED.) ❄
(LOW) ❄

4 Filter display
If "FILTER 🗊 " is displayed, clean the air filter.

5 Remote temperature sensor display
Displayed when remote temperature sensor is selected.

6 Set up temperature display
The selected set up temp. is displayed.

7 Louver position display

8 SWING display
Displayed during up/down movement of the louver.

9 Timer time display
Time of the timer is displayed. (When a fault has occurred the check code is displayed.)

10 Timer SETIN setup display
When pushing the Timer SET button, the display of the timer is selected in order of [OFF] 🕐▸❘ →
[OFF] repeat OFF timer 🔁 → [ON] 🕐▸○ → No display.

1 Operation select button
Selects the desired operation mode.

2 Fan mode select button
Selects a fan mode.

3 Timer set button
TIMER SET button is used when the timer is setup.

4 Check button
CHECK button is used for check operation. During normal operation, do not use this button.

5 Temperature set button
Adjusts the required room temperature.
Set required set temperature by pushing (▲) or (▼) .

6 Start/Stop button
When this button is pushed the operation starts. Push the button again and the operation will stop. When the operation stops, the operation lamp and all the displays will disappear.

7 Filter reset button
Resets (Erases) "FILTER 🗊 " display.

OPTION :
Remote controller sensor
Usually the TEMP. sensor of the indoor unit is used to monitor the room's temperature. However it is possible to use the remote controller as a means of measuring the room temperature. For further details please contact the dealer who you purchased the air conditioner from. For details, contact the dealer from which you have purchased the air conditioner.
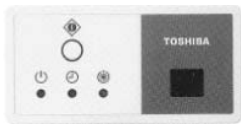
NOTE :
When a mode prohibited by the central control is selected in the local settings on an indoor unit and you want to change another setting of the indoor unit, select the prohibited mode on the remote controller before configuring the setting you want to change.

< Hand Unit and Receiver >
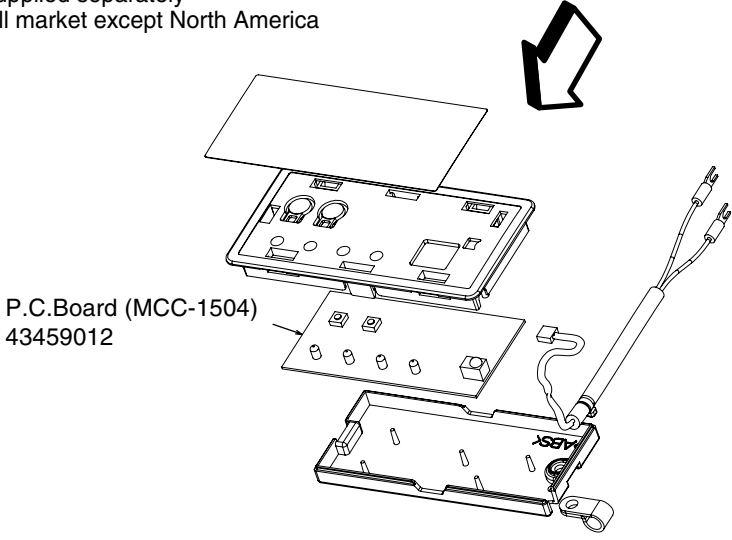**RBC-AX22CE2 (Except North America)**
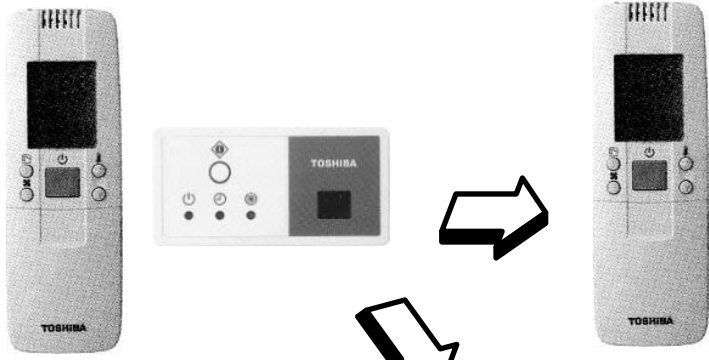
Type Name	: WH-H1JE2
Part No.	: 43166006

Type Name	: RBC-AX22CE2
Part No.	: Not assigned
Substitution	: NO
Type of Remote	: Wireless
Reference	: NO
Product used	: Light commercial
Note	: Hand unit and receiver can be supplied separately
	: All market except North America

Type Name	: Integral receiver
Part No.	: 4316V411
Note.	: All market
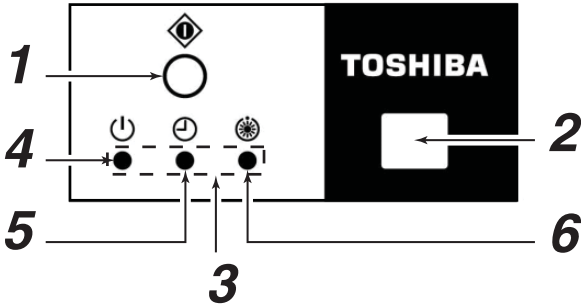
P.C.Board (MCC-1504)
43459012

Signal Receiving Part Name

1 **Temporary operation button**

2 **Signal receiving part**
   The signal sent from the remote controller is received.

3 **Display lamp**
   One of the displays will flash if afault has occurred.

4 ⏻ **lamp**
   This lamp goes on during operation.

5 🕐 **lamp**
   This lamp goes on when the timer is set.

6 ❇ **lamp**
   • In heating operation this lamp will come on in the following cases;
   The operation has started.
   The temp. controller has worked.
   The unit is under defrost operation.
   • This lamp will flash when a fault has occurred.

• If a "beep, beep" sound is heard, the MODE lamp on the display lamp goes on and the 🕐 lamp and ❇ lamp flash alternately, the operation to perform the desired mode has been unsuccessful.
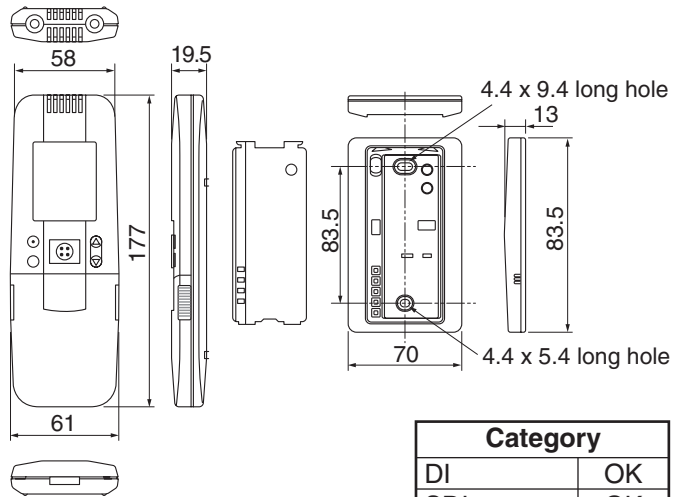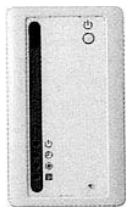
Type Name	: TCB-AX21E
Part No.	: Not assigned
Substitution	: TCB-AX21E2
Type of Remote	: Wireless remote controller kit
Reference	: NO
Product used	: Light commercial
Note	:

NO LONGER AVAILABLE

Category	
DI	OK
SDI	OK
MiNi-SMMS	OK
SMMS	OK
SHRM	OK
SMMS-i	OK
SHRM-i	OK

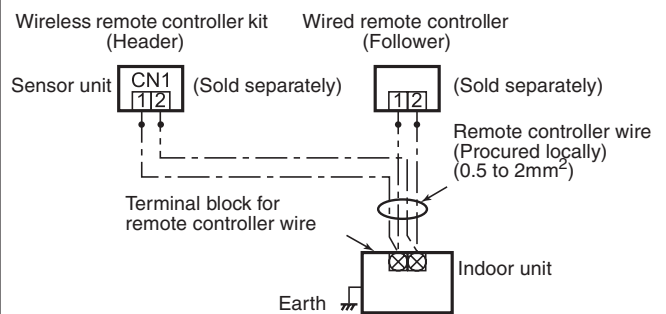|	
Type Name	: TCB-AX21E2
Part No.	: Not assigned
Substitution	: NO
Type of Remote	: Wireless remote controller kit
Reference	: NO
Product used	: Light commercial
Note	: *4-way, 2-way,1-way
	*Duct
	*Under ceiling
	*High-wall
	*Floor standing

*Refer to Hand Unit and Receiver

Wiring diagram

Indoor unit remote controller terminal board

Power wire from receiver unit

Separate receiver unit

1 — WHT — 1
2 — BLK — 2

Connector

wire of receiver unit (field supply)

Basic wiring diagram

Wireless remote controller kit (Header)

Wired controller (Follower)

Sensor unit   CN1 (Sold separately)   1 2 (Sold separately)

Remote controller wire (Procured locally) (0.5 to 2mm²)

Terminal block for remote controller wire

Indoor unit

Earth
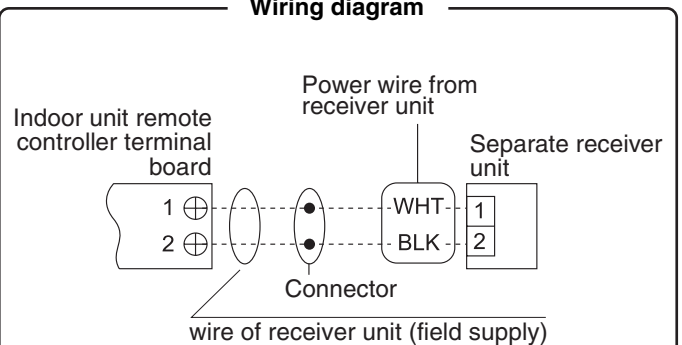
Group control of multiple indoor unit 2 remot controller

Wireless remote controller kit (Header)

Wired remote controller (Follower)

(Sold separately)   CN1   Remote controller inter-unit cable for group control (Procured locally) (0.5 to 2mm²)

Sensor unit   1 2

1 2 (Sold separately)

Terminal block for remote controller wire

Indoor unit No.1   Indoor unit No.2   Indoor unit No.3   Indoor unit No.N

Earth   Earth   Earth   Earth
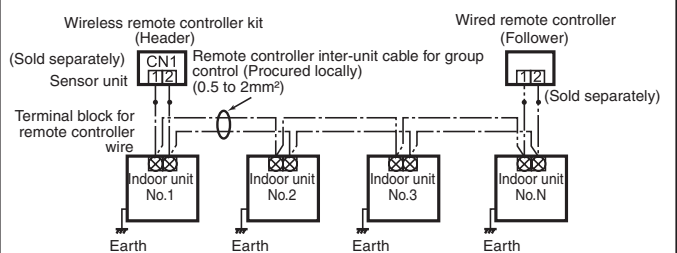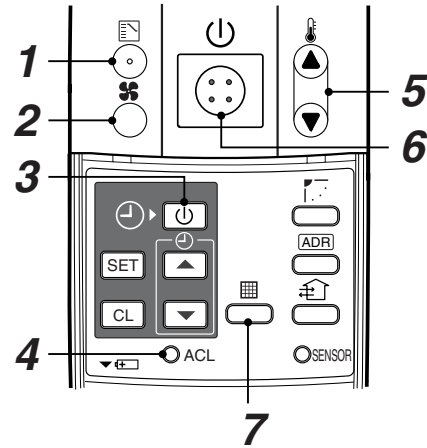
Part Name

TCB-AX21E, TCB-AX21E2
Operation Manual

- When turning on the power supply for the first time, it will take up to 3 minutes before the **[SET DATA]** symbol will flash.
  This flashing display will last for around 1 minute.
  While this display is flashing, the model is being automatically confirmed.
  After the minute has passed and the **[SET DATA]** display has disappeared, you can then use the remote controller.

(Display section)
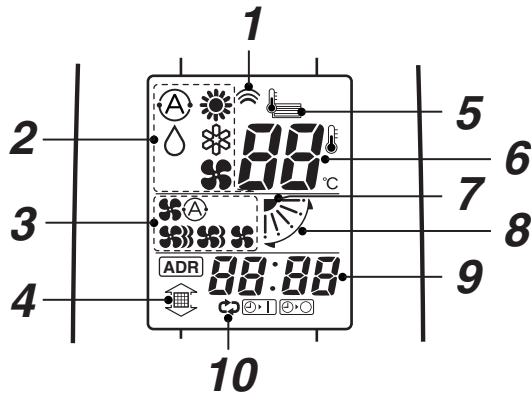
(Operation section)

(Display section)

1 Transmitting indication
Displayed while operating the switc hes on the remote controller.

2 Mode display
The selected operation mode is displayed.
Ⓐ [AUTO] mode is displayed on heat recovery type only.

3 Fan mode select display
The selected fan mode is displayed.
(AUTO) Ⓐ❅
(HIGH) ❅
(MED.) ❅
(LOW) ❅

4 Filter display
If "FILTER ❖ " is displayed, clean the air filter.

5 Remote temperature sensor display
Displayed when remote temperature sensor is selected.

6 Set up temperature display
The selected set up temp. is displayed.

7 Louver position display

8 SWING display
Displayed during up/down movement of the louver.

9 Timer time display
Time of the timer is displayed. (When a fault has occurred the check code is displayed.)

10 Timer SETIN setup display
When pushing the Timer SET button, the display of the timer is selected in order of [OFF] ⏲▶▏ → [OFF] repeat OFF timer ↺ → [ON] ⏲▶○ → No display.

(Operation section)

1 Operation select button
Selects the desired operation mode.

2 Fan mode select button
Selects a fan mode.

3 Timer set button
TIMER SET button is used when the timer is setup.

4 Check button
CHECK button is used for check operation. During normal operation, do not use this button.

5 Temperature set button
Adjusts the required room temperature.
Set required set temperature by pushing (▲) or (▼) .

6 Start/Stop button
When this button is pushed the operation starts.Push the button again and the operation will stop.When the operation stops, the operation lamp and all the displays will disappear.

7 Filter reset button
Resets (Erases) "FILTER ❖ " display.

OPTION :
Remote controller sensor
Usually the TEMP. sensor of the indoor unit is used to monitor the room's temperature. However it is possible to use the remote controller as a means of measuring the room temperature. For further details please contact the dealer who you purchased the air condi-tioner from. For details, contact the dealer from which you have purchased the air conditioner.

NOTE :
When a mode prohibited by the central control is selected in the local settings on an indoor unit and you want to change another setting of the indoor unit, select the prohibited mode on the remote controller before configuring the setting you want to change.

**< Hand Unit and Receiver >**
TCB-AX21E2 (Except North America)
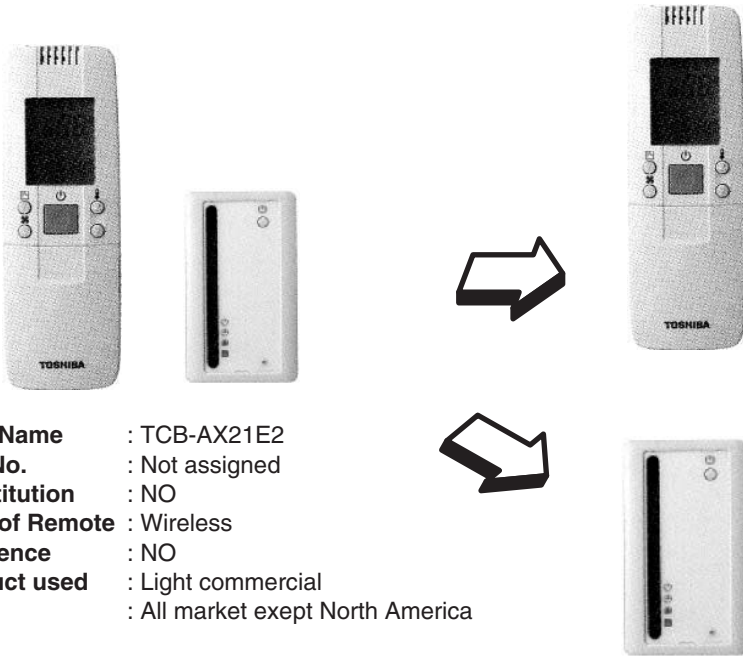
Type Name	: WH-H1JE2
Part No.	: 43166006

Type Name	: TCB-AX21E2
Part No.	: Not assigned
Substitution	: NO
Type of Remote	: Wireless
Reference	: NO
Product used	: Light commercial
Note	: All market exept North America

Type Name	: Receiver unit
Part No.	: 4316V409
Note	: All market

## Signal Receiving Part Name

1 **Temporary operation button**

2 **Signal receiving part**
The signal sent from the remote controller is received.

3 **Display lamp**
One of the displays will flash if afault has occurred.

4 ⏻ **lamp**
This lamp goes on during operation.

5 🕐 **lamp**
This lamp goes on when the timer is set.

6 ❋ **lamp**
• In heating operation this lamp will come on in the following cases;
  The operation has started.
  The temp. controller has worked.
  The unit is under defrost operation.
• This lamp will flash when afault has occurred.

7 ▦ **lamp**
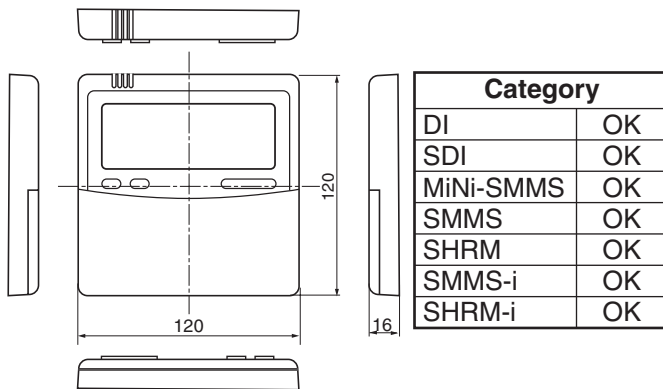This displays lights to indicate that it is time to clean the filter.
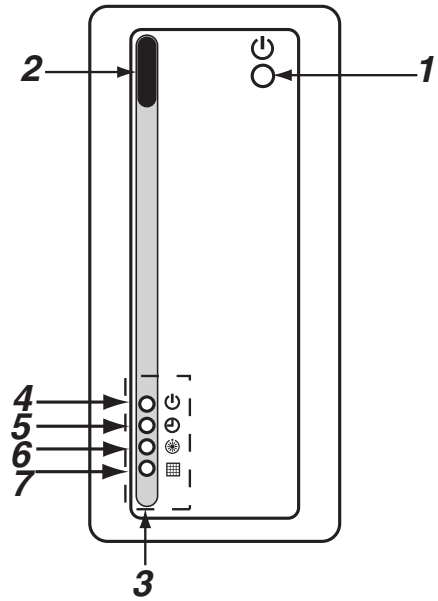
• If a "beep, beep" sound is heard, the MODE lamp on the display lamp goes on and the 🕐 lamp and ❋ lamp will flash alternately, the operation to perform the desired mode has been unsuccessful.

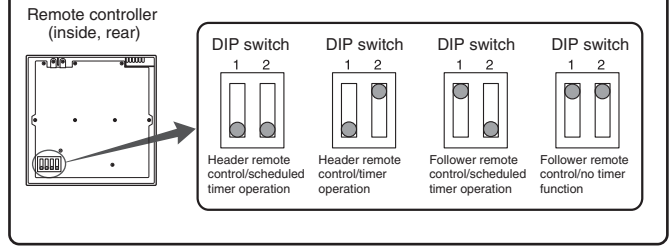# Central Remote Countroller for Schedule timer, Weekly timer, Central remote and ON-OFF Countroller

4. Schedule Timer
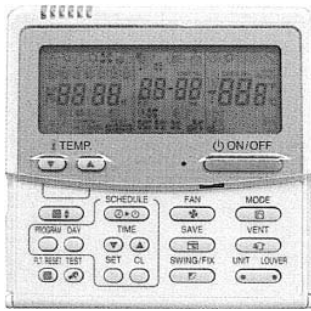
Type Name : RBC-AMS41E
Part No. : 43166012
Substitution : NO
Type of Remote : Schedule timer
Reference : SX-A5EE
Product used : VRF
Note :

Category	
DI	OK
SDI	OK
MiNi-SMMS	OK
SMMS	OK
SHRM	OK
SMMS-i	OK
SHRM-i	OK

How to wire the remote controller

Connection diagram

* AWG20 (Use 0.5 mm² wire)
* Can not use the closed end wire joint.
* Use UL wires rated 300 V.

Terminal block for remote controller wiring in indoor unit

Remote controller wiring (procured on site)

Remote controller

Remote controller terminal block

A ⊕
B ⊕

A
B

* Terminals A and B are non-polar

Basic wiring diagram

Remote controller (Header)

Remote controller (Follower) (sold separately)

A B

A B

Remote controller wire (procured on site)

Terminal block for remote controller wiring

A B

Indoor unit

Earth

Multiple wiring diagram

Remote controller (inside, rear)

| DIP switch 1 2	DIP switch 1 2	DIP switch 1 2	DIP switch 1 2
Header remote control/scheduled timer operation	Header remote control/timer operation	Follower remote control/scheduled timer operation	Follower remote control/no timer function

Remote controller test run setup

1. Push and hold the ⟟ button for 4 seconds or more unitil "TEST" appears in the LCD display, then press the ⏻ON/OFF button.
   • "TEST" appers in LCD display during the test run.
   • Temperature adjustment is not possible while "TEST" is displayd. The test run applies considerable load on the machine; therefore, it is recommended not to use the test mode beyond necessity

2. The test mode should be used in either HEAT or COOL mode.
   NOTE: The outdoor unit will not operate for approx. 3 minutes after power up, or the operation will stop.

3. Be sure the "TEST" indication in the LCD disappeared by pushing the ⟟ button agin after exiting the test mode. (The remote controller has a 60-minute off timer function to prevent continuous test run)

## Selecting the operation when the power is restored after a power outage

Follow the steps below to select and set the operation status of the air conditioner when power is restored after a power outage has occurred during a scheduled operation.

1. Hold down the ⟟ + ⊙▸⟟ buttons for at least 4 seconds. (This step can be performed whether the air conditioner is running or shut down.)

2. Push the TEMP. ▼ / ▲ buttons, and set code No.14.

3. Push the TIME ▼ / ▲ buttons, and set the setting data to 00 00 (factory setting) or 00 0 1.

4. Push the SET button. The setting data is entered successfully if the display stops blinking and lights up.

5. Push the ⟟ button.

* 00 00 (factory setting):
   No settings are sent when the power is restored, and the scheduled operation is resumed as soon as the program time is reached after the power has been restored.

* 00 0 1 :If there was a program which was to have run during the power outage, it is resumed in accordance with what was programmed. If there is no program, operation resumes in accordance with what was being performed prior to the power outage.
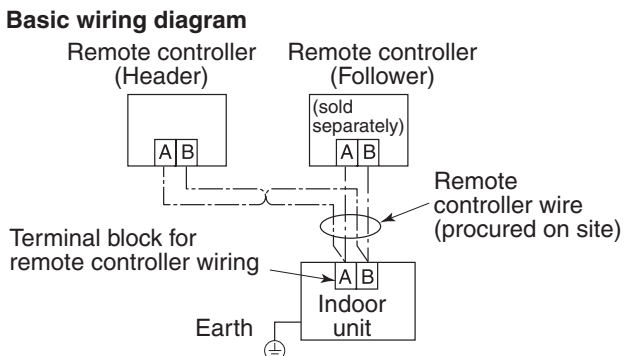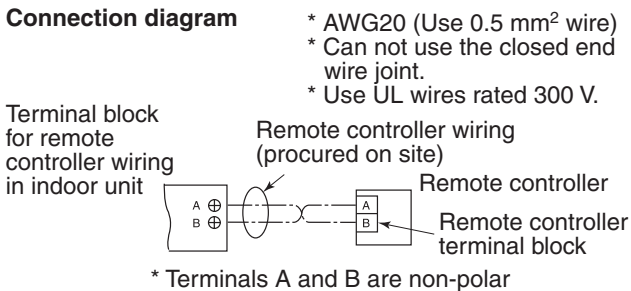
Part Name

All display are shown lighted only for the purposes of description
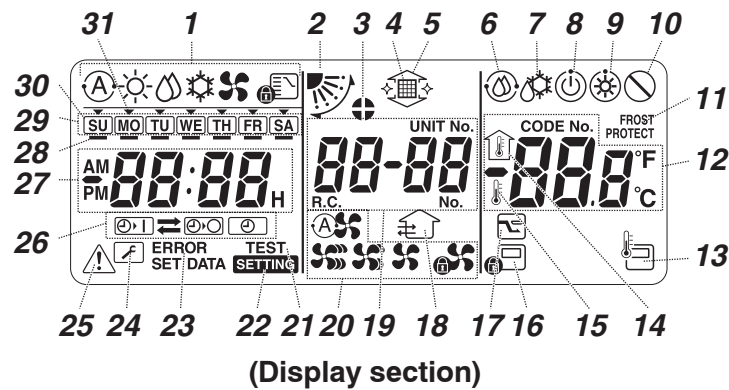
(Display section)

1 Operation mode display
This indicates the mode of operation which is currently selected.

2 Air direction
This indicates the air direction which has been selected.

3 Fixed louvers
This appears when the louvers are fixed.
* It also appears when the remote controller function has been selected.

4 Filter
This appears when it is time to inspect the filter.

5 Grille up/down
This appears when the grille is goes up or goes down.

6 Self-cleaning operation
This appears while self-cleaning is underway.

7 Defrosting
This appears while defrosting is underway during a heating operation.

8 Ready
This display appears on some models.

9 Heating ready (indoor fan stops while this is displayed)
This appears before a heating operation starts or while defrosting.

10 No function
This appears when a button is pushed but there is no corresponding function.

11 FROST PROTECT operation
This appears during a frost protection operation.

12 Numeric display
This displays the numeric value of the temperature, the numerical order of the trouble history events or the code numbers when the functions are set.

13 Remote control sensor
This appears when the remote control sensor is used.

14 Indoor temperature
This appears when the intake temperature is displayed on the numeric display.

15 Set temperature
This appears when the set temperature is displayed on the numeric display.

16 Central control
This appears when key operation limits are being enforced by the central controller or other unit or when key operation limits have been set in the program for the scheduled operation currently being executed.

17 Save operation
This appears while a save operation is being set or executed.

18 Ventilation operation
This appears while the ventilation fan is operating.

19 Numeric display
The numbers of the indoor units or numbers of the scheduled operation programs are displayed here.

20 Air speed display
This indicates the selected air speed.

21 TEST
This appears while a test run operation is being performed.

22 SETTING
This appears when the clock time, a program or the timer is being set.

23 ERROR
This appears when there is an error in the program setting input.

24 Servicing
This appears during servicing.

25 Inspect
This appears when trouble has occurred.

26 Timer function display
This indicates the function whose operation has been scheduled when a scheduled operation or timer operation has been set.

27 Numeric display
This indicates the present clock time, program operation time or timer execution time.

28 Operation reservation ▬
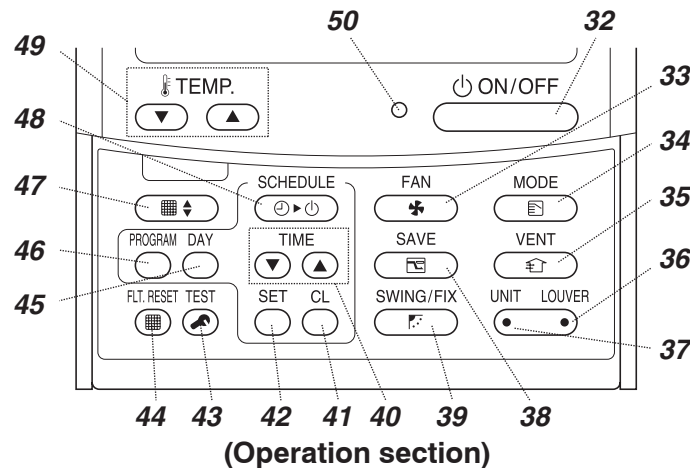This appears for the days of the week on which programs have been set.

29 Days of the week display

30 Special holiday ⬜
This appears for a day of the week which has been set as a special holiday.

31 Day arrow ▼
This indicates the current day of the week or day on which a program is set.

(Operation section)

32 ON/OFF button
Shortly after this button is pushed, operation starts, and operation stops shortly after the button is pushed again.

33 FAN button
Use this to select the desired air speed mode.

34 MODE button
Use this to select the desired operation mode.

35 VENT button
Use this when a ventilation fan or other unit, purchased on the market, has been connected.

36 LOUVER button
Use this to select the louvers when setting the air direction for each louver or when fixing the louvers in place.

37 UNIT button
Use this to select the indoor unit to be operated when operating a multiple number of indoor units using one remote controller.

38 SAVE button
Use this when performing save operations.

39 SWING/FIX button
Use this to select the desired air direction or swing operation.

40 TIME buttons
Use this to set the clock or adjust the time when the operating time is set.

41 CL button
Use this when clearing the setting of the program (for a scheduled operation or timer operation) which is being set.

42 SET button
Use this when entering the settings of the program (for a scheduled operation or timer operation) which is being set.

43 TEST button
Use this for servicing.
* This button is not normally used.

44 FLT.RESET button
Use this to reset (extinguish) the filter display.

45 DAY button
Use this to select the targeted day of the week when setting the clock or setting a program.

46 PROGRAM button
Use this when starting and ending the program settings for scheduled operations.

47 Grille button
Use this to raise or lower the grille.

48 SCHEDULE button
Use this when executing or releasing scheduled operations or when selecting ON or OFF for timer operations.

49 TEMP buttons
Push ⬇ and ⬆ to set the temperature to the desired value.
* These buttons are also used to raise or lower the grille when the grille function is used.

50 ON lamp
This lights during operation. It blinks when trouble has occurred or when a protection operation is performed.
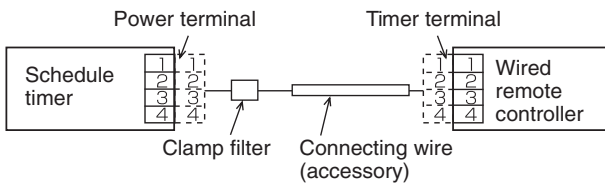
5. Weekly schedule Timer

Type Name	: TCB-EXS21TLE
Part No.	: Not assigned
Substitution	: NO
Type of Remote	: Schedule Timer
Reference	: NO
Product used	: VRF
Note	: *4 way
	*Duct
	*Ceiling
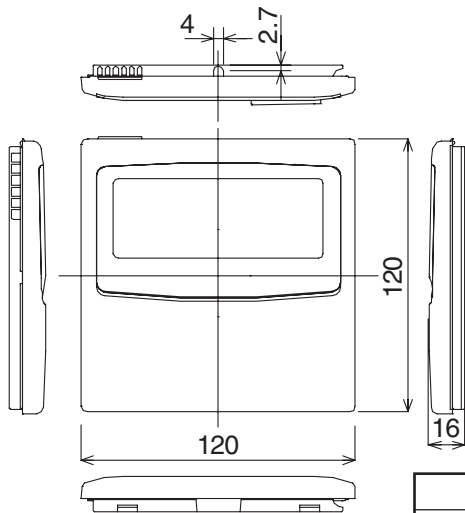
Category	
DI	OK
SDI	OK
MiNi-SMMS	OK
SMMS	OK
SHRM	OK
SMMS-i	OK
SHRM-i	OK

How to wire the remote controller

Wiring diagram

System diagram
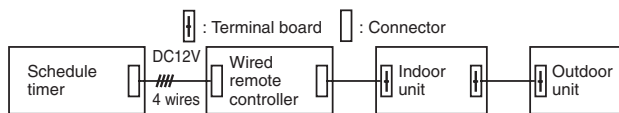
Basic diagram
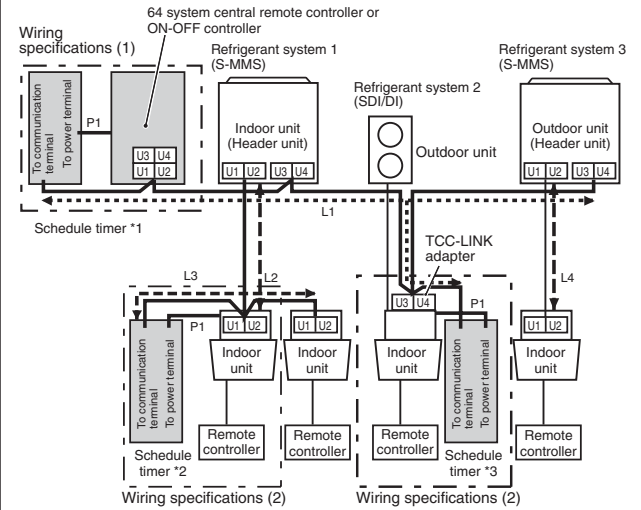
● **When installing multiple schedule timers, avoid the use of communication line.**
● **Connection diagram (Be sure to use the provided wires as the power wiring.)**

Wiring specifications (1)
If a 64 system central remote controller (or ON-OFF controller) is installed (power is supplied from the 64 system central remote controller):
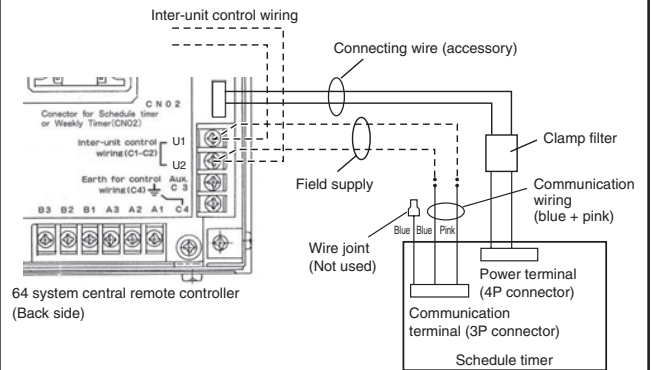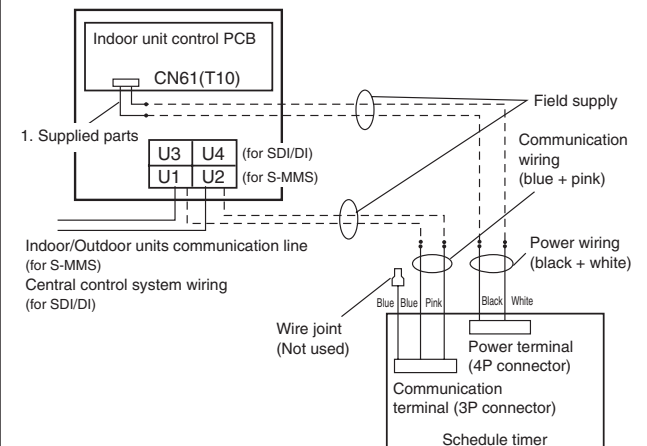

● **Wiring procedures**
Connect the provided connecting wire to the power terminal (4P connector) of the schedule timer.
The terminal attached to the clamp filter must be connected to the schedule timer.
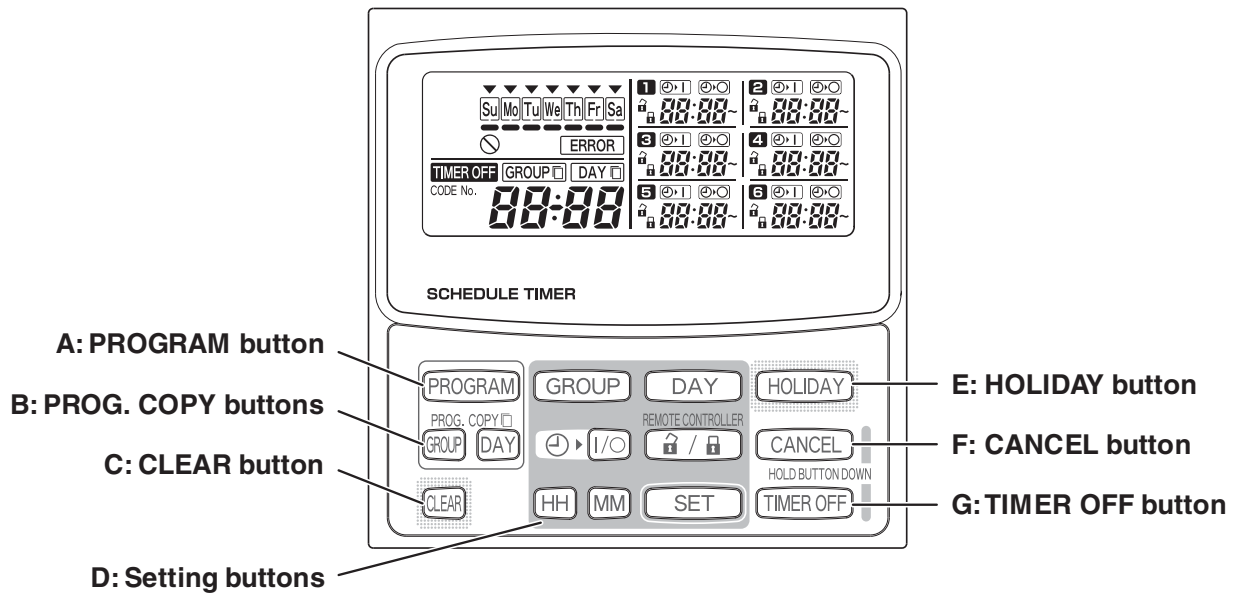
Wiring specifications (2)
If a 64 system central remote controller (or ON-OFF controller) is not installed (power is supplied from the indoor unit):

● **The length of the power wiring must be no more than 100 m.**

Part Name

SCHEDULE TIMER

A: PROGRAM button

B: PROG. COPY buttons

C: CLEAR button

D: Setting buttons

E: HOLIDAY button

F: CANCEL button

G: TIMER OFF button

A: PROGRAM button	Use to start setting programs and to enter program settings.
B: PROG. COPY buttons	Use to copy programs to specific days in a schedule. The GROUP button is not used.
C: CLEAR button	Press to clear the settings of the currently displayed program. • The current program is not cleared unless the PROGRAM button is pressed after pressing the CLEAR button.
D: Setting buttons	Use to make program settings and to set the present time.
GROUP	Press to set groups for programmed operation.
DAY	Press to set today's day and days of programmed operation.
HH MM	Press to set the present time and times used in programmed operation.
⏱▸I/○	Use to start/stop indoor units via the timer.
REMOTE CONTROLLER 🔓 / 🔒	Not used.
SET	Use to set programmed operation trigger time. • Program settings are not entered unless the PROGRAM button is pressed at the end of setting operations.
E: HOLIDAY button	Press to set and cancel holidays during a scheduled week of operation.
F: CANCEL button	Press to cancel the current program setting operation, copying operation or holiday setting operation. When the CANCEL button is held down for 2 seconds, the current setting operation or copying operation is canceled and the normal display returns.
G: TIMER OFF button	Press to turn the timer OFF when timer operation will not be used for a long period of time. When this button is held down for 2 seconds, **TIMER OFF** appears on the display. Programs cannot be run until the button is again held down for 2 seconds.

• Some of these buttons are disabled when SDI/DI is used with the schedule timer in the conventional weekly timer mode. If any of the disabled buttons is pressed, ⊘ appears on the display. For more information, contact your dealer.
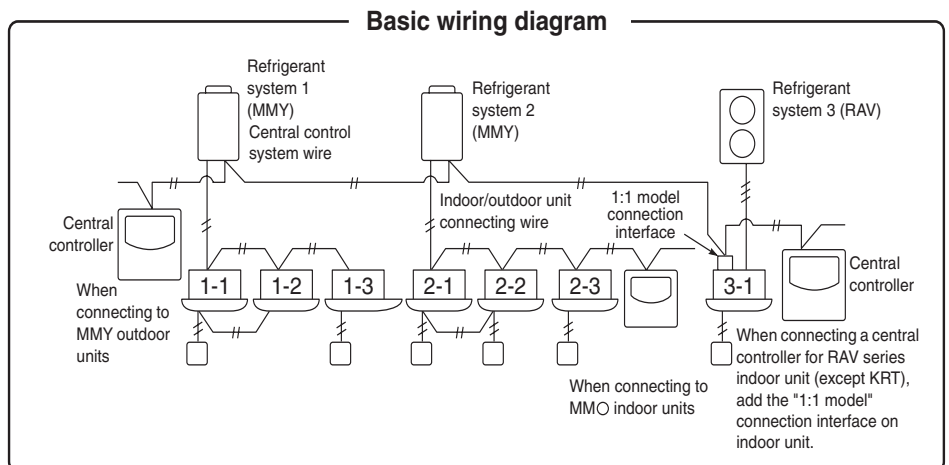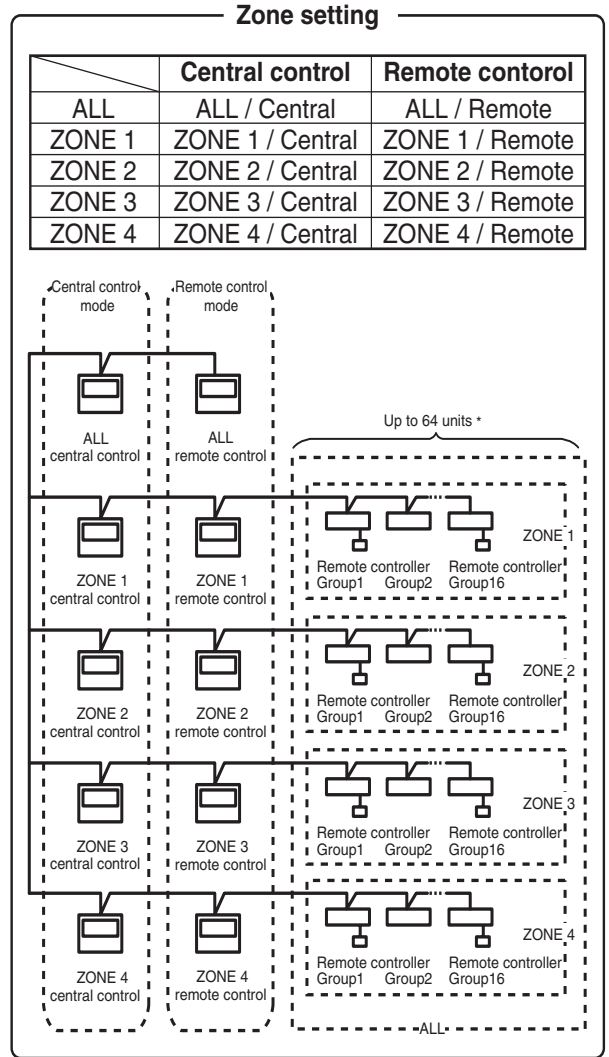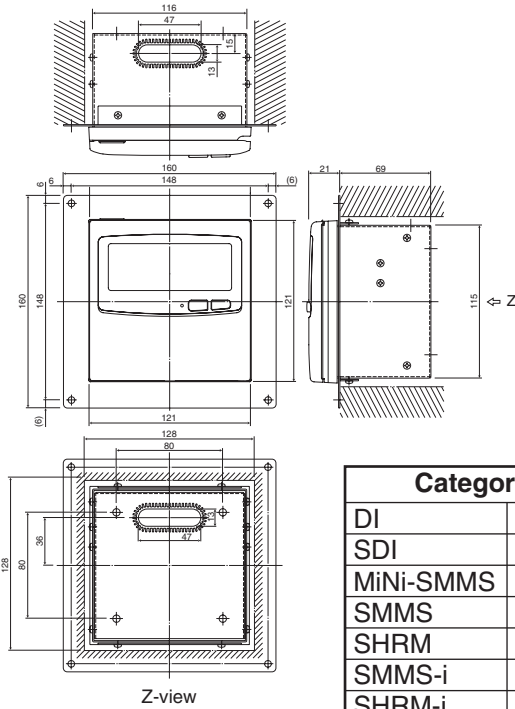
■ Display
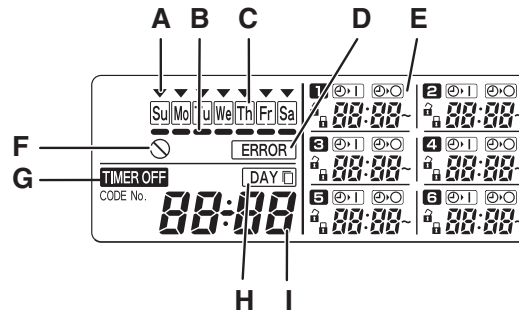
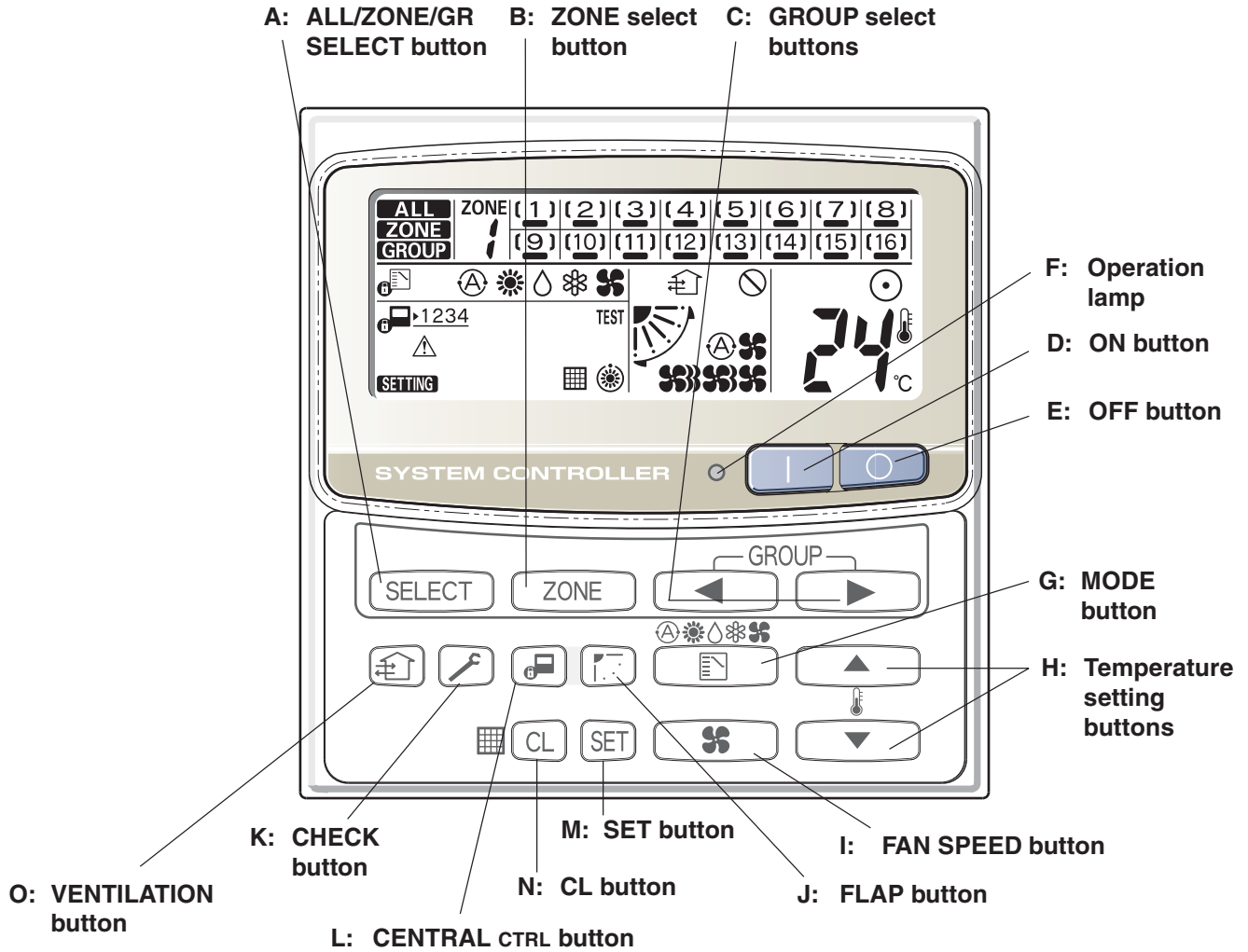|		
A: Today's day of the week (▼)	Indicates today's day of the week.	
B: Program schedule indication (▬)	Appears under days that are scheduled for program operation.	
C: Holiday schedule indication (☐)	Appears around scheduled holidays.	
D: ERROR indication	Displayed when a mistake is made during timer setting.	
E: Timer program	Displays set timer programs.	
F: ⊘ (Disabled Feature) indication	Displayed if the selected feature was disabled during installation.	
G: TIMER OFF indication	Displayed when the timer has been turned OFF.	
H: Copy mode indication	Displayed when copying a program into a day of the schedule.	
I: Present time	Displays the present time on a 24-hour clock. Also, displays settings in the various setting modes.	

6. Central Remote Controller
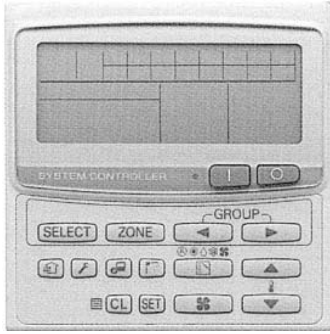
Type Name : TCB-SC642TLE / TBC-SC642TLE2
Part No. : Not assigned
Substitution : TCB-SC642TLE2
Type of Remote : Central remote controller
Reference : NO
Product used : VRF
Note :

NO LONGER AVAILABLE

Z-view

Category	
DI	OK
SDI	OK
MiNi-SMMS	OK
SMMS	OK
SHRM	OK
SMMS-i	OK
SHRM-i	OK

Zone setting

	Central control	Remote contorol
ALL	ALL / Central	ALL / Remote
ZONE 1	ZONE 1 / Central	ZONE 1 / Remote
ZONE 2	ZONE 2 / Central	ZONE 2 / Remote
ZONE 3	ZONE 3 / Central	ZONE 3 / Remote
ZONE 4	ZONE 4 / Central	ZONE 4 / Remote

Basic wiring diagram

Part Name

A: ALL/ZONE/GR SELECT button
B: ZONE select button
C: GROUP select buttons
F: Operation lamp
D: ON button
E: OFF button
G: MODE button
H: Temperature setting buttons
I: FAN SPEED button
J: FLAP button
K: CHECK button
L: CENTRAL CTRL button
M: SET button
N: CL button
O: VENTILATION button

A: ALL/ZONE/GR SELECT button	Use this button to select one of the following:
	ALL: Used for turning all the air conditioners on and off.
	ZONE: Used for turning all the air conditioners of each zone on and off.
	GROUP: Used for turning all the air conditioners of each group on and off.
NOTE	**A maximum of four zones and 16 groups (units) in a zone can be set.**
B: ZONE select button ⌐ZONE⌐	Use this button to select a zone (1 to 4) to operate individually.
C: GROUP select buttons ◄ ►	Use these buttons to select a group (1 to 16) to operate individually.

■ Functions of buttons (Continued)

D: ON button	⬜	This button is for turning the selected air conditioner on.
E: OFF button	⬜	This button is for turning the selected air conditioner off.
F: Operation lamp		This lamp lights when the unit is turned on.
G: MODE button ▨		Use this button to select one of the following five operations:
	(AUTO)	Ⓐ : Used to automatically set cooling or heating operation. **Some models are not provided with a mode for automatically setting the cooling or heating operation.** (temperature range: 18 to 29 C)
	(HEAT)	☀ : Used for normal heating operation. **For heat pump type, heat recovery type** (temperature range: 18 to 29 C)
	(DRY)	◊ : Used for dehumidifying without changing the room tempe rature. (temperature range: 18 to 29 C)
	(COOL)	❄ : Used for normal cooling operation. (temperature range: 18 to 29 C)
	(FAN)	❀ : Used to run the fan only, without heating or cooling operation.
	NOTE	When the ▨ indication is displayed, you cannot change the mode from ❄ and ◊ or ☀ to ❄ or ❄ and ◊ . To change the mode, turn off all units once then select the mode again.
H: Temperature setting buttons	▲ / ▼	▲ : Press this button to increase the temperature setting. ▼ : Press this button to decrease the temperature setting.
I: FAN SPEED button	❀	
	(AUTO)	Ⓐ❀: The air conditioner automatically decides the fan speed.
	(HI.)	❀ : High fan speed.
	(MED.)	❀ : Medium fan speed.
	(LO.)	❀ : Low fan speed.
J: FLAP button ▨ (↖)		1. Use this button to set the airflow direction to a specific angle. The airflow direction is displayed on the remote control unit. Operation mode Number of airflow direction settings ❄ (COOL) or ◊ (DRY) 3 ☀ (HEAT) or ❀ (FAN) 5 Ⓐ (AUTO) Cooling mode: 3 Heating mode: 5
	CAUTION	• **In the cool mode and dry mode, when the flaps are set in a downward position, condensation may form and drip around the vent. Do not move the flap with your hands.**
	NOTE	This function is available only for 4-Way air discharge cassette type and Under ceiling type.
	(⌒)	2. Use this button to make the airflow direction sweep up and down automatically. Press this button several times until the (⌒) symbol appears on the display.
	NOTE	1) The flap setting can be performed only for units that have no remote controllers. 2) In the ALL or ZONE modes, no flap settings can be performed. If necessary, you should select the GR mode and use the FLAP button.

■ Functions of buttons (Continued)

K: CHECK button ✎	This button is used only when servicing the air conditioner.
⚠ **CAUTION**	**Do not use the CHECK button for normal operation.**
L: CENTRAL CTRL button ⊡	Use this button to inhibit the individual operation by a remote controller as follows: ⊡ ›1234 1: Individual ON/OFF operation is inhibited. 2: Individual ON/OFF, MODE and Temperature setting operation is inhibited. 3: Individual MODE and Temperature setting operation is inhibited. 4: Individual MODE operation is inhibited. No indication: Central control is cleared. (Individual operation)
M: SET button SET	This button is used for setting the indoor unit's address when installing the air conditioner.
NOTE	**Do not use the SET button for normal operation.**
N: CL button CL	Use this button to reset the filter sign ▦. The air conditioner has a timer for the filter change and informs you when the filter needs cleaning.
O: VENTILATION button ⊡	Use this button when you installed a fan available in the market. Pressing this button turns the fan on and off. When turning off the air conditioner, the fan will also turn off. While the fan is operating, ⊡ will appear in the display. If ⊘ is displayed when pressing the ventilation button, no fans are installed.

■ Display
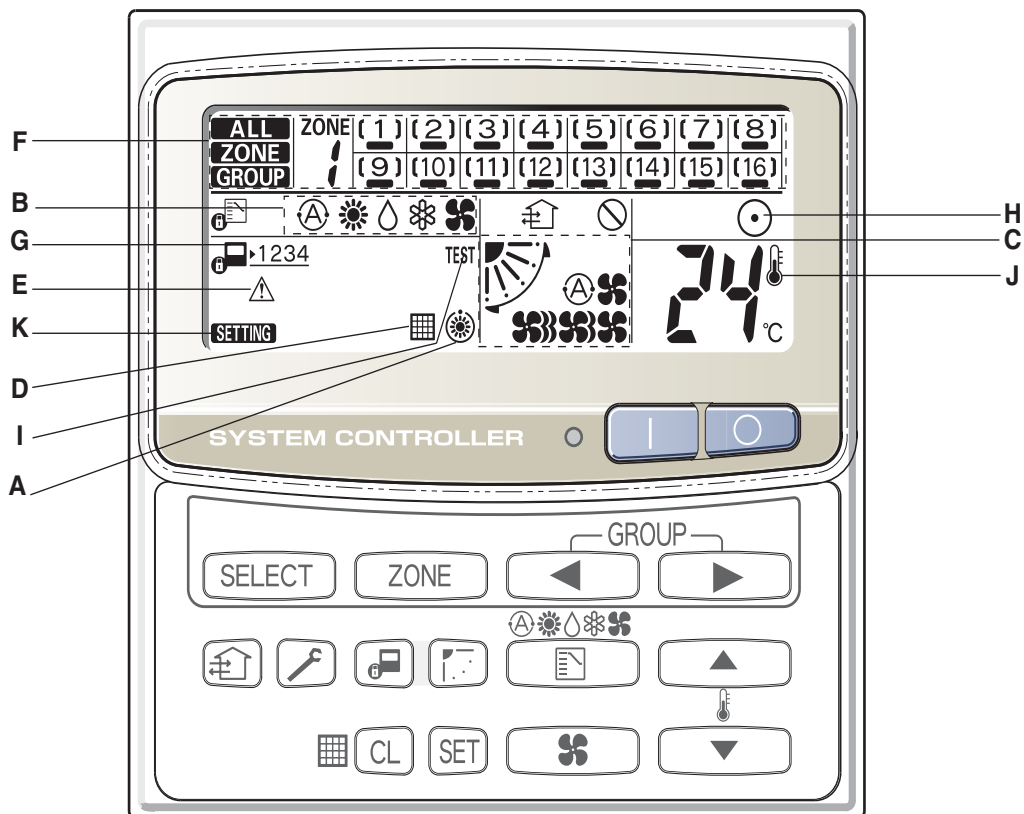
Description

A: When the unit is in the heating standby mode, the ❄ indicator appears.

B: The currently selected operation mode is displayed.

C: The currently selected FAN SPEED, Airflow Direction and SWEEP settings are displayed.

D: This indication appears when the filter needs cleaning.

E: This indication appears only when an abnormality occurs within a unit.

F: The currently selected mode (ALL, ZONE or GROUP), ZONE number and GROUP number are displayed.

GROUP number display (no figure: no number registered)

GROUP state display ([ ] : registered group, ☼ : currently selected group)

Operation state display (— : on, no sign: off, ☼ : alarm)
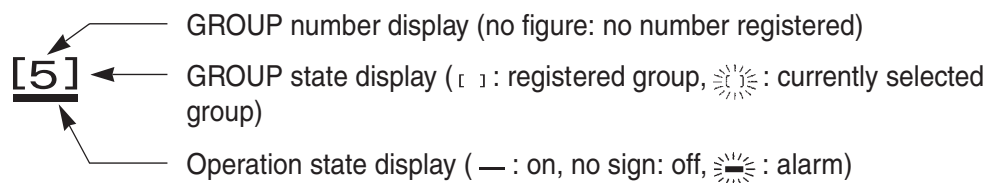
G: The currently selected central control mode (1, 2, 3 or 4) is displayed.

H: Lights when any of the air conditioners under the central control is operating; turns off when none of the air conditioners under the central control are operating. Blinks when any conditioner is operating under abnormal conditions and its protection functionality is working.

I: This indication appears while a test run is underway.

J: This indication appears when the temperature is set.

K: When turning on the power switch of the central controller, SETTING sign blinks for a few minutes. While blinking, any controls using the central controller are stopped. This is because the central controller is verifying the connected groups.

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■ How to start group operation

To start group operation

Power		Turn the power supply switch on more than 12 hours before starting operation.
1	SELECT	Press the SELECT button and select GROUP.
2	ZONE	Select the ZONE No. including the group to be operated by pressing ZONE button.
3	◄ ►	Select the GROUP No. to be operated by pressing GROUP select buttons ◄ ►.
4	🖹	Set the operation mode by pressing the MODE button.
5	⌷	Press the ON button.
6	▲ ▼	Set the desired temperature by pressing one of the temperature setting buttons ▲ ▼.
7	✖	Set the desired fan speed by pressing the FAN SPEED button.
8	⌑	Set the airflow direction to a specific angle or sweep mode.
9	⊞	By pressing ⊞, select your desired setting. Individual: Controls with the remote controller are possible. Central 1: Individual ON/OFF operation with the remote controller is inhibited. Central 2: Individual ON/OFF, MODE, and Temp. setting operations with the remote controller are inhibited. Central 3: Individual MODE and Temp. setting operations with the remote controller are inhibited. Central 4: Individual MODE operation with the remote controller is inhibited. Under Central/Individual settings other than listed above, "CENTRAL" is displayed.
AUTO Operation		Depending on the difference between the temperature setting and the room temperature, heating and cooling alternate automatically so that a uniform room temperature is maintained. Some models are not provided with a mode for automatically setting the cooling or heating operation.
Stop	⦶	Confirming the GROUP No. to be selected, press the OFF button.

NOTE	The flap setting can be performed only for units that have no remote controllers.

■ How to start collective operation

To start collective operation (ALL or ZONE)
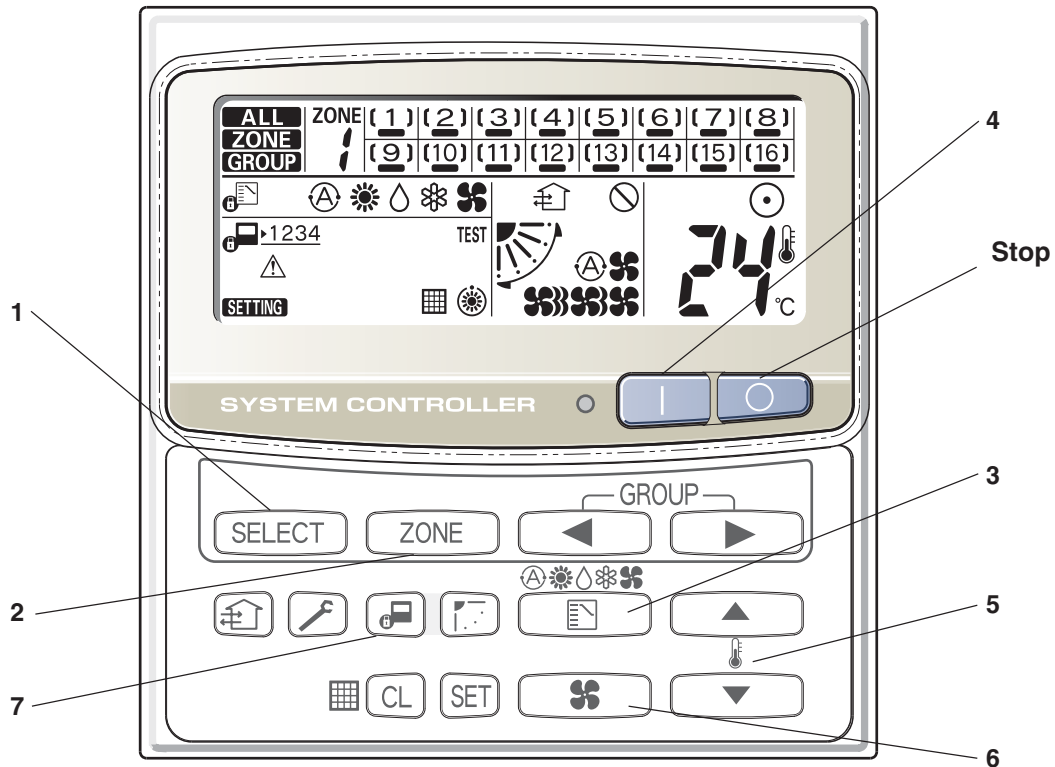
Power		Turn the power supply switch on 12 hours or more before starting operation.
1	SELECT	Press the SELECT button and select ALL or ZONE. In case of ZONE collective operation.
2	ZONE	Select the ZONE No. to be operated by pressing ZONE button.
3		Set the operation mode by pressing the MODE button.
4		Press the ON button.
5	▲ ▼	Set the desired temperature by pressing one of the temperature setting buttons ▲ ▼.
6		Set the desired fan speed by pressing the FAN SPEED button.
7		Select the control mode.
Stop		Confirming the ZONE No. to be selected or ALL indication, press the OFF button.

NOTE In the ALL or ZONE mode, no flap settings can be performed. If necessary, you should select the GR mode and use the FLAP button.

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7. ON-OFF Controller
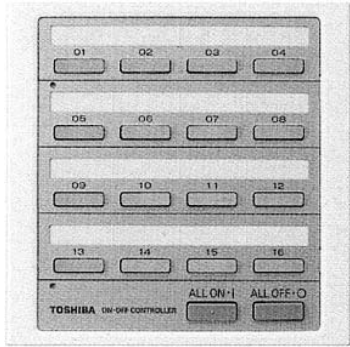
Type Name	: TCB-CC163TLE / TCB-CC163TLE2
Part No.	: Not assigned
Substitution	: TCB-CC163TLE2
Type of Remote	: ON-OFF controller
Reference	: NO
Product used	: VRF
Note	:

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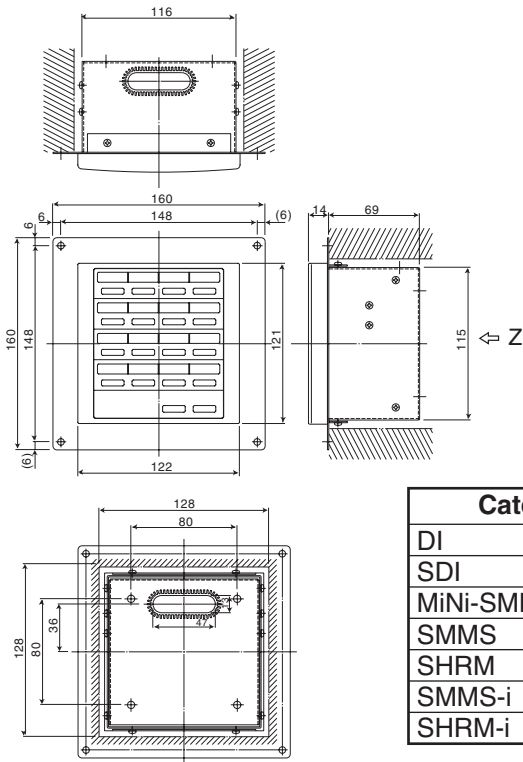
Category	
DI	OK
SDI	OK
MiNi-SMMS	OK
SMMS	OK
SHRM	OK
SMMS-i	OK
SHRM-i	OK

Basic wiring

Clamp for electrical wiring

Connector (CN02) for weekly timer (optional)

Earth for power wiring

CN02

PCB

U1/U3
U2/U4
C3
C4

N
L

B3 B2 B1 A3 A2 A1

N:	Power supply ($\sim$ 50 Hz/60 Hz, 220 . 240 V)
L:	• Power supply wire specification: Cable 3-core, in conformance with Design 60245 IEC 57. • Fix the wires with cord clamp.
U1/U3: U2U4:	Central control wiring. (Low voltage)
C3:	Auxiliary
C4:	Ground for Central control wiring

Terminal for remote monitoring

A1:	Input for turning on air conditioners concurrently.
A2:	Input for turning off air conditioners concurrently.
A3:	Common input for turning air conditioners on or off.
B1:	On operation state indicator output.
B2:	Alarm indicator output.
B3:	Common indicator output.

Wiring Diagram

Refrigerant system 1 (VRF) Central control wiring

Refrigerant system 2 (VRF)

Refrigerant system 3 (RAV)

ON-OFF controller

When connecting to VRF outdoor units

Indoor/outdoor unit connecting wire

"1:1 Model" connection interface

1-1 1-2 1-3   2-1 2-2 2-3   3-1

When connecting to MMO indoor units

ON-OFF controller

When connecting a ON-OFF controller for RAV series indoor unit (except KRT), add the "1:1 Model" connection interface to indoor unit.

Part Name

A：ON/OFF button

C：ALL OFF button

B：ALL ON button

A:	**ON/OFF button**		Press this to start up or stop an individual air conditioner.
	01 ~ 16		
B:	**All ON button**	ALL ON・I	Press this to start up all the air conditioners at the same time.
		NOTE	**The indoor units which can be operated by the ON-OFF controller now start operating in sequence at intervals of 1 to 2 seconds.**
C:	**All OFF button**	ALL OFF・O	Press this to stop all the air conditioners at the same time.

8. Function Selecting Item (DN)

Table 1. Setting data (CODE No. table (example))

DN	Item	Setting data	Factory-set value	4-way	2-way	1-way	Concealed duct standard	Concealed duct high standard	Under ceiling	High wall	High static duct	Medium static duct	Slim duct
01	Filter sign lighting time		Depending on Type	○	○	○	○	○	○	○	○	○	○
02	Filter pollution level		0000: standard	○	○	○	○	○	○	○	○	○	○
03	Central control address		0099: Not determined	○	○	○	○	○	○	○	○	○	○
04	Specific indooor unit priority		0000: No priority	○	○	○	○	○	○	○	○	○	○
06	Heating suction temperature shift		0002: +2˚C (flooring installation type: 0)	○	○	○	○	○	○	○	○	○	○
0C	PREPARING indication selection		0000: Normal								○		
0d	Existence of [AUTO] mode		0000: Not provided	○							○		
0E	Follows operation mode of header		0000: Not provided		○	○					○		○
0F	Cooling only		0000: Heat pump	○	○	○	○	○	○	○		○	○
10	Type		Depending on model type	○	○	○	○	○	○	○	○	○	○
11	Indoor unit capacity		Depending on capacity type	○	○	○	○	○	○	○	○	○	○
12	System address		0099: Not determined	○	○	○	○	○	○	○	○	○	○
13	Indoor unit address		0099: Not determined	○	○	○	○	○	○	○	○	○	○
14	Group address		0099: Not determined	○	○	○	○	○	○	○	○	○	○
19	Louver type (wind direction adjustment)		Depending on Type.	○	○	○	○	○	○				○
1E	Temperature range of cooling/heating automatic SW control point		0003: 3 deg (Ts ± 1.5)	○	○	○	○	○	○	○	○		○
28	Power failure automatic recovery		0000: None	○	○	○	○	○	○	○	○	○	○
29	Operation condition of humidifier		0000: Usual				○		○				
2A	Option/Abnormal input (CN70) SW		0002: Humidifier	○	○	○	○	○	○	○	○	○	
2b	Thermo output SW (T10)		0000: Thermo ON	○		○	○	○		○	○		
2E	HA terminal (T10-1) selection		0000: Operation input	○	○	○	○		○	○		○	
30	Automatic elevating grille		0000: Unavailable				○	○					
31	Ventilation fan (standalone)		0000: Not available		○	○	○	○	○	○	○	○	
32	Sensor SW (Selection of static pressure)		0000: Body sensor	○	○	○	○	○	○	○	○	○	○
33	Temperature unit select		0000: ˚C		○	○	○		○			○	
40	Humidifier control (+ drain pump control)		0003: Humidifier ON + Pump OFF				○	○	○		○		
5d	High ceiling SW		0000: Standard	○		○	○	○					○
60	Timer setting (wired remote controller)		0000: Available	○		○		○	○	○	○		○
62	Anti-ceiling smudging control		4- way Air discharge cassette type only				○						
69	Louver setting for cooling		0000: Normal							○			
8b	Correction of feeling of strong heating		0000: Not provided										
C2	Demand setting (outdoor unit current demand)		0075: 75 %									○	
d0	Remote controller operation save function		0001: Enable									○	
d1	Frost protection function		0000: None										
d3	Rotation number of the self-clean operation		0001: 210ypm(at self-clean operation)										
F0	Swing mode		0001: Standard										
F1	Louver fixing position (Flap No. 1)		0000: Not fixed										
F2	Louver fixing position (Flap No. 2)		0000: Not fixed										
F3	Louver fixing position (Flap No. 3)		0000: Not fixed										
F4	Louver fixing position (Flap No. 4)		0000: Not fixed										

SDI (4Series example)

Function selection item No. (DN) list

DN	Item	Contents	At shipment from factory
01	Filter sign lighting time	0000: None 0001: 150H 0002: 2500H 0003: 5000H 0004: 10000H 0005: Clogging sensor used	According to type
02	Filter stain level	0000: Standard 0001: Heavy stain (Half of standard time)	0000: Standard
03	Central control address	0001: No.1 unit to 0064: No.64 unit 0099: Undecided	0099: Undecided
06	Heating suction temp. shift	0000: No shift 0001: +1˚C 0002: +2˚C to 0010: +10˚C (Up to +6 is recommended.)	0002: +2˚C (Floor type 0000: 0˚C)
0F	Cooling-only	0000: Heat pump 0001: Cooling only (No display for [AUTO] [HEAT])	0000: Heat pump
10	Type	0000: (1-way air discharge cassette) 0001: (4-way air discharge cassette) to 0037	According to model type
11	Indoor unit capacity	0000: Undecided 0001 to 0034	According to capacity type
12	Line address	0001: No.1 unit to 0030: No.30 unit	0099: Undecided
13	Indoor unit address	0001: No.1 unit to 0064: No.64 unit	0099: Undecided
14	Group address	0000: Individual 0001: Master unit in group 0002: Follower unit in group	0099: Undecided
1E	In automatic cooling/heating, temp. width of cool → heat, heat → cool mode selection control point	0000: 0 deg to 0010: 10 deg (Cool/heat are reversed with ± (Data value) / 2 against the set temperature)	0003: 3 deg (Ts ±1.5)
28	Automatic reset of power failure	0000: None 0001: Provided	0000: None
2A	Selection of option / error input (CN70)	0000: Filter input 0001: Alarm input (Air cleaner, etc.) 0002: Humidifier input	0002: Humidifier
2b	Selection of thermostat output (T10 ③)	0000: Indoor thermostat ON 0001: ON receiving output of outdoor compressor	0000: Thermostat ON
2E	Selection of HA (T10) terminal	0000: Normal (JEMA) 0001: Card input (Forgotten to be off) 0002: Fire alarm input	0000: Normal (HA terminal)
31	Fan (Single operation)	0000: Impossible 0001: Possible	0000: Impossible
32	Sensor selection	0000: Body TA sensor 0001: Remote controller sensor	0000: Body sensor
40	Humidifier control (+Drain pump control) (This function is not provided.)	0000: No control 0001: Humidifier + Vaporizing type (Pump ON) 0002: Humidifier + Supersonic type (Pump ON when specified time elapsed) 0003: Humidifier + Natural drain type (Pump OFF)	0003: Humidifier ON Pump OFF
5d	External static pressure	0000: Standard (At shipment) (10 Pa) 0001: High static pressure 1 (20 Pa) 0003: High static pressure 2 (35 Pa) 0006: High static pressure 3 (50 Pa)	0000: Standard
60	Timer setting (Wired remote controller)	0000: Operable 0001: Operation prohibited	0000: Operable
C2	Current demand X% to outdoor unit	0050: 50% to 0100: 100%	0075: 75%
D0	Existence of remote controller save function	0000: Invalid (Impossible) 0001: Valid (Possible)	0001: Valid (Possible)
D1	Existence of 8˚C heating operation function	0000: Invalid (Impossible) 0001: Valid (Possible)	0001: Invalid (Impossible)

MiNi-SMMS

DN	Item	Description		At shipment
01	Filter display delay timer	0000: None 0002: 2500H 0004: 10000H	0001: 150H 0003: 5000H	According to type
02	Dirty state of filter	0000: Standard 0001: High degree of dirt (Half of standard time)		0000: Standard
03	Central control address	0001: No.1 unit to 0064: No.64 unit 0099: Unfixed		0099: Unfixed
04	Specific indoor unit priority	0000: No priority	0001: Priority	0000: No priority
06	Heating temp shift	0000: No shift 0002: +2 ˚C to	0001: +1 ˚C 0010: +10 ˚C (Up to +6 recommended)	0002: +2 ˚C (Floor type 0000: 0 ˚C)
0d	Existence of [AUTO] mode	0000: Provided 0001: Not provided (Automatic selection from connected outdoor unit)		0001: Not provided
0F	Cooling only	0000: Heat pump 0001: Cooling only (No display of [AUTO] [HEAT])		0000: Heat pump
10	Type	0001: 4-way Air Cassette		Depending on model type
11	Indoor unit capacity	0000: Unfixed 0001 to 0034		According to capacity type
12	Line address	0001: No.1 unit to 0030: No.30 unit		0099: Unfixed
13	Indoor unit address	0001: No.1 unit to 0064: No.64 unit		0099: Unfixed
14	Group address	0000: Individual 0002: Follower unit of group	0001: Outdoor unit of group	0099: Unfixed
19	Louver type (Air direction adjustment)	0000: No louver 0002: (1-way Air Cassette type, Ceiling type) 0003: (2-way Air Cassette type) 0004: (4-way Air Cassette type)	0001: Swing only	According to type
1E	Temp difference of [AUTO] mode selection COOL → HEAT, HEAT → COOL	0000: 0 deg to 0010: 10 deg (For setup temperature, reversal of COOL / HEAT by ± (Data value) / 2)		0003: 3 deg (Ts±1.5)
28	Automatic restart of power failure	0000: None	0001: Restart	0000: None
2A	Selection of option / error input (CN70)	0000: Filter input 0002: None	0001: Alarm input (Air washer, etc.)	0002: None
31	Ventilating fan control	0000: Unavailable	0001: Available	0000: Unavailable
32	TA sensor selection	0000: Body TA sensor	0001: Remote controller sensor	0000: Body TA sensor
33	Temperature unit select	0000: ˚C (factory default)	0001: ˚F	0000: ˚C
F0	Swing mode	0001: Standard 0003: Cycle swing	0002: Dual swing	0001: Standard
F1	Louver fixed position (Louver No.1)	0000: Release 0005: Downward discharge position	0001: Horizontal discharge position	0000: Not fixed
F2	Louver fixed position (Louver No.2)	0000: Release 0005: Downward discharge position	0001: Horizontal discharge position	0000: Not fixed
F3	Louver fixed position (Louver No.3)	0000: Release 0005: Downward discharge position	0001: Horizontal discharge position	0000: Not fixed
F4	Louver fixed position (Louver No.4)	0000: Release 0005: Downward discharge position	0001: Horizontal discharge position	0000: Not fixed

DN	Item	Description		At shipment
5d	High-ceiling adjustment (Air flow selection)	**1-way air cassette (SH)**		0000: Standard

1-way air cassette (SH)

Value	Type	AP015, AP018	AP024
0000	Standard (factory default)	3.5 m or less	3.8 m or less
0001	High-ceiling (1)	4.0 m or less	4.0 m or less
0003	High-ceiling (3)	4.2 m or less	4.2 m or less

2-way air cassette

Value	Type	AP007~AP030	AP036~AP056
0000	Standard (factory default)	2.7 m or less	2.7 m or less
0001	High-ceiling (1)	3.2 m or less (*)	3.0 m or less
0003	High-ceiling (3)	3.8 m or less (*)	3.5 m or less

* The high-ceiling installation of model AP007 to AP012 can only be undertaken when the combined capacity of the indoor units connected is 100 % or less than the capacity of the outdoor unit.
Do not proceed with high-ceiling installation if this limit is exceeded.

4-way air cassette

Value	Type	AP009~AP012			AP015~AP018		
	Air flow at outlet	4 directions	3 directions	2 directions	4 directions	3 directions	2 directions
0000	Standard (factory default)	2.7 m	2.8 m	3.0 m	2.8 m	3.2 m	3.5 m
0001	High-ceiling (1)	—	—	—	3.2 m	3.5 m	3.8 m
0003	High-ceiling (3)	—	—	—	3.5 m	3.8 m	—

Value	Type	AP024~AP030			AP036~AP056		
	Air flow at outlet	4 directions	3 directions	2 directions	4 directions	3 directions	2 directions
0000	Standard (factory default)	3.0 m	3.3 m	3.6 m	3.0 m	3.3 m	3.6 m
0001	High-ceiling (1)	3.3 m	3.5 m	3.8 m	3.3 m	3.5 m	3.8 m
0003	High-ceiling (3)	3.6 m	3.8 m	—	3.6 m	3.8 m	—

Ceiling

Value	Type	AP015~AP056
0000	Standard (factory default)	3.5 m or less
0001	High-ceiling (1)	4.0 m or less

DN	Item	Description		At shipment
	Built-in filter	2-way air cassette 0000: Standard filter (factory default) 0001: Super long-life filter 4-way air cassette 0000: Standard filter (factory default) Ceiling 0000: Standard filter (factory default) Concealed duct standard 0000: Standard filter (factory default) 0001: High-efficiency filter (65 %, 90 %)		
	Static pressure selection	Concealed duct standard 0000: Standard (factory default) 0001: High static pressure 1 0003: High static pressure 2 0006: Low static pressure	Slim Duct 0000: Standard (factory default) 0001: High static pressure 1 0003: High static pressure 2 0006: High static pressure 3	
60	Timer setting (wired remote controller)	0000: Available (can be performed)	0001: Unavailable (cannot be performed)	0000: Available
92	External interlock release condition	0000: Operation stopped	0001: Release signal received	0000: Operation stopped
D0	Whether the power saving mode can be set by the remote controller	0000: Invalid	0001: Valid	0000: Valid

SMMS

DN	Item	Description		At shipment
01	Filter sign lighting time	0000 : None 0002 : 2500H 0004 : 10000H	0001 : 150H 0003 : 5000H	According to type
02	Dirty state of filter	0000 : Standard	0001 : High degree of dirt (Half of standard time)	0000 : Standard
03	Central control address	0001 : No.1 unit to 0099 : Unfixed	0064 : No.64 unit	0099 : Unfixed
04	Specific indoor unit priority	0000 : No priority	0001 : Priority	0000 : No priority
06	Heating temp shift	0000 : No shift 0002 : +2˚C to	0001 : +1˚C 0010 : +10˚C (Up to +6 recommended)	0002 : +2˚C (Floor type 0000 : 0˚C)
0d	Existence of automatic cool/heat mode	0000 : Provided	0001 : Not provided (Automatic selection from connected outdoor unit)	0001 : Not provided
0F	Cooling only	0000 : Heat pump	0001 : Cooling only (No display of [AUTO] [HEAT])	0000 : Heat pump
12	Line address	0001 : No.1 unit to	0030 : No.30 unit	0099 : Unfixed
13	Indoor unit address	0001 : No.1 unit to	0064 : No.64 unit	0099 : Unfixed
14	Group address	0000 : Individual 0002 : Follower unit of group	0001 : Header unit of group	0099 : Unfixed
19	Flap type (Adjustment of air direction)	0000 : Not provided 0001 : Swing only 0004 : [4-way Air Discharge Cassette type] and [Under Ceiling type]		According to type
1E	Temp difference of automatic cooling/ heating mode selection COOL → HEAT, HEAT → COOL	0000 : 0 deg to 0010 : 10 deg (For setup temperature, reversal of COOL/HEAT by ± (Data value)/2)		0003 : 3 deg (Ts±1.5)
28	Automatic restart of power failure	0000 : None	0001 : estart	0000 : None
2A	Selection of option/ error input (CN70)	0000 : Filter input 0002 : Humidifier input	0001 : Alarm input (Air washer, etc.)	0002 : Humidifier
2E	HA terminal (CN61) select	0000 : Usual	0001 : Leaving-ON prevention control	0000 : Usual (HA terminal)
30	Automatic elevating grille	0000 : Unavailable (Standard, Oil guard panel)	0001 : Available (Auto grille, Oil guard, Auto grille panel)	0000 : Unavailable
31	Ventilating fan control	0000 : Unavailable	0001 : Available	0000 : Unavailable
32	TA sensor selection	0000 : Body TA sensor	0001 : Remote controller sensor	0000 : Body TA sensor
33	Temperature unit select	0000 : ˚C (at factory shipment)	0001 : ˚F	0000 : ˚C
40	Control for humidifier (+ drain pump control)	0000 : None 0002 : Humidifier + Ultrasonic system (Pump ON after specified time passed) (Unused) 0003 : Humidifier + Natural drain system (Pump OFF)	0001 : Humidifier + Vaporizing system (Pump ON)	0003 : Humidifier ON, Pump OFF
5d	High ceiling selection (Air volume selection)	[4-way Air Discharge Cassette type] and [Under Ceiling type] 0000 : Standard filter 0001 : Super-long life [Concealed Duct Standard type] 0000 : Standard static pressure 0001 : High static pressure 1 (40Pa) (70Pa) 0003 : High static pressure 2 0005 : Correspond to quiet sound (100Pa) 0006 : Low static pressure (20Pa)		0000 : Standard
60	Timer set (Wired remote controller)	0000 : Available (Operable)	0001 : Unavailable (Operation prohibited)	0000 : Available
62	Smudging-proof control clear	0000 : Clear		4-way Air Discharge Cassette type only
92	Outside interlock release condition	0000 : Operation stop	0001 : Release communication signal receive	0000 : Operation stop

SMMS-i

DN	Item	Description		At shipment
01	Filter display delay timer	0000: None 0002: 2500H 0004: 10000H	0001: 150H 0003: 5000H	According to type
02	Dirty state of filter	0000: Standard 0001: High degree of dirt (Half of standard time)		0000: Standard
03	Central control address	0001: No.1 unit to 0099: Unfixed	0064: No.64 unit	0099: Unfixed
04	Specific indoor unit priority	0000: No priority	0001: Priority	0000: No priority
06	Heating temp shift	0000: No shift 0002: +2˚C to	0001: +1˚C 0010: +10˚C (Up to +6 recommended)	0002: +2˚C (Floor type 0000: 0˚C)
0d	Existence of [AUTO] mode	0000: Provided 0001: Not provided (Automatic selection from connected outdoor unit)		0001: Not provided
0F	Cooling only	0000: Heat pump 0001: Cooling only (No display of [AUTO] [HEAT])		0000: Heat pump
10	Type	0001: 4-way Air Discharge Cassette		Depending on model type
11	Indoor unit capacity	0000: Unfixed	0001 to 0034	According to capacity type
12	Line address	0001: No.1 unit to	0030: No.30 unit	0099: Unfixed
13	Indoor unit address	0001: No.1 unit to	0064: No.64 unit	0099: Unfixed
14	Group address	0000: Individual 0002: Follower unit of group	0001: Header unit of group	0099: Unfixed
19	Louver type (Air direction adjustment)	0000: No louver 0002: (1-way Air Discharge Cassette type, Under Ceiling type) 0003: (2-way Air Discharge Cassette type) 0004: (4-way Air Discharge Cassette type)	0001: Swing only	According to type
1E	Temp difference of [AUTO] mode selection COOL → HEAT, HEAT → COOL	0000: 0 deg to (For setup temperature, reversal of COOL/HEAT by ± (Data value)/2)	0010: 10 deg	0003: 3 deg (Ts±1.5)
28	Automatic restart of power failure	0000: None	0001: Restart	0000: None
2A	Selection of option/error input (CN70)	0000: Filter input 0002: None	0001: Alarm input (Air washer, etc.)	0002: None
31	Ventilating fan control	0000: Unavailable	0001: Available	0000: Unavailable
32	TA sensor selection	0000: Body TA sensor	0001: Remote controller sensor	0000: Body TA sensor
33	Temperature unit select	0000: ˚C (at factory shipment)	0001: ˚F	0000: ˚C
F0	Swing mode	0001: Standard 0003: Cycle swing	0002: Dual swing	0001: Standard
F1	Louver fixed position (Louver No.1)	0000: Release 0005: Downward discharge position	0001: Horizontal discharge position	0000: Not fixed
F2	Louver fixed position (Louver No.2)	0000: Release 0005: Downward discharge position	0001: Horizontal discharge position	0000: Not fixed
F3	Louver fixed position (Louver No.3)	0000: Release 0005: Downward discharge position	0001: Horizontal discharge position	0000: Not fixed
F4	Louver fixed position (Louver No.4)	0000: Release 0005: Downward discharge position	0001: Horizontal discharge position	0000: Not fixed

SHRM

DN	Item	Description		At shipment
01	Filter sign lighting time	0000 : None 0002 : 2500H 0004 : 10000H	0001 : 150H 0003 : 5000H	According to type
02	Dirty state of filter	0000 : Standard	0001 : High degree of dirt (Half of standard time)	0000 : Standard
03	Central control address	0001 : No.1 unit to 0099 : Unfixed	0064 : No.64 unit	0099 : Unfixed
04	Specific indoor unit priority	0000 : No priority	0001 : Priority	0000 : No priority
06	Heating temp shift	0000 : No shift 0002 : +2˚C to	0001 : +1˚C 0010 : +10˚C (Up to +6 recommended)	0002 : +2˚C (Floor type 0000: 0˚C)
0d	Existence of automatic cool/heat mode	0000 : Provided	0001 : Not provided (Automatic selection from connected outdoor unit)	0001 : Not provided
0F	Cooling only	0000 : Heat pump	0001 : Cooling only (No display of [AUTO] [HEAT])	0000 : Heat pump
10	Type	0000 : (1-way air discharge cassette) 0001 : (4-way air discharge cassette) to 0037		According to model type
11	Indoor unit capacity	0000 : Unfixed	0001 to 0034	According to capacity type
12	Line address	0001 : No.1 unit to	0030 : No.30 unit	0099 : Unfixed
13	Indoor unit address	0001 : No.1 unit to	0064 : No.64 unit	0099 : Unfixed
14	Group address	0000 : Individual 0002 : Follower unit of group	0001 : Header unit of group	0099 : Unfixed
19	Flap type (Adjustment of air direction)	0000 : Not provided 0001 : Swing only 0004 : [4-way Air Discharge Cassette type] and [Under Ceiling type]		According to type
1E	Temp difference of automatic cooling/ heating mode selection COOL → HEAT, HEAT →COOL	0000 : 0 deg to 0010 : 10 deg (For setup temperature, reversal of COOL/HEAT by ± (Data value)/2)		0003 : 3 deg (Ts±1.5)
28	Automatic restart of power failure	0000 : None	0001 : Reset	0000 : None
29	Operation condition of humidifier	0000 : Usual 0001 : Condition ignored (Detection control for heat exchanger temperature)		0000 : Usual
2A	Selection of option/ error input (CN70)	0000 : Filter input 0001 : Alarm input (Air washer, etc.) 0002 : Humidifier input		0002 : Humidifier
2E	HA terminal (CN61) select	0000 : Usual	0001 : Leaving-ON prevention control	0000 : Usual (HA terminal)
30	Automatic elevating grille	0000 : Unavailable (Standard, Oil guard panel)	0001 : Available (Auto grille, Oil guard, Auto grille panel)	0000 : Unavailable
31	Ventilating fan control	0000 : Unavailable	0001 : Available	0000 : Unavailable
32	TA sensor selection	0000 : Body TA sensor	0001 : Remote controller sensor	0000 : Body TA sensor
33	Temperature unit select	0000 : ˚C (at factory shipment)	0001 : ˚F	0000 : ˚C
40	Control for humidifier (+ drain pump control)	0000 : None 0002 : Humidifier + Ultrasonic system (Pump ON after specified time passed) (Unused) 0003 : Humidifier + Natural drain system (Pump OFF)	0001 : Humidifier + Vaporizing system (Pump ON)	0003 : Humidifier ON, Pump OFF
5d	High ceiling selection (Air volume selection)	[4-way Air Discharge Cassette type] and [Under Ceiling type] 0000 : Standard filter 0001 : Super-long life [Concealed Duct Standard type] 0000 : Standard static pressure 0001 : High static pressure 1 (40Pa) (70Pa) 0003 : High static pressure 2 0005 : Correspond to quiet sound (100Pa) 0006 : Low static pressure (20Pa)		0000 : Standard
60	Timer set (Wired remote controller)	0000 : Available (Operable)	0001 : Unavailable (Operation prohibited)	0000 : Available
62	Smudging-proof control clear	0000 : Clear		4- way Air Discharge Cassette type only
92	Outside interlock release condition	0000 : Operation stop	0001 : Release communication signal receive	0000 : Operation stop

SHRM-i

DN	Item	Description		At shipment
01	Filter display delay timer	0000: None 0002: 2500H 0004: 10000H	0001: 150H 0003: 5000H	According to type
02	Dirty state of filter	0000: Standard 0001: High degree of dirt (Half of standard time)		0000: Standard
03	Central control address	0001: No.1 unit　　　　　to 0099: Unfixed	0064: No.64 unit	0099: Unfixed
04	Specific indoor unit priority	0000: No priority	0001: Priority	0000: No priority
06	Heating temp shift	0000: No shift 0002: +2 C　　　　　to	0001: +1 C 0010: +10 C (Up to +6 recommended)	0002: +2 C (Floor type 0000: 0 C)
0d	Existence of [AUTO] mode	0000: Provided 0001: Not provided (Automatic selection from connected outdoor unit)		0001: Not provided
0E	FS unit Connection set of multiple indoor units	0000: Standard (1 FS unit : 1 indoor unit) 0001: Multiple units connected ((1 FS unit : Multiple indoor units)		0000:Standard
0F	Cooling only	0000: Heat pump 0001: Cooling only (No display of [AUTO] [HEAT])		0000: Heat pump
10	Type	0001: 4-way Cassette		Depending on model type
11	Indoor unit capacity	0000: Unfixed	0001 to 0050	According to capacity type
12	Line address	0001: No.1 unit　　　　　to	0030: No.30 unit	0099: Unfixed
13	Indoor unit address	0001: No.1 unit　　　　　to	0048: No.48 unit	0099: Unfixed
14	Group address	0000: Individual 0002: Follower unit of group	0001: Header unit of group	0099: Unfixed
19	Group address	0000: No louver 0002: (1-way Cassette type, Ceiling type) 0003: (2-way Cassette type) 0004: (4-way Cassette type)	0001: Swing only	According to type
1E	Temp difference of [AUTO] mode selection COOL → HEAT, HEAT → COOL	0000: 0 deg　　　　　to (For setup temperature, reversal of COOL/HEAT by } (Data value)/2)	0010: 10 deg	0003: 3 deg (Ts ±1.5)
28	Automatic restart of power failure	0000: None	0001: Restart	0000: None
2A	Selection of option/error input (CN70)	0000: Filter input 0002: None	0001: Alarm input (Air washer, etc.)	0002: None
2E	HA terminal (CN61) select	0000: Usual 0002: Fire alarm input	0001: Leaving-ON prevention control	0000: Usual (HA terminal)
31	Ventilating fan control	0000: Unavailable	0001: Available	0000: Unavailable
32	TA sensor selection	0000: Body TA sensor	0001: Remote controller sensor	0000: Body TA sensor
33	Temperature unit select	0000: C (at factory shipment)	0001: F	0000: C
F0	Swing mode	0001: Standard 0003: Cycle swing	0002: Dual swing	0001: Standard
F1	Louver fixed position (Louver No.1)	0000: Release 0005: Downward discharge position	0001: Horizontal discharge position	0000: Not fixed
F2	Louver fixed position (Louver No.2)	0000: Release 0005: Downward discharge position	0001: Horizontal discharge position	0000: Not fixed
F3	Louver fixed position (Louver No.3)	0000: Release 0005: Downward discharge position	0001: Horizontal discharge position	0000: Not fixed
F4	Louver fixed position (Louver No.4)	0000: Release 0005: Downward discharge position	0001: Horizontal discharge position	0000: Not fixed

DN	Item	Description								At shipment

DN	Item	Description	At shipment
5d	High-ceiling adjustment (Air flow selection)	**1-way cassette (SH)**	0000: Standard

1-way cassette (SH)

Value	Type	AP015, AP018	AP024
0000	Standard (factory default)	3.5 m or less	3.8 m or less
0001	High-ceiling (1)	4.0 m or less	4.0 m or less
0003	High-ceiling (3)	4.2 m or less	4.2 m or less

2-way cassette

Value	Type	AP007~AP030	AP036~AP056
0000	Standard (factory default)	2.7 m or less	2.7 m or less
0001	High-ceiling (1)	3.2 m or less (*)	3.0 m or less
0003	High-ceiling (3)	3.8 m or less (*)	3.5 m or less

* The high-ceiling installation of model AP007 to AP012 can only be undertaken when the combined capacity of the indoor units connected is 100% or less than the capacity of the outdoor unit.
Do not proceed with high-ceiling installation if this limit is exceeded.

4-way cassette

Value	Type	AP009~AP012			AP015~AP018		
	Air flow at outlet	4 directions	3 directions	2 directions	4 directions	3 directions	2 directions
0000	Standard (factory default)	2.7 m	2.8 m	3.0 m	2.8 m	3.2 m	3.5 m
0001	High-ceiling (1)	—	—	—	3.2 m	3.5 m	3.8 m
0003	High-ceiling (3)	—	—	—	3.5 m	3.8 m	—

Value	Type	AP024~AP030			AP036~AP056		
	Air flow at outlet	4 directions	3 directions	2 directions	4 directions	3 directions	2 directions
0000	Standard (factory default)	3.0 m	3.3 m	3.6 m	3.0 m	3.3 m	3.6 m
0001	High-ceiling (1)	3.3 m	3.5 m	3.8 m	3.3 m	3.5 m	3.8 m
0003	High-ceiling (3)	3.6 m	3.8 m	—	3.6 m	3.8 m	—

Ceiling

Value	Type	AP015~AP056
0000	Standard (factory default)	3.5 m or less
0001	High-ceiling (1)	4.0 m or less

| DN	Item	Description	At shipment
	Built-in filter	2-way cassette 0000: Standard filter (factory default) 0001: Super long-life filter 4-way cassette 0000: Standard filter (factory default) Ceiling 0000: Standard filter (factory default) Concealed duct standard 0000: Standard filter (factory default) 0001: High-performance filter (65%, 90%)	
	Static pressure selection	Concealed duct standard 0000: Standard (factory default) 0001: High static pressure 1 0003: High static pressure 2 0006: Low static pressure	Slim Duct (AP007~AP018) 0000: Standard (factory default) 0001: High static pressure 1 0003: High static pressure 2 0006: High static pressure 3
60	Timer setting (wired remote controller)	0000: Available (can be performed) 0001: Unavailable (cannot be performed)	0000: Available

Codes (DN codes) for changing settings (Necessary for local advanced control)

DN	Item	Description		At shipment
40	Humidifier type setting	0000: No humidifier	0001: Humidifier	Depends on the type
47	Ventilation fan speed during nighttime heat purge operation	0000: Always LOW	0001: Operate at ventilation fan speed set last time the operation was stopped	0000: Always LOW
48	Unbalanced fan speed ventilation	0000: Invalid 0002: SA < EA	0001: SA > EA	0000: Invalid
4C	Nighttime heat purge setting	0000: Invalid 0001: Start in 1 hour to	0048: Start in 48 hours	0000: Invalid
4E	Linkage with external devices	0000: ON / OFF linked 0002: OFF linked	0001: ON linked	0000: ON / OFF linked
5C	Damper output	0000: Normal	0001: Nighttime heat purge compatible	0000: Normal
60	Timer setting (Wired remote controller)	0000: Possible	0001: Not possible	0000: Possible
BB	Humidity judgment by outdoor temperature	0000: Not judged	0001: Judged	0000: Not judged
BD	Continuous humidifying time	0001: 1 hour to	0020: 20 hours	0006: 6 hours
BE	Delay after drainage	0015: 15 minutes to	0030: 30 minutes	0015: 15 minutes
C9	Air to Air intake temperature correction (Cool)	0000: No shift 0002: –1.0 C to	0001: –0.5 C 0007: –3.5 C	0004: –2.0 C
CA	Air to Air intake temperature correction (Heat)	0000: No shift 0002: 1.0 C to	0001: 0.5 C 0007: 3.5 C	0005: 2.5 C
D0	Power saving mode	0000: Invalid	0001: Valid	0001: Valid
EA	Current ventilation mode	0002: Heat exchange mode	0003: Automatic mode	0002: Heat exchange mode
EB	Current ventilation fan speed	0002: High 0004: Unbalanced	0003: Low	0002: High
ED	Operation output	0000: Normal operation only 0002: Nighttime heat purge only 0004: Exhausting fan linked	0001: Normal + Nighttime heat purge 0003: Supplying fan linked	0000: Normal operation only
EE	Abnormal signal / Bypass mode signal switch	0000: Abnormal signal output	0001: Bypass signal output	0000: Abnormal signal output

9. Montor Function of Remote Controller Switch

<Produre> (RBC-AMT21E)

1 Push 🔲 + ✏️ buttons simultaneously for 4 seconds or more to call up the service monitor mode.

2 Pushing 🔲 button returns the display to the normal display.

< RBC-AMT21E > < RBC-AMT31E > < RBC-AMT32E >
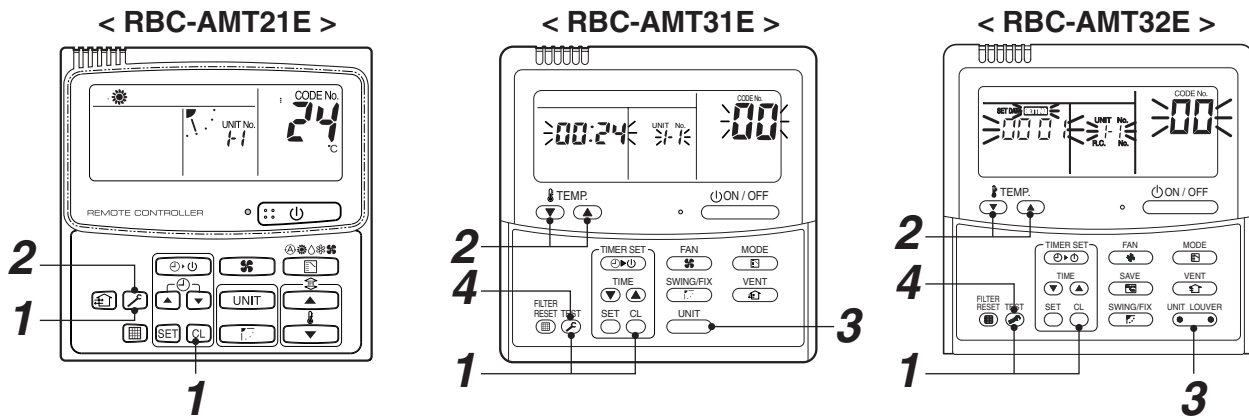
(RBC-AMT31E, RBC-AMT32E)

1 Push 🔘 + 📟 buttons simultaneously for 4 seconds or more to call up the service monitor mode.
The service monitor goes on, and temperature of the item code **00** is firstly displayed.

2 Push the temperature setup ▼ / ▲ buttons to select the CODE NO. (DN code) to be monitored.
For displayed codes, refer to the table below.

3 Push 📟 (📟 RBC-AMT32E) button to change the item to one to be monitored.
Then monitor the indoor unit and sensor temperature or operation status in the corresponding refrigerant line.

4 Pushing 📟 button returns the display to the normal display.

	CODE No.	Data name	Unit	Display form		CODE No.	Data name	Unit	Display form
Indoor unit data	00	Room temp. (Under control) (Note 1)	˚C	× 1	Individual outdoor unit data (Note 3, 4)	10	Compressor 1 discharge temp. (Td1)	˚C	× 1
	01	Room temp. (Remote controller)	˚C	× 1		11	Compressor 2 discharge temp. (Td2)	˚C	× 1
	02	Indoor suction temp. (TA)	˚C	× 1		12	High pressure sensor detection pressure (Pd)	MPa	× 100
	03	Indoor coil temp. (TCJ)	˚C	× 1		13	Low pressure sensor detection pressure (Ps)	MPa	× 100
	04	Indoor coil temp. (TC2)	˚C	× 1		14	Suction temp. (TS)	˚C	× 1
	05	Indoor coil temp. (TC1)	˚C	× 1		15	Outdoor coil temp. (TE)	˚C	× 1
	08	Indoor PMV opening degree	pls	× 1/10		16	Liquid side temp. (TL)	˚C	× 1
	F2	Indoor fan accumulated operation time	h	× 100		17	Outside temp. (TO)	˚C	× 1
	F3	Filter sign time	h	× 1		18	Low pressure saturation temp. (TU)	˚C	× 1
System data	0A	No. of connected indoor units	unit			19	Compressor 1 current (I1)	A	× 10
	0B	Total HP of connected indoor units	HP	× 10		1A	Compressor 2 current (I2)	A	× 10
	0C	No. of connected outdoor units	unit			1B	PMV1 + 2 opening degree	pls	× 1/10
	0D	Total HP of connected outdoor units	HP	× 10		1D	Compressor 1, 2 ON/OFF	—	(Note 2)
						1E	Outdoor fan mode	—	0 to 31
						1F	Outdoor unit HP	HP	× 1

(Note 1) In the group connection, only data of the header indoor unit isdisplayed.

(Note 2) 01: Only compressor 1 is ON.
10: Only compressor 2 is ON.
11: Both compressor 1 and 2 are ON.

(Note 3) For the CODE No., an example of header unit is described.

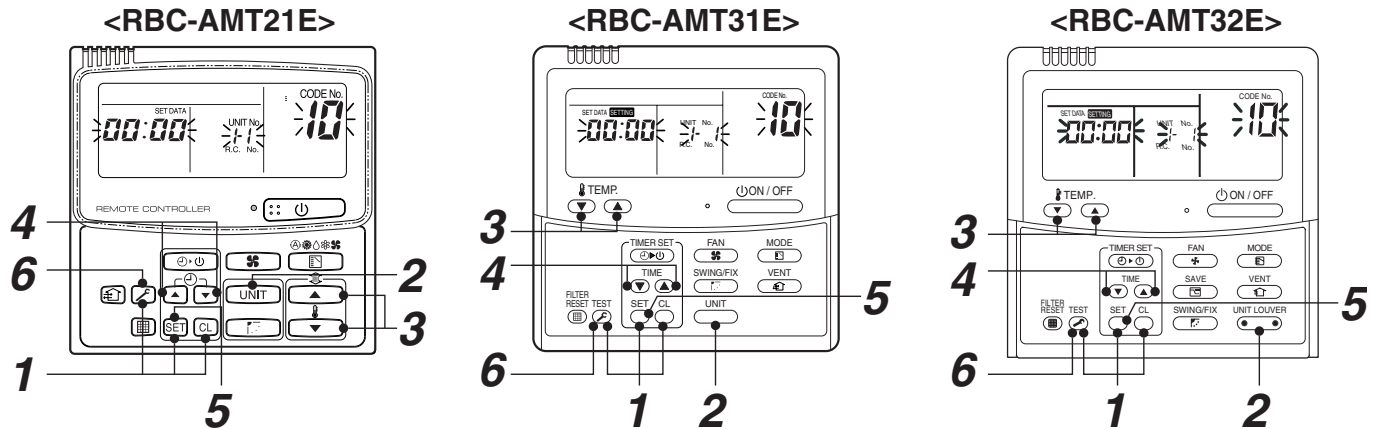**(Note 4)** Upper girder of CODE No. indicates the outdoor unit No.
1: Header unit (A)
2: Followe run it (B)
3: Follower unit (C)
4: Follower unit (D)
(RBC-AMT32E Not used)

10. Indoor Unit Function DN Code

\<RBC-AMT21E\>　　　　\<RBC-AMT31E\>　　　　\<RBC-AMT32E\>

\<Procedure\> To be performed only when system at rest

1 Push the ☍ + ⊙ + ⊙ buttons simultaneously and hold for at least 4 seconds.

The unit No. displayed first is the address of the header indoor unit in group control. Then the fan and louver of the selected indoor unit move.

2 Each time the "Select unit" side of the ⊙ button is pressed, one of the indoor unit Nos. under group control is displayed in turn.
Then the fan and louver of the selected indoor unit move.

3 Use the ⊙ TEMP. ⊙ button to select the CODE No. (DN code) of the desired function.

4 Use the ⊙⊙ button to select the desired SET DATA associated with the selected function.

5 Push the ⊙ button. (The display changes from flashing to steady.)
 • To change the selected indoor unit, go back to step **2**.
 • To change the selected function, go back to step **3**.

6 When the ☍ button is pushed, the system returns to normal off state.

\<RBC-AMT21E button\>

1 ⊡, ⊡ and ⊘

2 UNIT

3 ⊡ and ⊡

4 ⊡ and ⊡

5 ⊡

6 ⊘

\<RBC-AMT31E button\>

2 UNIT
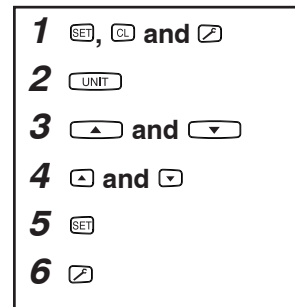
TYPE
DN code [10]

Setup data	Type	Abbreviated Model name
0000	1-way Air Discharge Cassette	MMU-AP✳✳✳SH
0001[*1]	4-way Air Discharge Cassette	MMU-AP✳✳✳H
0002	2-way Air Discharge Cassette	MMU-AP✳✳✳WH
0003	1-way Air Discharge Cassette (Compact type)	MMU-AP✳✳✳YH
0004	Concealed Duct Standard	MMD-AP✳✳✳BH
0005	Slim Duct	MMD-AP✳✳✳SPH, SH
0006	Concealed Duct High Static Pressure	MMD-AP✳✳✳H
0007	Under Ceiling	MMC-AP✳✳✳H
0008	High Wall	MMK-AP✳✳✳H
0010	Floor Standing Cabinet	MML-AP✳✳✳H
0011	Floor Standing Concealed	MML-AP✳✳✳BH
0013	Floor Standing	MMF-AP✳✳✳H
0014	Compact 4-way Air Discharge Cassette	MMU-AP✳✳✳MH
0016	Fresh Air Intake indoor unit (Duct type)	MMD-APHFE
0018	Console	MML-AP✳✳✳NE-H
0050	DX coil	MMD-VNK✳✳✳HEXE

Indoor unit capacity
DN code [11]

Setup data	Model
0000[*1]	Invalid
0001	007 type
0003	009 type
0005	012 type
0007	015 type
0009	018 type
0011	024 type
0012	027 type
0013	030 type
0015	036 type
0017	048 type
0018	056 type
0021	072 type
0023	096 type
~	—

*1 Default value stored EEPROM mounted on service P.C. board.
NOTE: Setup data 0016, 0018, 0050 is RBC-AMT32E only.

# 11. Specific Indoor Unit Priority Mode
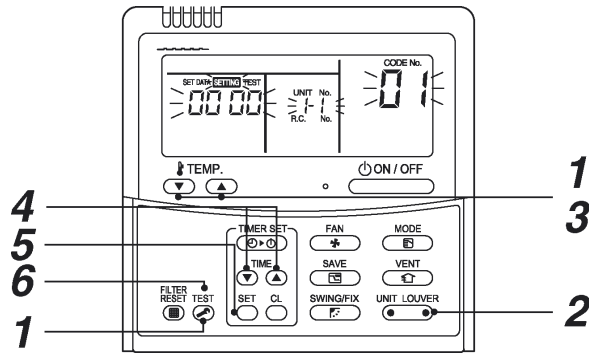
< Procedure >

1 **Push ⓐ button and temp. setup ▼ button simultaneously for at least 4 seconds.**

After a while, the display flashes as shown in the figure. Confirm that the CODE No. is [01].

• If the CODE No. is not [01], push ⓐ button to erase the display content, and repeat the procedure from the beginning.
(No operation of the remote controller is accepted for a while after ⓐ button is pushed.)
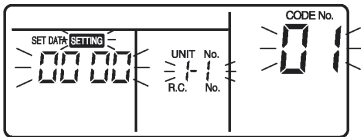
(∗ Display content varies with the indoor unit model.)

2 **Each time you push ⓐ button, indoor unit numbers in the control group change cyclically.**

Select the indoor unit you want to change settings for.
The fan of the selected unit runs. You can confirm the indoor unit for which you want to change settings.
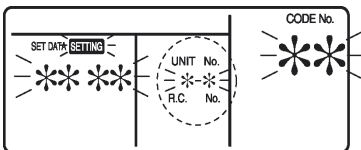
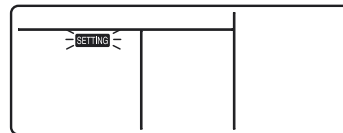**3** **Using temp. setup ▼ / ▲ buttons, specify CODE No. [∗∗].**

4 **Using timer time ▼ / ▲ buttons, select SET DATA [∗∗∗∗].**

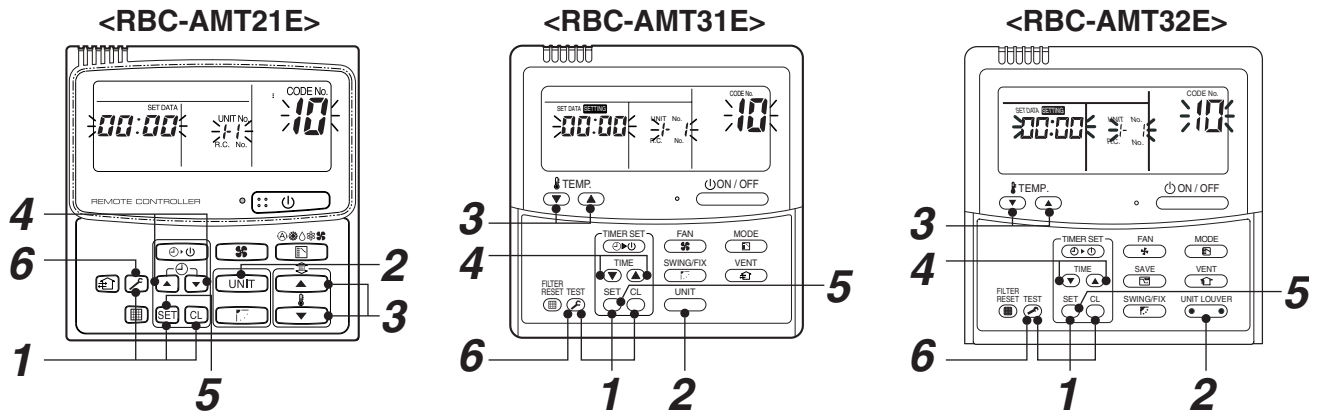**5** **Push ◯ button. When the display changes from flashing to lit, the setup is completed.**

• To change settings of another indoor unit, repeat from **Procedure 2**.

• To change other settings of the selected indoor unit, repeat from **Procedure 3**.
Use ◯ button to clear the settings.
To make settings after ◯ button was pushed, repeat from **Procedure 2**.

6 **When settings have been completed, push ⓐ button to determine the settings.**

When ⓐ button is pushed, "SETTING" flashes and then the display content disappears and the air conditioner enters the normal stop mode.
(While "SETTING" is flashing, no operation of the remote controller is accepted.)

SMMS, MiNi-SMMS, SMMS-i, SHRM. SHRM-i Series

\<RBC-AMT21E>

\<RBC-AMT31E>

\<RBC-AMT32E>

Procedure	Operation contents
1	When pushing the SET + CL + TEST buttons at the same time for 4 seconds or more, as shown in the figure, the display section flashes and after a short period of time the following confirmation code should be displayed [*10*]. • When the item code is one other than [*10*], push the TEST button to eliminate the display and then repeat the procedure from the first step. (The remote controller operation is not accepted for approx. 1 minute after pushing the TEST button.) (In a group control, the indoor unit with its number displayed first is set to the header unit.)
2	For every push of the UNIT, the indoor unit numbers in the group control are successively displayed. Select the indoor unit of which setup is to be changed. In this time, the fan and louver of the selected indoor unit will operate allowing you to identify the position of the indoor unit of which the setup is to be changed.
3	Using the TEMP. ▼ ▲ buttons, specify the item code [*04*].
4	Using the TIME ▼ ▲ buttons, select the setup data [*0001*]. Priority: *0001* , No priority: *0000*
5	Push the SET button. In this time, the setup operation finishes when the display changes from flashing to lighting.
6	After setup operation has finished, push the TEST button. (Setup is determined.) When pushing the TEST button, the display disappears and the status returns to the usual stop status. (The remote controller operation is not accepted for approx. 1 minute.)

(NOTE)

Only one indoor unit can be set to "Priority". If the multiple indoor units are accidentally set to "Priority", an error code (L05 or L06: Duplicated indoor unit priority) is displayed.

To the unit displaying "L05", [0001 (Priority)] is setup. Separate a unit which you will give priority from the other indoor units, and return the setup data of the other indoor units to [0000 (No priority)].

Error code	Error contents
L05	Indoor unit priority duplication ([*0001*] is set up.)
L06	Indoor unit priority duplication ([*0000*] is set up.)

\<RBC-AMT21E button>

1 SET, CL and 🔧

2 UNIT

3 ▲ and ▼

4 ⌃ and ⌄

5 SET

6 🔧

\<RBC-AMT32E button>

2 UNIT LOUVER