

# TOSHIBA

OPERATING MANUAL  
MODE D'EMPLOI  
BEDIENUNGSANLEITUNG  
MANUALE DI FUNZIONAMENTO  
MANUAL DE USO  
MANUAL DE FUNCIONAMENTO  
BEDIENINGSHANDLEIDING  
ΕΓΧΕΙΡΙΔΙΟ ΛΕΙΤΟΥΡΓΙΑΣ  
操作手册

## STANDARD REMOTE CONTROLLER RBC-AMT31E

### Object Indoor Unit

#### Super Modular Multi System/ Super Heat Recovery System

<4-way Air Discharge Cassette Type>

MMU-AP0091H, AP0121H, AP0151H, AP0181H, AP0241H,  
MMU-AP0271H, AP0301H, AP0361H, AP0481H, AP0561H

<2-way Air Discharge Cassette Type>

MMU-AP0071WH, AP0091WH, AP0121WH, AP0151WH, AP0181WH, AP0241WH,  
MMU-AP0271WH, AP0301WH MMU-AP0481WH (CHINA market only)

<1-way Air Discharge Cassette Type>

MMU-AP0071YH, AP0091YH, AP0121YH, AP0151SH, AP0181SH, AP0241SH

<Concealed Duct Standard Type>

MMD-AP0071BH, AP0091BH, AP0121BH, AP0151BH, AP0181BH, AP0241BH,  
MMD-AP0271BH, AP0301BH, AP0361BH, AP0481BH, AP0561BH

<Concealed Duct High Static Pressure Type>

MMD-AP0181H, AP0241H, AP0271H, AP0361H, AP0481H, AP0721H, AP0961H

<Under Ceiling Type>

MMC-AP0151H, AP0181H, AP0241H, AP0271H, AP0361H, AP0481H

<High Wall Type>

MMK-AP0071H, AP0072H, AP0091H, AP0092H, AP0121H, AP0122H,  
MMK-AP0151H, AP0181H, AP0241H

<Floor Standing Cabinet Type>

MML-AP0071H, AP0091H, AP0121H,  
MML-AP0151H, AP0181H, AP0241H

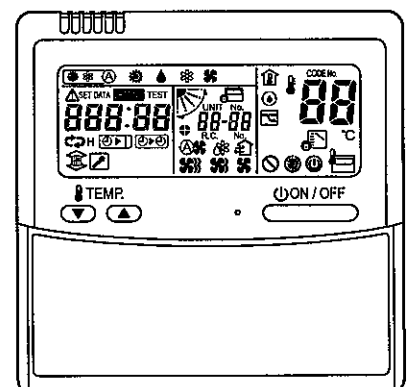
<Floor Standing Concealed Type>

MML-AP0071BH, AP0091BH, AP0121BH,  
MML-AP0151BH, AP0181BH, AP0241BH

<Floor Standing Type>

MMF-AP0151H, AP0181H, AP0241H, AP0271H,  
MMF-AP0361H, AP0481H, AP0561H

For commercial use  
Pour usage commercial  
Nur für gewerbliche Nutzung  
Per uso commerciale  
Para uso comercial  
Para uso comercial  
Voor commercieel gebruik  
Για εμπορική χρήση  
商用



## ADOPTION OF NEW REFRIGERANT

This Air Conditioner is a new type which adopts a new refrigerant HFC (R410A) instead of the conventional refrigerant R22 in order to prevent destruction of the ozone layer.

## CAUTION

- Before using the remote controller (RBC-AMT31E), please read this Operating Manual.
- For installation except operation of the remote controller, refer to the Installation Manual attached to the air conditioner unit.
- To use this remote controller safely and correctly, read this Operating Manual thoroughly before use for full understanding.
- After you read this manual, be sure to keep it so that one who uses the remote controller can read this manual anytime. If another person uses the remote controller, necessarily hand the Manual to him or her.

## PRUDENCE

- Avant d'utiliser la télécommande (RBC-AMT31E), veuillez lire ce Mode d'emploi.
- Consultez le Manuel d'installation du climatiseur uniquement pour installer la télécommande, pas pour la faire fonctionner.
- Pour utiliser cette télécommande de façon correcte et sûre, lisez attentivement ce Mode d'emploi en entier afin de bien le comprendre.
- Lorsque vous avez fini de lire ce Mode d'emploi, rangez-le soigneusement pour pouvoir le consulter par la suite.  
Si une autre personne doit utiliser la télécommande, remettez-lui ce Mode d'emploi.

## VORSICHT

- Lesen Sie diese Bedienungsanleitung, bevor Sie die Fernbedienung (RBC-AMT31E) benutzen.
- Einzelheiten zur Installation der Fernbedienung finden Sie in dem dem Klimagerät beiliegenden Installationshandbuch.
- Lesen Sie das Handbuch sorgfältig, so dass Sie den Inhalt verstehen, um die Fernbedienung sicher und korrekt zu bedienen.
- Bewahren Sie das Handbuch nach dem Lesen so auf, dass jeder, der die Fernbedienung benutzen will, Zugriff auf das Handbuch hat. Will eine andere Person die Fernbedienung benutzen, händigen Sie ihr das Handbuch aus.

## AVVERTENZA

- Prima di utilizzare il telecomando (RBC-AMT31E), leggere questo manuale di funzionamento.
- Per l'installazione eccetto il funzionamento del telecomando, fare riferimento al manuale di installazione fornito con il condizionatore d'aria.
- Per utilizzare questo telecomando correttamente e in condizioni di sicurezza, prima dell'uso leggere completamente questo Manuale di funzionamento per comprenderlo bene.
- Dopo aver letto questo manuale, conservarlo in modo che ci deve usare il telecomando possa leggerlo.  
Se un'altra persona deve usare il telecomando, bisogna passarle il Manuale da leggere.

## PRECAUCIÓN

- Lea este Manual del uso antes de utilizar el mando a distancia (RBC-AMT31E).
- Para conocer más detalles sólo acerca de la instalación del mando a distancia, consulte el Manual de instalación que se adjunta con el aparato de aire acondicionado.
- Para utilizar este mando a distancia de manera correcta y segura, lea con atención este Manual de uso antes de utilizarlo para asegurarse de que entienda totalmente su funcionamiento.
- Después de leer este manual, asegúrese de guardarlo, de modo que cualquier persona que utilice el mando a distancia pueda leerlo en cualquier momento. Si otra persona utiliza el mando a distancia, entréguele este Manual.

## GUIDADO

- Antes de utilizar o controlador remoto (RBC-AMT31E), leia o presente Manual de Funcionamento.
- Para pormenores acerca da instalação, excluindo o funcionamento, do controlador remoto, consulte o Manual de Instalação fornecido com o aparelho de ar condicionado.
- Para utilizar este controlador remoto em segurança e correctamente, leia atentamente o presente Manual de Funcionamento antes da sua utilização para um entendimento exaustivo.
- Depois da leitura do presente manual, guarde-o para que quem utilizar o controlador remoto o possa ler em qualquer altura.  
Se outra pessoa utilizar o controlador remoto, faculte-lhe o Manual.

## LET OP

- Lees, voordat u de afstandsbediening (RBC-AMT31E) gaat gebruiken, deze bedieningshandleiding.
- Meer informatie over het installeren, behalve de installatie van de afstandsbediening, vindt u in de installatiehandleiding bij de airconditionerunit.
- Lees voor een veilig en correct gebruik van deze afstandsbediening deze bedieningshandleiding aandachtig door.
- Bewaar deze handleiding, zodat u deze in de toekomst zonedig nogmaals kunt nalezen.  
Overhandig de handleiding, als iemand anders de afstandsbediening gebruikt, aan deze persoon.

## ΠΡΟΣΟΧΗ

- Πριν χρησιμοποιήσετε το τηλεχειριστήριο (RBC-AMT31E), παρακαλούμε διαβάστε αυτό το Εγχειρίδιο Λειτουργίας.
- Για την εγκατάσταση, εκτός από τη λειτουργία του τηλεχειριστηρίου, δείτε το Εγχειρίδιο Εγκατάστασης που είναι προσαρτημένο στη μονάδα κλιματισμού.
- Για να χρησιμοποιήσετε αυτό το τηλεχειριστήριο με ασφαλή τρόπο και σωστά, διαβάστε προσεκτικά αυτό το Εγχειρίδιο Εγκατάστασης ώστε να κατανοήσετε καλά τη λειτουργία του.
- Αφού διαβάσετε αυτό το εγχειρίδιο, φυλάξτε το, ώστε να μπορεί ανά πάσα στιγμή να το διαβάσει κάποιος που θα χρησιμοποιήσει το τηλεχειριστήριο.  
Αν ένα άλλο άτομο χρησιμοποιήσει το τηλεχειριστήριο, δώστε του αυτό το Εγχειρίδιο.

## 注意事项

- 在使用遥控器 (RBC-AMT31E) 之前, 请阅读本操作手册。
- 对于除遥控器操作之外的安装, 请参见空调机的随机安装手册。
- 为了安全和正确地使用本遥控器, 请在使用之前完全阅读并理解本操作手册。
- 阅读本手册之后请保存好, 以便本遥控器的用户可以随时阅读。  
如果其他人使用本遥控器, 则要将本手册移交给他 (她)。

## CONTENTS

<b>1</b> SAFETY CAUTION ..... 1 <b>2</b> ELECTRIC WORK ..... 1 <b>3</b> PARTS NAME OF REMOTE CONTROLLER ..... 2 <b>4</b> CORRECT USAGE ..... 4 <b>5</b> APPLICABLE CONTROLS ..... 5	<b>6</b> APPLICABLE CONTROL ..... 6 <b>7</b> TEST RUN ..... 8 <b>8</b> TROUBLESHOOTING ..... 9 <b>9</b> ADDRESS SETUP ..... 10
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------

## SOMMAIRE

<b>1</b> MESURES DE SECURITE ..... 14 <b>2</b> TRAVAUX D'ÉLECTRICITÉ ..... 14 <b>3</b> NOM DES PIÈCES DE LA TELECOMMANDE ..... 15 <b>4</b> UTILISATION CORRECTE ..... 17 <b>5</b> COMMANDES UTILISABLES ..... 18	<b>6</b> COMMANDES UTILISABLES ..... 19 <b>7</b> ESSAI DE FONCTIONNEMENT ..... 21 <b>8</b> DÉPANNAGE ..... 22 <b>9</b> REGLAGE D'ADRESSE ..... 23
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------

## INHALT

<b>1</b> SICHERHEITSHINWEISE ..... 27 <b>2</b> ELEKTROARBEITEN ..... 27 <b>3</b> TEILEBEZEICHNUNG DER FERNBEDIENUNG ..... 28 <b>4</b> RICHTIGE HANDHABUNG ..... 30 <b>5</b> STEUERUNGSMÖGLICHKEITEN ..... 31	<b>6</b> STEUERUNGSMÖGLICHKEITEN ..... 32 <b>7</b> TESTLAUF ..... 34 <b>8</b> FEHLERSUCHE ..... 35 <b>9</b> ADRESS-EINSTELLUNG ..... 36
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------

## INDICE

<b>1</b> PRECAUZIONI DI SICUREZZA ..... 40 <b>2</b> COLLEGAMENTI ELETTRICI ..... 40 <b>3</b> NOME DELLE PARTI DEL TELECOMANDO ..... 41 <b>4</b> USO CORRETTO ..... 43 <b>5</b> COMANDI APPLICABILI ..... 44	<b>6</b> COMANDI APPLICABILI ..... 45 <b>7</b> FUNZIONAMENTO DI PROVA ..... 47 <b>8</b> RISOLUZIONE DEI PROBLEMI ..... 48 <b>9</b> IMPOSTAZIONE DELL'INDIRIZZO ..... 49
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

## CONTENIDO

<b>1</b> PRECAUCIONES DE SEGURIDAD ..... 53 <b>2</b> INSTALACIÓN ELÉCTRICA ..... 53 <b>3</b> DESCRIPCIÓN DE LOS BOTONES DEL CONTROL REMOTO ..... 54 <b>4</b> UTILIZACIÓN CORRECTA ..... 56	<b>5</b> CONTROLES APLICABLES ..... 57 <b>6</b> ELEMENTOS CONTROLABLES ..... 58 <b>7</b> PRUEBA DE FUNCIONAMIENTO ..... 60 <b>8</b> RESOLUCIÓN DE PROBLEMAS ..... 61 <b>9</b> CONFIGURAR LAS IDENTIFICACIONES ..... 62
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

## ÍNDICE

<b>1</b> PRECAUÇÃO DE SEGURANÇA ..... 66 <b>2</b> TRABALHOS DE ELECTRICIDADE ..... 66 <b>3</b> NOME DAS PEÇAS DO CONTROLADOR REMOTO ..... 67 <b>4</b> UTILIZAÇÃO CORRECTA ..... 69	<b>5</b> CONTROLOS APLICÁVEIS ..... 70 <b>6</b> CONTROLO APLICÁVEL ..... 71 <b>7</b> TESTE DE FUNCIONAMENTO ..... 73 <b>8</b> RESOLUÇÃO DE PROBLEMAS ..... 74 <b>9</b> DEFINIÇÃO DO ENDEREÇO ..... 75
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

## INHOUD

<b>1</b> AANDACHTSPUNTEN VOOR UW VEILIGHEID ..... 79 <b>2</b> ELEKTRISCHE BEDRADING ..... 79 <b>3</b> BENAMING VAN DE ONDERDELEN VAN DE AFSTANDSBEDIENING ..... 80 <b>4</b> CORRECT GEBRUIK ..... 82	<b>5</b> BEDIENINGSELEMENTEN ..... 83 <b>6</b> BEDIENINGSELEMENT ..... 84 <b>7</b> WERKINGSTEST ..... 86 <b>8</b> STORINGEN VERHELPEM ..... 87 <b>9</b> EEN ADRES INSTELLEN ..... 88
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

## ΠΕΡΙΕΧΟΜΕΝΑ

<b>1</b> ΠΡΟΦΥΛΑΞΕΙΣ ΓΙΑ ΤΗΝ ΑΣΦΑΛΕΙΑ ..... 92 <b>2</b> ΗΛΕΚΤΡΙΚΗ ΕΡΓΑΣΙΑ ..... 92 <b>3</b> ΟΝΟΜΑΣΙΑ ΤΜΗΜΑΤΩΝ ΤΟΥ ΤΗΛΕΧΕΙΡΙΣΤΗΡΙΟΥ ..... 93 <b>4</b> ΟΡΘΗ ΧΡΗΣΗ ..... 95	<b>5</b> ΕΦΑΡΜΟΣΙΜΟΙ ΕΛΕΓΧΟΙ ..... 96 <b>6</b> ΣΧΕΤΙΚΑ ΧΕΙΡΙΣΤΗΡΙΑ ..... 97 <b>7</b> ΔΟΚΙΜΗ ΛΕΙΤΟΥΡΓΙΑΣ ..... 99 <b>8</b> ΑΝΤΙΜΕΤΩΠΙΣΗ ΠΡΟΒΛΗΜΑΤΩΝ ..... 100 <b>9</b> ΚΑΘΟΡΙΣΜΟΣ ΤΗΣ ΔΙΕΥΘΥΝΣΗΣ ..... 101
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

## 目 录

<b>1</b> 安全注意事项 ..... 105 <b>2</b> 电气工程 ..... 105 <b>3</b> 遥控器部件的名称 ..... 106 <b>4</b> 正确的使用方法 ..... 108 <b>5</b> 适用控制 ..... 109	<b>6</b> 应用控制 ..... 110 <b>7</b> 试运转 ..... 112 <b>8</b> 故障处理 ..... 113 <b>9</b> 地址设置 ..... 114
----------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------

ENGLISH

FRANCAIS

DEUTSCH

ITALIANO

ESPAÑOL

PORTUGUÊS

NEDERLANDS

ΕΛΛΗΝΙΚΑ

中文

# 1 SAFETY CAUTION

- Please read this “Safety Cautions” thoroughly before installation to install the air conditioner correctly.
- The important contents concerned to the safety are described in the “Safety Cautions”. Be sure to keep them. For Indications and their meanings, see the following description.

## ■ Explanation of indications

### ⚠ WARNING

Indicates possibilities that a death or serious injury of personnel is caused by an incorrect handling.

### ⚠ CAUTION

Indicates contents that an injury (\*1) or property damage (\*2) only may be caused when an incorrect work has been executed.

\*1 : “Injury” means a hurt, a burn, or an electric shock which does not require hospitalization or a long-term going to the hospital.

\*2 : “Property damage” means an enlarged damage concerned to property, or breakage of materials.

- **Make sure to ask the qualified installation professional in electric work to install the air conditioner.**

If the air conditioner is inappropriate installed by yourself, it may cause water leak, electric shock, fire, and so on.

- **A person qualified for the electric work should deal with the electric construction conforming to the regulations of the local electric company and the Installation Manual.**

- **For wiring, use the specified wires and connect them securely so that external force of wire does not transmit to the terminal connecting section.**

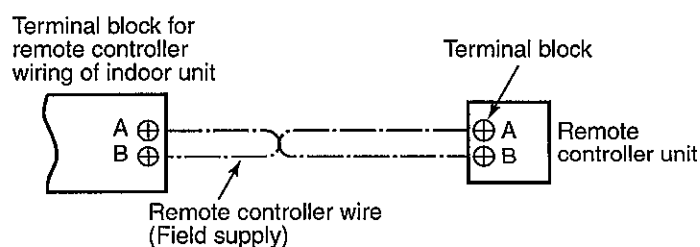
If connection or fixing is incomplete, a fire, etc may be caused.

# 2 ELECTRIC WORK

## Remote controller wiring

- As the remote controller wire has no polarity, there is no problem if connections to indoor unit terminal blocks A and B are reversed.

### <Wiring diagram>

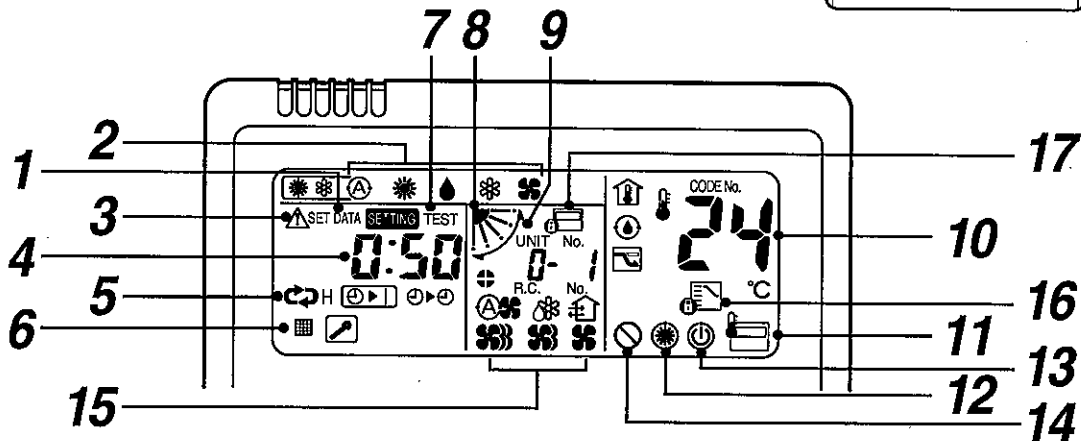
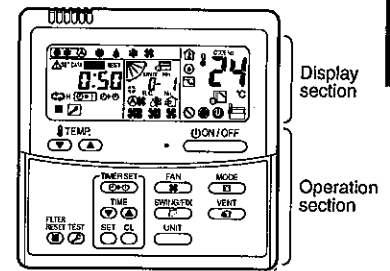


# 3 PARTS NAME OF REMOTE CONTROLLER

## Display section

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

- When turning on the leak breaker at the first time, [SET DATA] 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 [SET DATA] display has disappeared, and then use the remote controller.



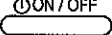
- 1 SET DATA display**  
Displayed during setup of the timer.
- 2 Operation mode select display**  
The selected operation mode is displayed.
- 3 CHECK display**  
Displayed while the protective device works or a trouble occurs.
- 4 Timer time display**  
Time of the timer is displayed.  
(When a trouble occurs, the check code is displayed.)
- 5 Timer SETIN setup display**  
When pushing the Timer SETIN 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 Flap position display (for 4-Way Air Discharge Cassette Type and Under Ceiling Type model only)**  
Displays flap position.
- 9 SWING display**  
Displayed during up/down movement of the flap.
- 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 (for 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 Operation ready display**  
Displayed when cooling or heating operation is impossible because the outdoor temperature goes out of the operable range.
- 14 No function display**  
Displayed if there is no function even if the button is pushed.
- 15 Air volume select display**  
The selected air volume mode is displayed.  
(AUTO) (HIGH)   
(MED.) (LOW)
- 16 Mode select control display**  
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.
- 17 Central control display**  
Displayed when using the remote controller together with the central control remote controller, etc.  
If Remote controller is prohibited at the central control side, flashes when operating , , / buttons and the change is not accepted.  
(The contents available to be set up on the remote controller differ according to the central control mode. For details, refer to Owner's Manual of the central control remote controller.)

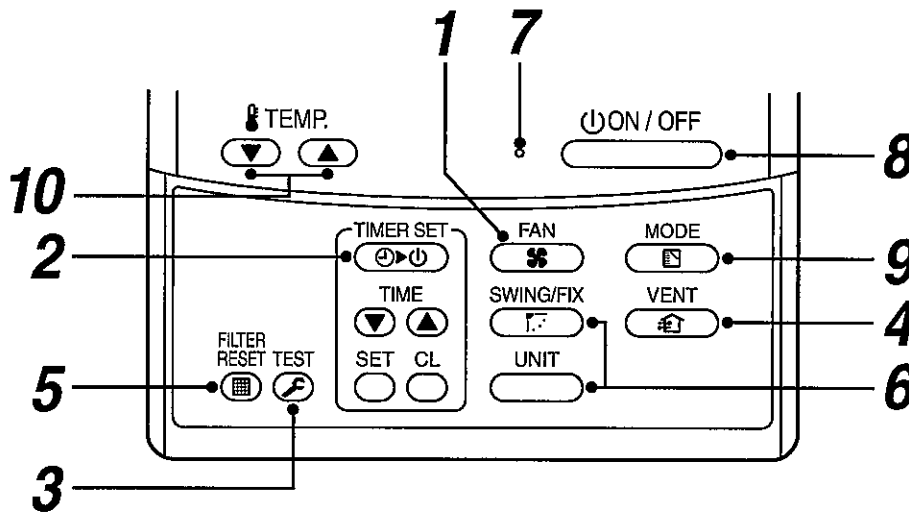
# 3 PARTS NAME OF REMOTE CONTROLLE

## Operation section

Push each button to select a desired operation.

This remote controller can operate the maximum 8 indoor units.

- The details of the operation needs to be set up once, afterward, the air conditioner can be used by pushing  button only.



### 1 Air volume select button

Selects the desired air volume mode.  
The Concealed Duct High Static Pressure type models cannot be operated.

### 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 Fan button


FAN button is used when a fan which is sold on the market or etc. is connected.  


- If  is displayed on the remote controller when pushing the FAN button, a fan is not connected.

### 5 Filter reset button

Resets (Erases) "FILTER 

### 6 Wind direction and Swing

 :  
If the multiple indoor units are operated by only one remote controller, select the units when the air direction is adjusted.

 :  
Set up the auto swing and angle of the flap.

- 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.

### 7 Operation lamp

Lamp is lit during the operation. Lamp is off when stopped.  
Although it flashes when operating the protection device or abnormal time.



### 8 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.

### 9 Operation select button

Selects desired operation mode.

### 10 Set up temperature button

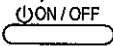
Adjusts the room temperature.  
Set the desired set temperature by pushing  or .

## 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.

# 4 CORRECT USAGE

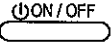
When you use the air conditioner for the first time or when you change the SET DATA value, follow the procedure below. From the next time, the operation displayed on the remote controller will start by pushing the  button only.

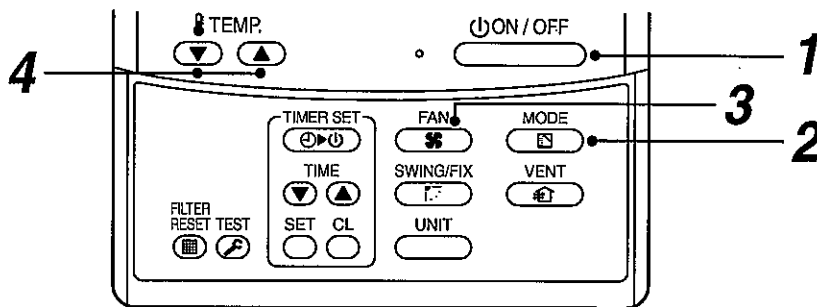
## Preparation


Turn on the main power switch and/or the leakage breaker.

- When the power supply is turned on, a partition line is displayed on the display part of the remote controller.
- \* After the power supply is turned on, the remote controller does not accept an operation for approx. 1 minute, but it is not a failure.

### REQUIREMENT

- While using the air conditioner, operate it only with  button without turning off the main power switch and the leak breaker.
- Do not turn off the leak breaker while the air conditioner is used.
- Turn on the leak breaker 12 hours or more before start of operation after the air conditioner has stopped for a long time.





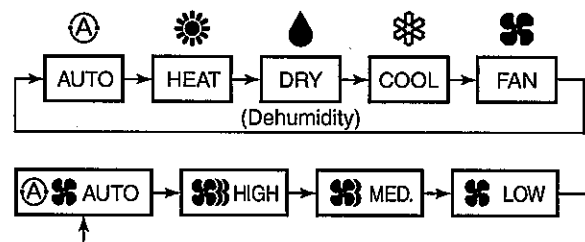
**1** Push  button.

The operation lamp goes on, and the operation starts.

**2** Select an operation mode with the  button.








One push of the button, and the display changes in the order shown on the right.

- “DRY  mode” function is not provided to Concealed Duct High Static Pressure Type.
- “AUTO  mode” function is provided to Super Heat Recovery model only.




**3** Select air volume with  button.

One push of the button, and the display changes in the order shown on the right.

- When air volume is “AUTO ”, air volume differs according to the room temperature.
- In DRY  mode, “AUTO ” is displayed and the air volume is LOW.
- In heating operation, if the room temperature is not heated sufficiently with volume “LOW ” operation, select “MED. ” or “HIGH ” operation.
- The temperature which the temperature sensor detects is one near the air inlet of the indoor unit. Therefore it slightly differs from the room temperature according to the installation status. The setup value is a criterion of the room temperature. (Automatic air speed cannot be selected in FAN mode.)
- Air volume of function is not provided to “Concealed Duct High Static Pressure Type” but air speed “HIGH ” only is displayed.

**4** Determine the set up temperature by pushing the “TEMP. ” or “TEMP. ” button.

## Stop

Push  button.

The operation lamp goes off, and the operation stops.

# 5 APPLICABLE CONTROLS

## REQUIREMENT

When using the equipment at the first time, it will take a lot of time that the remote controller accepts an operation after power was on. However, it is not a trouble.

- **Automatic address**
  - While automatic addressing, the operation cannot be performed on the remote controller.
  - For automatic addressing, Max. 10 minutes (generally, approx. 5 minutes) are required.
- **When power will be turned on after finish of automatic addressing;**
  - It will require Max. 10 minutes (generally, approx. 3 minutes) that outdoor unit starts operation after power was on.

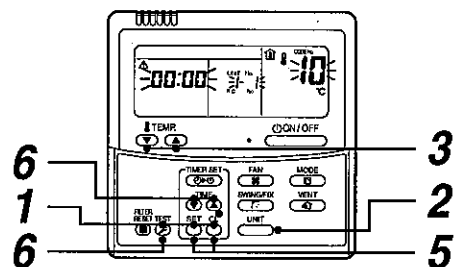
As all have been set to [Standard] at the shipment, change the setup of the indoor unit if necessary. To change the setup, use the main remote controller (Wired remote controller).

\* The setup change for wireless remote controller, sub remote controller, or remote controller-less system (Central control remote controller only is provided.) is impossible. In these cases, prepare and mount a separate main remote controller.

## Exchange of applicable control setup


### Basic operation procedure for setup exchange

Change the setup while operation of the equipment stops.  
(Be sure to stop the operation of a set.)



Procedure	Description
1	<p>When pushing <b>SET</b>, <b>CL</b>, and <b>TEST</b> buttons simultaneously for 4 seconds or more, after a while, the display part flashes as shown in the figure.</p> <p>Check that the displayed item code is [10].</p> <ul style="list-style-type: none"> <li>• If the item code indicates other than [10], push <b>TEST</b> button to erase the display, and then retry the operation from the first step. (For some time after <b>TEST</b> button has been pushed, the operation of the remote controller cannot be accepted.)</li> </ul> <p>(In a group control, the firstly displayed indoor unit No. becomes the header unit.)</p>
2	<p>Every pushing <b>UNIT</b> button, the indoor unit No. in the group control is displayed successively.</p> <p>Select an indoor unit of which setup to be changed.</p> <p>In this time, the position of the indoor unit of which setup to be changed can be confirmed because the fan and the flap of the selected indoor unit work.</p>
3	<p>Using <b>▼</b>, <b>▲</b> buttons of set temperature, specify the item code [**].</p>
4	<p>Using <b>▼</b>, <b>▲</b> buttons of timer time, select set data [****].</p>
5	<p>Push <b>SET</b> button. In this time, if the display changes from flashing to lighting, the setup completes.</p> <ul style="list-style-type: none"> <li>• To change the setup of an indoor unit other than the selected one, start operation from Procedure 2.</li> <li>• To change the setup of another setup in the selected indoor unit, start operation from Procedure 3.</li> </ul> <p>Pushing <b>CL</b> button clears the set up contents which have been already set. In this case, retry from Procedure 2.</p>
6	<p>When the setup finished, push <b>TEST</b> button. (The setup is determined.)</p> <p>Pushing <b>TEST</b> button deletes the display and returns the status to normal stop status.</p> <p>(For some time after <b>TEST</b> button has been pushed, the operation of the remote controller cannot be accepted.)</p>

# 6 APPLICABLE CONTROL

Item	Contents	Item code	Setup data																
1. Change of lighting time of filter sign	Time when the filter sign (Notification of filter cleaning) goes on can be changed according to installation conditions.	01	<table border="1"> <thead> <tr> <th>Setup data</th> <th>0000</th> <th>0001</th> <th>0002</th> <th>0003</th> <th>0004</th> </tr> </thead> <tbody> <tr> <td>Lighting time of filter sign</td> <td>None</td> <td>150H</td> <td>2500H (At shipment)</td> <td>5000H</td> <td>10000H</td> </tr> </tbody> </table> <p>* The setup data of the High wall, Floor, or Kitchen of Under-ceiling type is 0001 at shipment.</p>	Setup data	0000	0001	0002	0003	0004	Lighting time of filter sign	None	150H	2500H (At shipment)	5000H	10000H				
Setup data	0000	0001	0002	0003	0004														
Lighting time of filter sign	None	150H	2500H (At shipment)	5000H	10000H														
2. To increase heating effect	If it is difficult to increase heating effect due to installation place of indoor unit or structure of room, the detection temperature of heating can be raised. Besides circulate the hot air near the ceiling by using a circulator, etc.	06	<table border="1"> <thead> <tr> <th>Setup data</th> <th>0000</th> <th>0001</th> <th>0002</th> <th>0003</th> <th>0004</th> <th>0005</th> <th>0006</th> </tr> </thead> <tbody> <tr> <td>Shift value of detection temp.</td> <td>No shift</td> <td>+1°C</td> <td>+2°C (At shipment)</td> <td>+3°C</td> <td>+4°C</td> <td>+5°C</td> <td>+6°C</td> </tr> </tbody> </table> <p>* The setup data of Floor type is 0000 at shipment.</p>	Setup data	0000	0001	0002	0003	0004	0005	0006	Shift value of detection temp.	No shift	+1°C	+2°C (At shipment)	+3°C	+4°C	+5°C	+6°C
Setup data	0000	0001	0002	0003	0004	0005	0006												
Shift value of detection temp.	No shift	+1°C	+2°C (At shipment)	+3°C	+4°C	+5°C	+6°C												
3. Selection of cooling only	Set up this item when connecting the simultaneous twin/simultaneous triple system to the cooling only outdoor unit.	0F	<table border="1"> <thead> <tr> <th>Setup data</th> <th>0000</th> <th>0001</th> </tr> </thead> <tbody> <tr> <td>Cooling only select</td> <td>Cool/Heat (At shipment)</td> <td>Cooling only (No heating/auto)</td> </tr> </tbody> </table>	Setup data	0000	0001	Cooling only select	Cool/Heat (At shipment)	Cooling only (No heating/auto)										
Setup data	0000	0001																	
Cooling only select	Cool/Heat (At shipment)	Cooling only (No heating/auto)																	
4. Ventilation fan	Set up this item when a ventilation fan is connected.	31	<table border="1"> <thead> <tr> <th>Setup data</th> <th>0000</th> <th>0001</th> </tr> </thead> <tbody> <tr> <td>Fan</td> <td>None (At shipment)</td> <td>Provided</td> </tr> </tbody> </table>	Setup data	0000	0001	Fan	None (At shipment)	Provided										
Setup data	0000	0001																	
Fan	None (At shipment)	Provided																	
5. Remote controller sensor	Set up this item to sense the temperature near the remote controller though usually the temp. sensor of the indoor unit senses room temp.	32	<table border="1"> <thead> <tr> <th>Setup data</th> <th>0000</th> <th>0001</th> </tr> </thead> <tbody> <tr> <td>Remote controller sensor</td> <td>Unused (At shipment)</td> <td>Used</td> </tr> </tbody> </table> <p>If  flashes, the remote controller sensor is defective. Stop to use the remote controller sensor (Setup data: 0000) or exchange the remote controller.</p>	Setup data	0000	0001	Remote controller sensor	Unused (At shipment)	Used										
Setup data	0000	0001																	
Remote controller sensor	Unused (At shipment)	Used																	
6. Air sheltering	<p>■ <b>Air Discharge Cassette type (4-way discharge type)</b></p> <p>To mount the air shelter kit sold separately, be sure to change the setup.</p>	88	<table border="1"> <thead> <tr> <th>Setup data</th> <th>0000</th> <th>0065</th> </tr> </thead> <tbody> <tr> <td>Air sheltering</td> <td>Not mounted (At shipment)</td> <td>Mounted</td> </tr> </tbody> </table>	Setup data	0000	0065	Air sheltering	Not mounted (At shipment)	Mounted										
Setup data	0000	0065																	
Air sheltering	Not mounted (At shipment)	Mounted																	

# 6 APPLICABLE CONTROL

Item	Contents	Item code	Setup data																																																																													
7. Filter sold separately (High ceiling setup, external static pressure setup)	<p>■ <b>Air Discharge Cassette type (4-way discharge type)</b></p> <p>Be sure to set up high ceiling when mounting filter sold separately.</p>	5d	<table border="1"> <thead> <tr> <th>Setup data</th> <th>0000</th> <th>0001</th> </tr> </thead> <tbody> <tr> <td>Filter sold separately</td> <td>Standard filter (At shipment)</td> <td>Super long life filter</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Setup data</th> <th>0003</th> <th>0006</th> </tr> </thead> <tbody> <tr> <td>Filter sold separately</td> <td>High-efficiency filter (65%) High-efficiency filter (90%)</td> <td></td> </tr> </tbody> </table>	Setup data	0000	0001	Filter sold separately	Standard filter (At shipment)	Super long life filter	Setup data	0003	0006	Filter sold separately	High-efficiency filter (65%) High-efficiency filter (90%)																																																																		
	Setup data	0000	0001																																																																													
	Filter sold separately	Standard filter (At shipment)	Super long life filter																																																																													
	Setup data	0003	0006																																																																													
	Filter sold separately	High-efficiency filter (65%) High-efficiency filter (90%)																																																																														
<p>■ <b>Air Discharge Cassette type (4-way discharge type)</b></p> <p>If height of the ceiling to be installed exceeds the standard height, adjustment of the air volume is necessary. Set up the high ceiling.</p>	5d	<p><b>Installable ceiling height list</b> (Unit: m)</p> <table border="1"> <thead> <tr> <th>Model MMU-</th> <th colspan="3">AP0091 to AP0151</th> <th colspan="3">AP0181 to AP0281</th> <th rowspan="2">Setup data</th> </tr> <tr> <th>Discharge direction</th> <th>4-ways</th> <th>3-ways</th> <th>2-ways</th> <th>4-ways</th> <th>3-ways</th> <th>2-ways</th> </tr> </thead> <tbody> <tr> <td>Standard (At shipment)</td> <td>2.7</td> <td>—</td> <td>3.0</td> <td>2.8</td> <td>3.2</td> <td>3.5</td> <td>0000</td> </tr> <tr> <td>High ceiling ①</td> <td>—</td> <td>—</td> <td>—</td> <td>3.2</td> <td>3.5</td> <td>3.8</td> <td>0001</td> </tr> <tr> <td>High ceiling ③</td> <td>—</td> <td>—</td> <td>—</td> <td>3.5</td> <td>3.8</td> <td>—</td> <td>0003</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Model MMU-</th> <th colspan="3">AP0301 to AP0361</th> <th colspan="3">AP0481 to AP0561</th> <th rowspan="2">Setup data</th> </tr> <tr> <th>Discharge direction</th> <th>4-ways</th> <th>3-ways</th> <th>2-ways</th> <th>4-ways</th> <th>3-ways</th> <th>2-ways</th> </tr> </thead> <tbody> <tr> <td>Standard (At shipment)</td> <td>3.0</td> <td>3.3</td> <td>3.6</td> <td>3.6</td> <td>3.9</td> <td>4.2</td> <td>0000</td> </tr> <tr> <td>High ceiling ①</td> <td>3.3</td> <td>3.5</td> <td>3.8</td> <td>3.9</td> <td>4.1</td> <td>4.3</td> <td>0001</td> </tr> <tr> <td>High ceiling ③</td> <td>3.6</td> <td>3.8</td> <td>—</td> <td>4.2</td> <td>4.3</td> <td>—</td> <td>0003</td> </tr> </tbody> </table>	Model MMU-	AP0091 to AP0151			AP0181 to AP0281			Setup data	Discharge direction	4-ways	3-ways	2-ways	4-ways	3-ways	2-ways	Standard (At shipment)	2.7	—	3.0	2.8	3.2	3.5	0000	High ceiling ①	—	—	—	3.2	3.5	3.8	0001	High ceiling ③	—	—	—	3.5	3.8	—	0003	Model MMU-	AP0301 to AP0361			AP0481 to AP0561			Setup data	Discharge direction	4-ways	3-ways	2-ways	4-ways	3-ways	2-ways	Standard (At shipment)	3.0	3.3	3.6	3.6	3.9	4.2	0000	High ceiling ①	3.3	3.5	3.8	3.9	4.1	4.3	0001	High ceiling ③	3.6	3.8	—	4.2	4.3	—	0003
Model MMU-	AP0091 to AP0151			AP0181 to AP0281			Setup data																																																																									
Discharge direction	4-ways	3-ways	2-ways	4-ways	3-ways	2-ways																																																																										
Standard (At shipment)	2.7	—	3.0	2.8	3.2	3.5	0000																																																																									
High ceiling ①	—	—	—	3.2	3.5	3.8	0001																																																																									
High ceiling ③	—	—	—	3.5	3.8	—	0003																																																																									
Model MMU-	AP0301 to AP0361			AP0481 to AP0561			Setup data																																																																									
Discharge direction	4-ways	3-ways	2-ways	4-ways	3-ways	2-ways																																																																										
Standard (At shipment)	3.0	3.3	3.6	3.6	3.9	4.2	0000																																																																									
High ceiling ①	3.3	3.5	3.8	3.9	4.1	4.3	0001																																																																									
High ceiling ③	3.6	3.8	—	4.2	4.3	—	0003																																																																									
<p>■ <b>Concealed Duct Standard type</b></p> <p>Be sure to change the setup data matching with filter type when mounting filter sold separately.</p>	5d	<table border="1"> <thead> <tr> <th>Setup data</th> <th>0000</th> <th>0001</th> </tr> </thead> <tbody> <tr> <td>Filter sold separately</td> <td>Standard filter (At shipment)</td> <td>High-efficiency filter (65%) High-efficiency filter (90%)</td> </tr> </tbody> </table>	Setup data	0000	0001	Filter sold separately	Standard filter (At shipment)	High-efficiency filter (65%) High-efficiency filter (90%)																																																																								
Setup data	0000	0001																																																																														
Filter sold separately	Standard filter (At shipment)	High-efficiency filter (65%) High-efficiency filter (90%)																																																																														
<p>■ <b>Concealed Duct Standard type</b></p> <p>Be sure to change the setup data matching with resistance (External static pressure) of duct to be connected.</p>	5d	<table border="1"> <thead> <tr> <th>Setup data</th> <th>0000</th> <th>0001</th> <th>0003</th> <th>0006</th> </tr> </thead> <tbody> <tr> <td rowspan="2">External static pressure</td> <td>40 Pa</td> <td>70 Pa *1</td> <td>100 Pa *2</td> <td>20 Pa</td> </tr> <tr> <td>Standard (At shipment)</td> <td>High static pressure 1</td> <td>High static pressure 2</td> <td>Low static pressure</td> </tr> </tbody> </table> <p>*1: 048 to 056 type becomes 65Pa. *2: 048 to 056 type becomes 90Pa.</p>	Setup data	0000	0001	0003	0006	External static pressure	40 Pa	70 Pa *1	100 Pa *2	20 Pa	Standard (At shipment)	High static pressure 1	High static pressure 2	Low static pressure																																																																
Setup data	0000	0001	0003	0006																																																																												
External static pressure	40 Pa	70 Pa *1	100 Pa *2	20 Pa																																																																												
	Standard (At shipment)	High static pressure 1	High static pressure 2	Low static pressure																																																																												
<p>■ <b>Under Ceiling type</b></p> <p>Be sure to set up high ceiling when mounting filter sold separately.</p>	5d	<table border="1"> <thead> <tr> <th>Setup data</th> <th>0000</th> <th>0001</th> </tr> </thead> <tbody> <tr> <td>Filter sold separately</td> <td>Standard filter (At shipment)</td> <td></td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Setup data</th> <th>0003</th> <th>0006</th> </tr> </thead> <tbody> <tr> <td>Filter sold separately</td> <td>High-efficiency filter (65%)</td> <td></td> </tr> </tbody> </table>	Setup data	0000	0001	Filter sold separately	Standard filter (At shipment)		Setup data	0003	0006	Filter sold separately	High-efficiency filter (65%)																																																																			
Setup data	0000	0001																																																																														
Filter sold separately	Standard filter (At shipment)																																																																															
Setup data	0003	0006																																																																														
Filter sold separately	High-efficiency filter (65%)																																																																															
<p>■ <b>Under Ceiling type</b></p> <p>If height of the ceiling to be installed exceeds 3.5m, adjustment of the air volume is necessary. Set up the high ceiling.</p>	5d	<p><b>Installable ceiling height list</b></p> <table border="1"> <thead> <tr> <th>Model MMC-</th> <th>AP018 to AP056</th> <th>Setup data</th> </tr> </thead> <tbody> <tr> <td>Standard (At shipment)</td> <td>3.5 m or less</td> <td>0000</td> </tr> <tr> <td>High ceiling ①</td> <td>4.0 m or less</td> <td>0001</td> </tr> </tbody> </table>	Model MMC-	AP018 to AP056	Setup data	Standard (At shipment)	3.5 m or less	0000	High ceiling ①	4.0 m or less	0001																																																																					
Model MMC-	AP018 to AP056	Setup data																																																																														
Standard (At shipment)	3.5 m or less	0000																																																																														
High ceiling ①	4.0 m or less	0001																																																																														

# 7 TEST RUN

## Before test operation

- Before turning on the power supply, carry out the following items.
  - 1) Using 500V-megger, check there is 1MΩ or more between the terminal block of the power supply and the earth. If 1MΩ or less is detected, do not run the unit.
  - 2) Check that all the valves of the outdoor unit are fully opened.
- Never push the electromagnetic contactor to carry out a forced test operation. (It is very dangerous because a protective device does not work.)
- It is necessary to address set up before operation. For the address setup, refer to the Installation Manual attached to the outdoor unit.

## WARNING

To protect the compressor at starting time, keep power-ON condition before 12 hours or more.

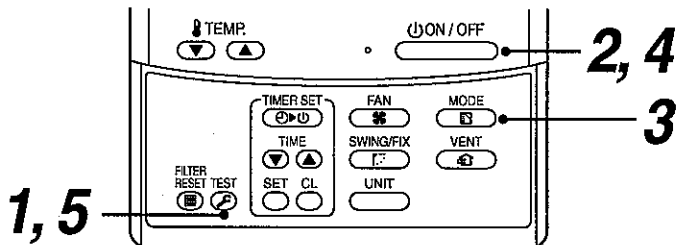
## How to execute test operation

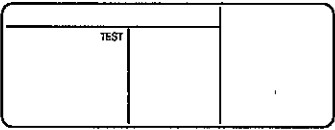
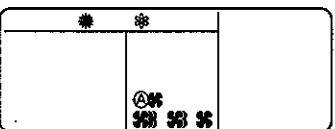

- To start the fan operation by indoor unit alone, turn off the power supply once, short-circuit CN72 on P.C. board, turn on the power supply again, change the operation mode to FAN, and then drive the fan. When executing a test operation using this method, be sure to release short-circuit of CN72.
- Using the remote controller, check the operation in the usual operation. For the operation procedure, refer to the attached Owner's Manual. A forced test operation can be executed in the following procedure under condition of thermo-OFF of room temperature. In order to prevent a serial operation, the forced test operation is released after 60 minutes and returns to the usual operation.

## NOTE

Do not use a forced operation in cases other than test operation because it applies an excessive load to the air conditioner.

## In case of wired remote controller



Procedure	Description
<b>1</b>	Keep <b>TEST</b> button pushed for 4 seconds or more. [TEST] is displayed on the display part and the selection of mode in the test mode is permitted. 
<b>2</b>	Push <b>ON/OFF</b> button.
<b>3</b>	Using <b>MODE</b> button, select the operation mode, [COOL] or [HEAT]. <ul style="list-style-type: none"> <li>• Do not run the air conditioner in a mode other than [COOL] or [HEAT].</li> <li>• The temperature controlling function does not work during test operation.</li> <li>• The detection of error is performed as usual.</li> </ul> 
<b>4</b>	After the test operation, push <b>ON/OFF</b> button to stop the operation. (Display part is same as procedure <b>1</b> )
<b>5</b>	Push <b>TEST</b> button to cancel (release from) the test operation mode. ([TEST] disappears on the display part and the status returns to a normal stop status.) 

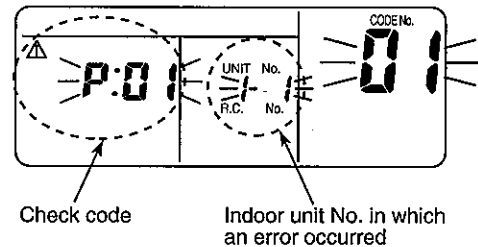
# 8 TROUBLESHOOTING

## Confirmation and check

When a trouble occurred in the air conditioner, the check code and the indoor unit No. appear on the display part of the remote controller.

The check code is only displayed during the operation.

If the display disappears, operate the air conditioner according to the following "Confirmation of error history" for confirmation.



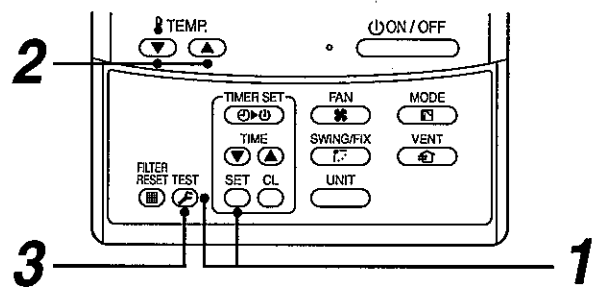
## Confirmation of error history

When a trouble occurred on the air conditioner, the error history can be confirmed with the following procedure.

(The error history is stored in memory up to 4 errors.)

This history can be confirmed from either operating status or stop status.

- For the **Check code list**, refer to the Installation Manual attached to the air conditioner unit.



Procedure	Description
1	<p>When pushing <b>SET</b> and <b>TEST</b> buttons simultaneously for 4 seconds or more, the right display appears.</p> <p>If [Service Check] is displayed, the mode enters in the error history mode.</p> <ul style="list-style-type: none"> <li>• [01: Order of error history] is displayed in CODE No. window.</li> <li>• [Check Code] is displayed in CHECK window.</li> <li>• [Indoor unit address in which an error occurred] is displayed in UNIT No.</li> </ul>
2	<p>Every pushing <b>TEMP.</b> buttons, the error history stored in the memory is displayed in order. The numbers in CODE No. indicates CODE No. [01] (Latest) → [04] (Oldest).</p> <p><b>CAUTION</b></p> <p>Do not push <b>CL</b> button because all the error history of the indoor unit will be deleted.</p>
3	<p>After confirmation, push <b>TEST</b> button to return to the usual display.</p>

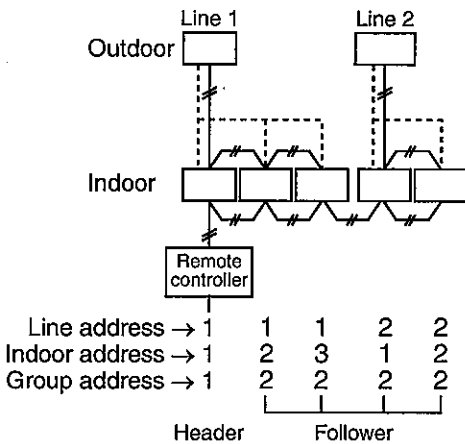
1. Check the troubles according to the above procedure.
2. Ask an authorized dealer or qualified service (maintenance) professional to repair or maintain the air conditioner.
3. More details of the service code are explained in Service Manual.

# 9 ADDRESS SETUP

## How to set up manual address from remote controller

In a case to determine indoor unit address on ahead when indoor wiring work finished and outdoor wiring was not finished (Manual setup from remote controller)

(Wiring example of 2 lines)



(Line address) →

(Indoor address) →

(Group address) →

For the above example, connect wired remote controller alone without remote controller inter-unit wires, and then set up address.

### Group address

Individual : 0000  
Header unit : 0001 } Group control  
Follower unit : 0002 }

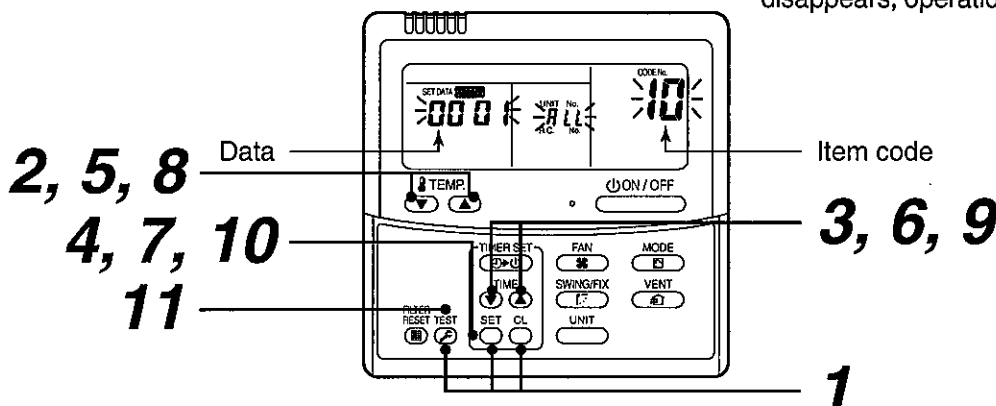
### Operation procedure

1 → 2 → 3 → 4 → 5 → 6 →  
7 → 8 → 9 → 10 → 11 End

Set the indoor unit to be set up and the remote controller as 1 : 1.

Turn on power supply.

- 1 Push **SET** + **CL** + **TEST** buttons simultaneously for 4 seconds or more.  
LCD flashes.
- 2 Using temp. setup **▼** / **▲** buttons, set ITEM CODE to *12*.
- 3 Using timer time **▼** / **▲** buttons, set up line address.  
(Match with line address on the interface P.C. board of the header unit in identical refrigerant line.)
- 4 Push **SET** button. (OK with display ON)
- 5 Using temp. setup **▼** / **▲** buttons, set ITEM CODE to *13*.
- 6 Using timer time **▼** / **▲** buttons, set up indoor unit address.
- 7 Push **SET** button. (OK with display ON)
- 8 Using temp. setup **▼** / **▲** buttons, set ITEM CODE to *14*.
- 9 Using timer time **▼** / **▲** buttons, set Individual= *0000*, Header unit= *0001*, Follower unit= *0002*.
- 10 Push **SET** button. (OK with display ON)
- 11 Push **TEST** button.  
Setup finished. (**SETTING** flashes. When **SETTING** disappears, operation becomes available.)



**Note 1)**

When setting up the line address from the remote controller, do not set up addresses 29 and 30. They are addresses which cannot be set up on the outdoor unit. If they are incorrectly set up, a check code [E04] (Indoor/Outdoor communication circuit error) appears.

**Note 2)**

When manual address has been set up from the remote controller and the central control works over the different refrigerant circuits, set up the following setting for the header units in each line.

- Using SW13 and 14 on the interface P.C. board of the header unit in each line, set up the line address for each line.
- Turn SW30-2 to OFF on the interface P.C. board of the header unit in the lines connected to the identical central control except the line with the least address No. (Put together terminal resistances of indoor/outdoor and central control system wires.)
- Connect the relay connector between [U1, U2] and [U3, U4] terminals of the header unit in each refrigerant line.
- After then set up the central control address. (For setup of the central control address, refer to the Installation Manual of central control devices.)

**Check of indoor unit address and unit position from remote controller**

■ Check of indoor unit No. and position

1. To recognize the indoor address though position of indoor unit is known

- In a case of individual operation (Wired remote controller : Indoor unit = 1 : 1) or group control

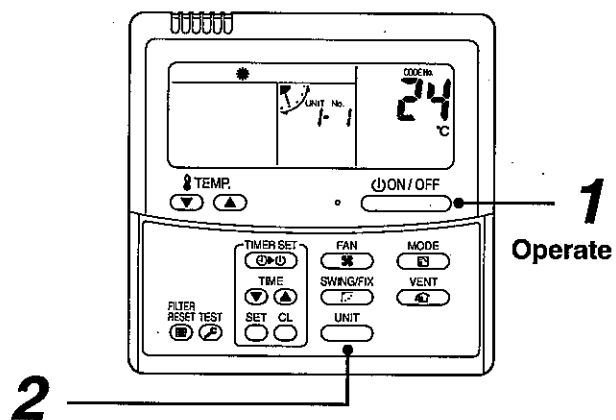
<Procedure> (Execute during operation)

**1** When the unit stops, push **ON/OFF** button.

**2** Push **UNIT** button.

The unit No. (Ex. 1-1) is displayed on LCD. (Disappears after several seconds) The displayed unit No. represents the line address and indoor address.

(If there is other indoor unit connected to the identical remote controller, (Group control unit) displays other unit No. every pushing **UNIT** button.)



Operation procedure  
1 → 2

2. To recognize the indoor unit position from address

- In case of check the unit No. in group control

<Procedure> (Execute during operation)

Indoor unit No. in the group control is displayed in order and fan and flap of the corresponding indoor unit are on.

**1** Push **VENT** + **TEST** buttons simultaneously for 4 seconds or more.

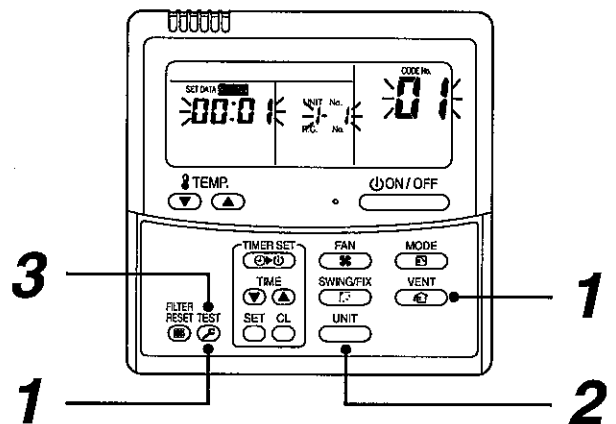
- UNIT No. *ALL* is displayed.
- Fans and flaps of all the indoor units in the group control are on.

**2** Every pushing **UNIT** button, Unit No. in the group control is displayed in order.

- The firstly displayed unit No is address of the header unit.
- Fan and flap of the selected indoor unit only are on.

**3** Push **TEST** button to finish the check.

Indoor units in the group control fully stop.



Operation procedure  
1 → 2 → 3 End

- In case of confirmation of all the unit Nos. from the arbitrary wired remote controller

<Procedure> (Execute during operation)

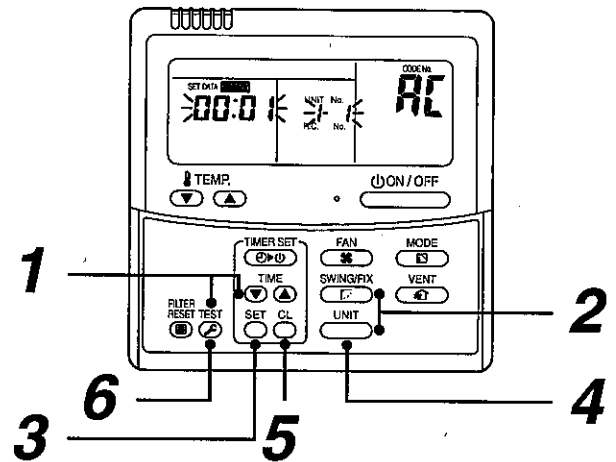
The indoor unit No. and position in the identical refrigerant piping can be confirmed.

An outdoor unit is selected, indoor unit No. in the identical refrigerant line is displayed in order, and then fan and flap of the corresponding indoor unit are on.

- 1 Push timer time  $\nabla$  +  $\text{TEST}$  buttons simultaneously for 4 seconds or more.  
First, line 1, and then ITEM CODE *AC* (Address Change) are displayed. (Select outdoor unit.)
- 2 Using  $\text{UNIT}$  /  $\text{SWING/FIX}$  buttons, select the line address.
- 3 Using  $\text{SET}$  button, determine the selected line address.
  - The indoor unit addresses connected to the refrigerant line of the selected outdoor unit are displayed and fans and flaps are on.
- 4 Every pushing  $\text{UNIT}$  button, the indoor unit No in the identical piping is displayed in order.
  - The fan and flap of the selected indoor unit only start to drive.

“To select the other line address”

- 5 Push  $\text{CL}$  button to return Procedure 2.
  - The indoor addresses in other line can be checked successively.
- 6 Push  $\text{TEST}$  button to finish the check.



Operation procedure

1 → 2 → 3 → 4 → 5 → 6 End

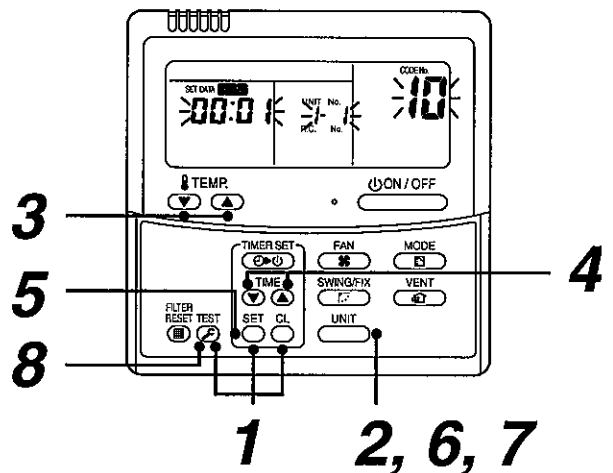
### Change of indoor address from remote controller

Change method of indoor address from wired remote controller

- How to change individual operation (Wired remote controller and Indoor unit is 1 : 1) or indoor address in the group control (Available when setup has finished by automatic address)

<Procedure> (Execute during operation stop)

- 1 Push  $\text{SET}$  +  $\text{CL}$  +  $\text{TEST}$  buttons simultaneously for 4 seconds or more.  
(In the group control, the firstly displayed unit No. is the header unit.)
- 2 In the group control, select the indoor unit No. to be changed using  $\text{UNIT}$  button.  
(Fan and flap of the selected indoor unit are on.)
- 3 Using temp. setup  $\nabla$  /  $\blacktriangle$  buttons, select ITEM CODE *13*.
- 4 Using timer time  $\nabla$  /  $\blacktriangle$  buttons, change the displayed setup data to data which you want to change.
- 5 Push  $\text{SET}$  button.
- 6 Using  $\text{UNIT}$  button, select the indoor unit No. which you want to change at the second time.  
Repeat procedure 4 to 6 and change the indoor addresses so that they are not duplicated.
- 7 After above change, push  $\text{UNIT}$  button and check the changed contents.
- 8 If change is OK, push  $\text{TEST}$  button to finish change operation.



Operation procedure

1 → 2 → 3 → 4 →  
5 → 6 → 7 → 8 End

- Change method of all indoor addresses from arbitrary wired remote controller  
(Available when setup has finished by automatic address)

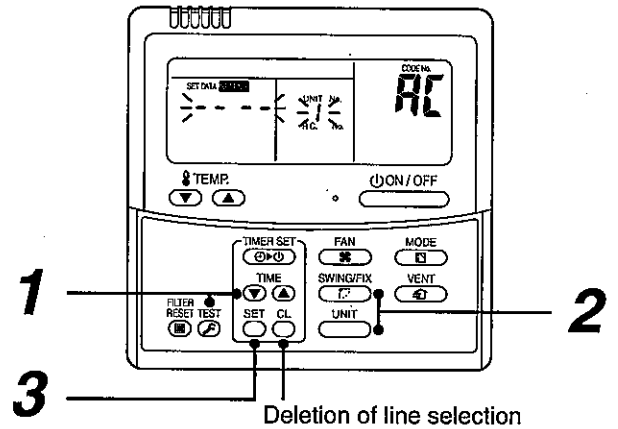
**Contents:**

Indoor unit address can be changed for each identical refrigerant line from arbitrary wired remote controller.

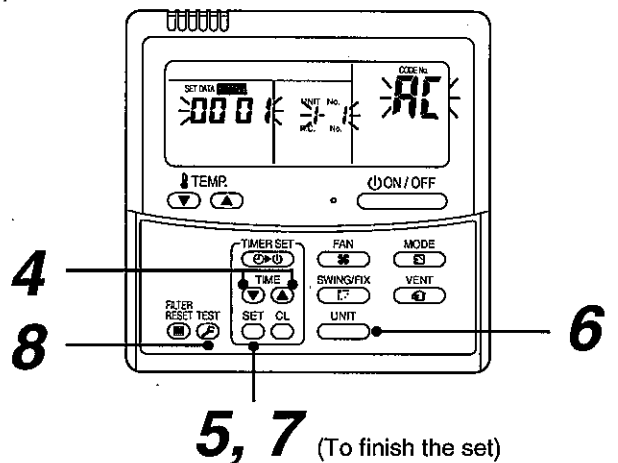
- \* Enter address check/change mode and change the address.

<Procedure> (Execute during operation stop)

- 1 Push timer time  $\downarrow$  +  $\text{TEST}$  buttons simultaneously for 4 seconds or more. First, line 1, and then ITEM CODE  $\text{AC}$  (Address Change) are displayed.
- 2 Using  $\text{UNIT}$  /  $\text{SWING/FIX}$  buttons, select the line address.
- 3 Push  $\text{SET}$  button.
  - The indoor unit address connected to the selected refrigerant line is displayed, and fan and flap are on. The current indoor address is firstly displayed on the setup data. (Line address is not displayed.)
- 4 The indoor address of the setup data is up and down with the timer time  $\downarrow$  /  $\uparrow$  buttons. Change the setup data to a new address.
- 5 Push  $\text{SET}$  button and then determine the setup data.
- 6 Every pushing  $\text{UNIT}$  button, the indoor unit No. in the identical line is displayed in order. Fan and flap of the indoor unit only are on. Repeat procedure 4 to 6 and change all the indoor addresses so that they are not duplicated.
- 7 Push  $\text{SET}$  button. (All the indications on LCD go on.)
- 8 Push  $\text{TEST}$  button to finish change operation.



Here, if the unit No. is not called out, the outdoor unit in the corresponding line does not exist. Push  $\text{CL}$  and select a line again with procedure 2.



**Operation procedure**

- 1 → 2 → 3 → 4 →  
5 → 6 → 7 → 8 End

# TOSHIBA

OPERATING MANUAL  
(FRANCAIS)  
(DEUTSCH)  
(ITALIANO)  
(ESPAÑOL)  
(PORTUGUÊS)  
(NEDERLANDS)  
(ΕΛΛΗΝΙΚΑ)  
(中文)

## STANDARD REMOTE CONTROLLER

# RBC-AMT31E

For commercial use  
Pour usage commercial  
Nur für gewerbliche Nutzung  
Per uso commerciale  
Para uso comercial  
Para uso comercial  
Voor commercieel gebruik  
Για εμπορική χρήση  
商用

## Object Indoor Unit

### Digital Inverter Air Conditioner

<4-way Air Discharge Cassette Type>

**RAV-SM560UT-E, SM800UT-E, SM1100UT-E, SM1400UT-E**

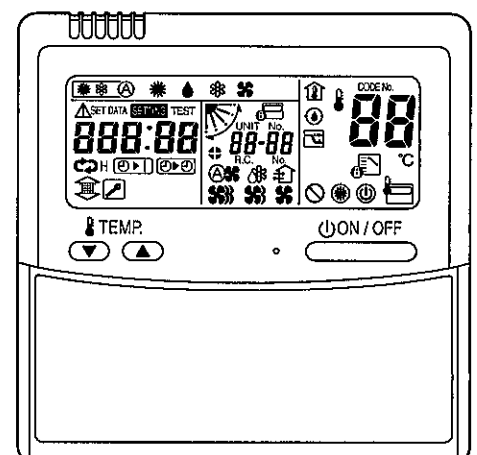
**RAV-SP1101UT-E** (Super Digital Inverter)

<Under Ceiling Type>

**RAV-SM561CT-E, SM801CT-E, SM1101CT-E, SM1401CT-E**

<Concealed Duct High Static Pressure Type>

**RAV-SM561BT-E, SM801BT-E, SM1101BT-E, SM1401BT-E**



## ADOPTION OF NEW REFRIGERANT

This Air Conditioner is a new type which adopts a new refrigerant HFC (R410A) instead of the conventional refrigerant R22 in order to prevent destruction of the ozone layer.

## CAUTION

- Before using the remote controller (RBC-AMT31E), please read this Operating Manual.
- For installation except operation of the remote controller, refer to the Installation Manual attached to the air conditioner unit.
- To use this remote controller safely and correctly, read this Operating Manual thoroughly before use for full understanding.
- After you read this manual, be sure to keep it so that one who uses the remote controller can read this manual anytime. If another person uses the remote controller, necessarily hand the Manual to him or her.

## PRUDENCE

- Avant d'utiliser la télécommande (RBC-AMT31E), veuillez lire ce Mode d'emploi.
- Consultez le Manuel d'installation du climatiseur uniquement pour installer la télécommande, pas pour la faire fonctionner.
- Pour utiliser cette télécommande de façon correcte et sûre, lisez attentivement ce Mode d'emploi en entier afin de bien le comprendre.
- Lorsque vous avez fini de lire ce Mode d'emploi, rangez-le soigneusement pour pouvoir le consulter par la suite.  
Si une autre personne doit utiliser la télécommande, remettez-lui ce Mode d'emploi.

## VORSICHT

- Lesen Sie diese Bedienungsanleitung, bevor Sie die Fernbedienung (RBC-AMT31E) benutzen.
- Einzelheiten zur Installation der Fernbedienung finden Sie in dem dem Klimagerät beiliegenden Installationshandbuch.
- Lesen Sie das Handbuch sorgfältig, so dass Sie den Inhalt verstehen, um die Fernbedienung sicher und korrekt zu bedienen.
- Bewahren Sie das Handbuch nach dem Lesen so auf, dass jeder, der die Fernbedienung benutzen will, Zugriff auf das Handbuch hat. Will eine andere Person die Fernbedienung benutzen, händigen Sie ihr das Handbuch aus.

## AVVERTENZA

- Prima di utilizzare il telecomando (RBC-AMT31E), leggere questo manuale di funzionamento.
- Per l'installazione eccetto il funzionamento del telecomando, fare riferimento al manuale di installazione fornito con il condizionatore d'aria.
- Per utilizzare questo telecomando correttamente e in condizioni di sicurezza, prima dell'uso leggere completamente questo Manuale di funzionamento per comprenderlo bene.
- Dopo aver letto questo manuale, conservarlo in modo che ci deve usare il telecomando possa leggerlo.  
Se un'altra persona deve usare il telecomando, bisogna passarle il Manuale da leggere.

## PRECAUCIÓN

- Lea este Manual del uso antes de utilizar el mando a distancia (RBC-AMT31E).
- Para conocer más detalles sólo acerca de la instalación del mando a distancia, consulte el Manual de instalación que se adjunta con el aparato de aire acondicionado.
- Para utilizar este mando a distancia de manera correcta y segura, lea con atención este Manual de uso antes de utilizarlo para asegurarse de que entienda totalmente su funcionamiento.
- Después de leer este manual, asegúrese de guardarlo, de modo que cualquier persona que utilice el mando a distancia pueda leerlo en cualquier momento. Si otra persona utiliza el mando a distancia, entréguele este Manual.

## CUIDADO

- Antes de utilizar o controlador remoto (RBC-AMT31E), leia o presente Manual de Funcionamento.
- Para pormenores acerca da instalação, excluindo o funcionamento, do controlador remoto, consulte o Manual de Instalação fornecido com o aparelho de ar condicionado.
- Para utilizar este controlador remoto em segurança e correctamente, leia atentamente o presente Manual de Funcionamento antes da sua utilização para um entendimento exaustivo.
- Depois da leitura do presente manual, guarde-o para que quem utilizar o controlador remoto o possa ler em qualquer altura.  
Se outra pessoa utilizar o controlador remoto, faculte-lhe o Manual.

## LET OP

- Lees, voordat u de afstandsbediening (RBC-AMT31E) gaat gebruiken, deze bedieningshandleiding.
- Meer informatie over het installeren, behalve de installatie van de afstandsbediening, vindt u in de installatiehandleiding bij de airconditionerunit.
- Lees voor een veilig en correct gebruik van deze afstandsbediening deze bedieningshandleiding aandachtig door.
- Bewaar deze handleiding, zodat u deze in de toekomst zonodig nogmaals kunt nalezen.  
Overhandig de handleiding, als iemand anders de afstandsbediening gebruikt, aan deze persoon.

## ΠΡΟΣΟΧΗ

- Πριν χρησιμοποιήσετε το τηλεχειριστήριο (RBC-AMT31E), παρακαλούμε διαβάστε αυτό το Εγχειρίδιο Λειτουργίας.
- Για την εγκατάσταση, εκτός από τη λειτουργία του τηλεχειριστηρίου, δείτε το Εγχειρίδιο Εγκατάστασης που είναι προσαρτημένο στη μονάδα κλιματισμού.
- Για να χρησιμοποιήσετε αυτό το τηλεχειριστήριο με ασφαλή τρόπο και σωστά, διαβάστε προσεκτικά αυτό το Εγχειρίδιο Εγκατάστασης ώστε να κατανοήσετε καλά τη λειτουργία του.
- Αφού διαβάσετε αυτό το εγχειρίδιο, φυλάξτε το, ώστε να μπορεί ανά πάσα στιγμή να το διαβάσει κάποιος που θα χρησιμοποιήσει το τηλεχειριστήριο.  
Αν ένα άλλο άτομο χρησιμοποιήσει το τηλεχειριστήριο, δώστε του αυτό το Εγχειρίδιο.

## 注意事项

- 在使用遥控器 (RBC-AMT31E) 之前, 请阅读本操作手册。
- 对于除遥控器操作之外的安装, 请参见空调机的随机安装手册。
- 为了安全和正确地使用本遥控器, 请在使用之前完全阅读并理解本操作手册。
- 阅读本手册之后请保存好, 以便本遥控器的用户可以随时阅读。  
如果其他人使用本遥控器, 则要将本手册移交给他 (她)。

## CONTENTS

<b>1</b> SAFETY CAUTION.....	1	<b>5</b> APPLICABLE CONTROLS .....	5
<b>2</b> ELECTRIC WORK .....	1	<b>6</b> APPLICABLE CONTROL .....	6
<b>3</b> PARTS NAME OF REMOTE CONTROLLER .....	2	<b>7</b> TEST RUN .....	11
<b>4</b> CORRECT USAGE.....	4	<b>8</b> TROUBLESHOOTING.....	13

## SOMMAIRE

<b>1</b> MESURES DE SECURITE .....	14	<b>5</b> COMMANDES UTILISABLES .....	18
<b>2</b> TRAVAUX D'ÉLECTRICITÉ .....	14	<b>6</b> COMMANDES UTILISABLES .....	19
<b>3</b> NOM DES PIÈCES DE LA TELECOMMANDE .....	15	<b>7</b> ESSAI DE FONCTIONNEMENT .....	24
<b>4</b> UTILISATION CORRECTE .....	17	<b>8</b> DÉPANNAGE .....	26

## INHALT

<b>1</b> SICHERHEITSHINWEISE .....	27	<b>5</b> STEUERUNGSMÖGLICHKEITEN .....	31
<b>2</b> ELEKTROARBEITEN.....	27	<b>6</b> STEUERUNGSMÖGLICHKEITEN .....	32
<b>3</b> TEILEBEZEICHNUNG DER FERNBEDIENUNG.....	28	<b>7</b> TESTLAUF .....	37
<b>4</b> RICHTIGE HANDHABUNG .....	30	<b>8</b> FEHLERSUCHE .....	39

## INDICE

<b>1</b> PRECAUZIONI DI SICUREZZA .....	40	<b>5</b> COMANDI APPLICABILI .....	44
<b>2</b> COLLEGAMENTI ELETTRICI .....	40	<b>6</b> COMANDI APPLICABILI .....	45
<b>3</b> NOME DELLE PARTI DEL TELECOMANDO .....	41	<b>7</b> FUNZIONAMENTO DI PROVA .....	50
<b>4</b> USO CORRETTO .....	43	<b>8</b> RISOLUZIONE DEI PROBLEMI .....	52

## CONTENIDO

<b>1</b> PRECAUCIONES DE SEGURIDAD .....	53	<b>5</b> CONTROLES APLICABLES .....	57
<b>2</b> INSTALACIÓN ELÉCTRICA .....	53	<b>6</b> ELEMENTOS CONTROLABLES .....	58
<b>3</b> DESCRIPCIÓN DE LOS BOTONES DEL CONTROL REMOTO .....	54	<b>7</b> PRUEBA DE FUNCIONAMIENTO .....	63
<b>4</b> UTILIZACIÓN CORRECTA .....	56	<b>8</b> RESOLUCIÓN DE PROBLEMAS .....	65

## ÍNDICE

<b>1</b> PRECAUÇÃO DE SEGURANÇA .....	66	<b>5</b> CONTROLOS APLICÁVEIS .....	70
<b>2</b> TRABALHOS DE ELECTRICIDADE .....	66	<b>6</b> CONTROLO APLICÁVEL .....	71
<b>3</b> NOME DAS PEÇAS DO CONTROLADOR REMOTO .....	67	<b>7</b> TESTE DE FUNCIONAMENTO .....	76
<b>4</b> UTILIZAÇÃO CORRECTA .....	69	<b>8</b> RESOLUÇÃO DE PROBLEMAS .....	78

## INHOUD

<b>1</b> AANDACHTSPUNTEN VOOR UW VEILIGHEID .....	79	<b>5</b> BEDIENINGSELEMENTEN .....	83
<b>2</b> ELEKTRISCHE BEDRADING .....	79	<b>6</b> BEDIENINGSELEMENT .....	84
<b>3</b> BENAMING VAN DE ONDERDELEN VAN DE AFSTANDBEDIENING .....	80	<b>7</b> WERKINGSTEST .....	89
<b>4</b> CORRECT GEBRUIK .....	82	<b>8</b> STORINGEN VERHELPEN .....	91

## ΠΕΡΙΕΧΟΜΕΝΑ

<b>1</b> ΠΡΟΦΥΛΑΞΕΙΣ ΓΙΑ ΤΗΝ ΑΣΦΑΛΕΙΑ .....	92	<b>5</b> ΕΦΑΡΜΟΣΙΜΟΙ ΕΛΕΓΧΟΙ .....	96
<b>2</b> ΗΛΕΚΤΡΙΚΗ ΕΡΓΑΣΙΑ .....	92	<b>6</b> ΣΧΕΤΙΚΑ ΧΕΙΡΙΣΤΗΡΙΑ .....	97
<b>3</b> ΟΝΟΜΑΣΙΑ ΤΜΗΜΑΤΩΝ ΤΟΥ ΤΗΛΕΧΕΙΡΙΣΤΗΡΙΟΥ .....	93	<b>7</b> ΔΟΚΙΜΗ ΛΕΙΤΟΥΡΓΙΑΣ .....	102
<b>4</b> ΟΡΘΗ ΧΡΗΣΗ .....	95	<b>8</b> ΑΝΤΙΜΕΤΩΠΙΣΗ ΠΡΟΒΛΗΜΑΤΩΝ .....	104

## 目 录

<b>1</b> 安全注意事项 .....	105	<b>5</b> 适用控制 .....	109
<b>2</b> 电气工程 .....	105	<b>6</b> 应用控制 .....	110
<b>3</b> 遥控器部件的名称 .....	106	<b>7</b> 试运转 .....	115
<b>4</b> 正确的使用方法 .....	108	<b>8</b> 故障处理 .....	117

# 1 SAFETY CAUTION

- Please read this “Safety Cautions” thoroughly before installation to install the air conditioner correctly.
- The important contents concerned to the safety are described in the “Safety Cautions”. Be sure to keep them. For indications and their meanings, see the following description.

## ■ Explanation of indications

### ⚠ WARNING

Indicates possibilities that a death or serious injury of personnel is caused by an incorrect handling.

### ⚠ CAUTION

Indicates contents that an injury (\*1) or property damage (\*2) only may be caused when an incorrect work has been executed.

\*1 : “Injury” means a hurt, a burn, or an electric shock which does not require hospitalization or a long-term going to the hospital.

\*2 : “Property damage” means an enlarged damage concerned to property, or breakage of materials.

- **Make sure to ask the qualified installation professional in electric work to install the air conditioner.**

If the air conditioner is inappropriate installed by yourself, it may cause water leak, electric shock, fire, and so on.

- **A person qualified for the electric work should deal with the electric construction conforming to the regulations of the local electric company and the Installation Manual.**

- **For wiring, use the specified wires and connect them securely so that external force of wire does not transmit to the terminal connecting section.**

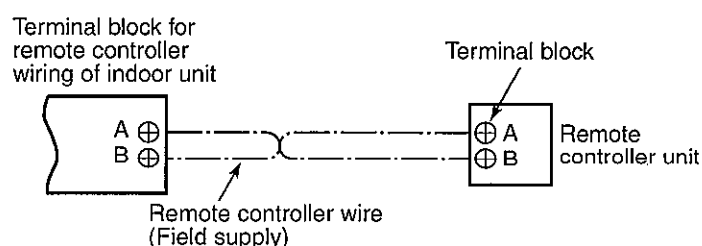
If connection or fixing is incomplete, a fire, etc may be caused.

# 2 ELECTRIC WORK

## Remote controller wiring

- As the remote controller wire has no polarity, there is no problem if connections to indoor unit terminal blocks A and B are reversed.

### <Wiring diagram>

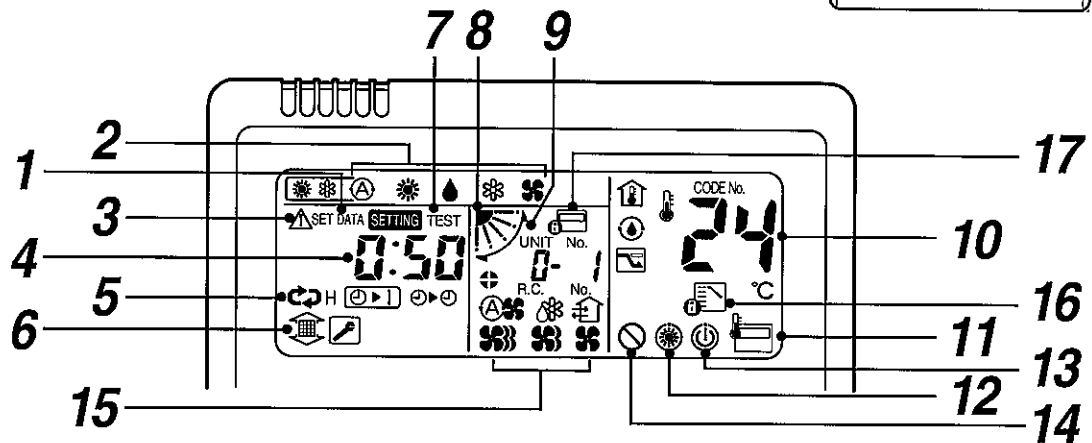
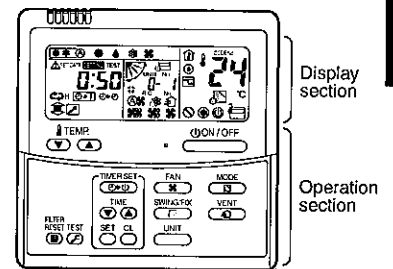


# 3 PARTS NAME OF REMOTE CONTROLLER

## Display section

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

- When turning on the leak breaker at the first time, [SET DATA] 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 [SET DATA] display has disappeared, and then use the remote controller.



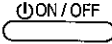
- 1 SET DATA display**  
Displayed during setup of the timer.
- 2 Operation mode select display**  
The selected operation mode is displayed.
- 3 CHECK display**  
Displayed while the protective device works or a trouble occurs.
- 4 Timer time display**  
Time of the timer is displayed.  
(When a trouble occurs, the check code is displayed.)
- 5 Timer SETIN setup display**  
When pushing the Timer SETIN button, the display of the timer is selected in order of [OFF] [ON] → [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 Flap position display (for 4-Way Air Discharge Cassette Type and Under Ceiling Type model only)**  
Displays flap position.
- 9 SWING display**  
Displayed during up/down movement of the flap.
- 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 (for 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 Operation ready display**  
Displayed when cooling or heating operation is impossible because the outdoor temperature goes out of the operable range.
- 14 No function display**  
Displayed if there is no function even if the button is pushed.
- 15 Air volume select display**  
The selected air volume mode is displayed.  
(AUTO) (HIGH) (MED.) (LOW)
- 16 Mode select control display**  
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.
- 17 Central control display**  
Displayed when using the remote controller together with the central control remote controller, etc.  
If Remote controller is prohibited at the central control side, flashes when operating  
[ON/OFF], [MODE], [DOWN], [UP] buttons and the change is not accepted.  
(The contents available to be set up on the remote controller differ according to the central control mode. For details, refer to Owner's Manual of the central control remote controller.)

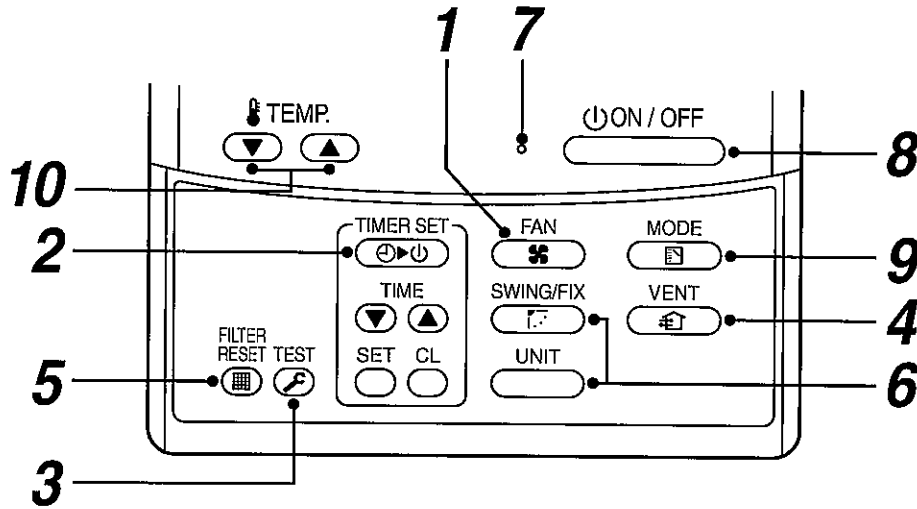
# 3 PARTS NAME OF REMOTE CONTROLLE

## Operation section

Push each button to select a desired operation.

This remote controller can operate the maximum 8 indoor units.

- The details of the operation needs to be set up once, afterward, the air conditioner can be used by pushing  button only.



### 1 Air volume select button

Selects the desired air volume mode.  
The Concealed Duct High Static Pressure type models cannot be operated.


### 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 Fan button


FAN button is used when a fan which is sold on the market or etc. is connected.  
• If  is displayed on the remote controller when pushing the FAN button, a fan is not connected.

### 5 Filter reset button

Resets (Erases) "FILTER 

### 6 Wind direction and Swing

 :  
If the multiple indoor units are operated by only one remote controller, select the units when the air direction is adjusted.

 :  
Set up the auto swing and angle of the flap.

- 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.

### 7 Operation lamp

Lamp is lit during the operation. Lamp is off when stopped.  
Although it flashes when operating the protection device or abnormal time.



### 8 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.

### 9 Operation select button

Selects desired operation mode.

### 10 Set up temperature button

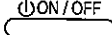
Adjusts the room temperature.  
Set the desired set temperature by pushing  or .

### 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.

# 4 CORRECT USAGE

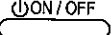
When you use the air conditioner for the first time or when you change the SET DATA value, follow the procedure below. From the next time, the operation displayed on the remote controller will start by pushing the  button only.

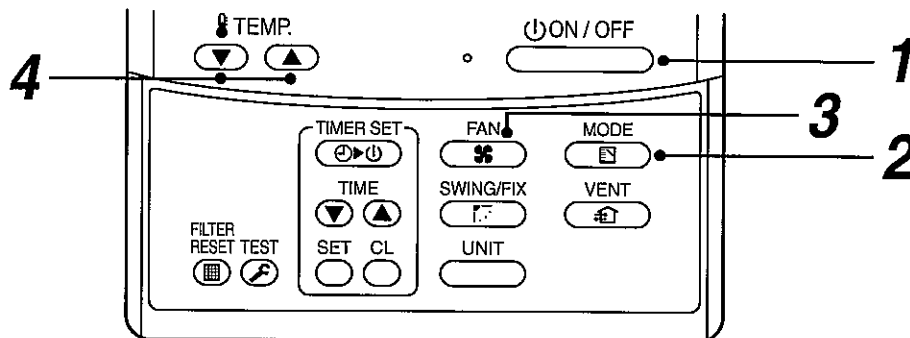
## Preparation

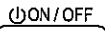
Turn on the main power switch and/or the leakage breaker.

- When the power supply is turned on, a partition line is displayed on the display part of the remote controller.
- \* After the power supply is turned on, the remote controller does not accept an operation for approx. 1 minute, but it is not a failure.

### REQUIREMENT

- While using the air conditioner, operate it only with  button without turning off the main power switch and the leak breaker.
- Do not turn off the leak breaker while the air conditioner is used.
- Turn on the leak breaker 12 hours or more before start of operation after the air conditioner has stopped for a long time.



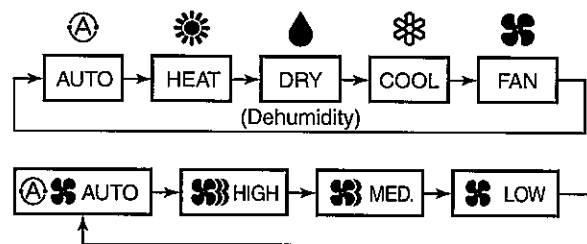
**1** Push  button.

The operation lamp goes on, and the operation starts.

**2** Select an operation mode with the  button.








One push of the button, and the display changes in the order shown on the right.

- “DRY  mode” function is not provided to Concealed Duct High Static Pressure Type.



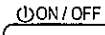
**3** Select air volume with  button.

One push of the button, and the display changes in the order shown on the right.

- When air volume is “AUTO ”, air volume differs according to the room temperature.
- In DRY  mode, “AUTO ” is displayed and the air volume is LOW.
- In heating operation, if the room temperature is not heated sufficiently with volume “LOW ” operation, select “MED. ” or “HIGH ” operation.
- The temperature which the temperature sensor detects is one near the air inlet of the indoor unit. Therefore it slightly differs from the room temperature according to the installation status. The setup value is a criterion of the room temperature. (Automatic air speed cannot be selected in FAN mode.)
- Air volume of function is not provided to “Concealed Duct High Static Pressure Type” but air speed “HIGH ” only is displayed.

**4** Determine the set up temperature by pushing the “TEMP. ” or “TEMP. ” button.


## Stop

Push  button.

The operation lamp goes off, and the operation stops.



# 6 APPLICABLE CONTROL

Item	Contents	Item code	Setup data																
1. Change of lighting time of filter sign	Time when the filter sign (Notification of filter cleaning) goes on can be changed according to installation conditions.	01	<table border="1"> <thead> <tr> <th>Setup data</th> <th>0000</th> <th>0001</th> <th>0002</th> <th>0003</th> <th>0004</th> </tr> </thead> <tbody> <tr> <td>Lighting time of filter sign</td> <td>None</td> <td>150H</td> <td>2500H (At shipment)</td> <td>5000H</td> <td>10000H</td> </tr> </tbody> </table> <p>* The setup data of the High wall, Floor, or Kitchen of Under-ceiling type is 0001 at shipment.</p>	Setup data	0000	0001	0002	0003	0004	Lighting time of filter sign	None	150H	2500H (At shipment)	5000H	10000H				
Setup data	0000	0001	0002	0003	0004														
Lighting time of filter sign	None	150H	2500H (At shipment)	5000H	10000H														
2. To increase heating effect	If it is difficult to increase heating effect due to installation place of indoor unit or structure of room, the detection temperature of heating can be raised. Besides circulate the hot air near the ceiling by using a circulator, etc.	06	<table border="1"> <thead> <tr> <th>Setup data</th> <th>0000</th> <th>0001</th> <th>0002</th> <th>0003</th> <th>0004</th> <th>0005</th> <th>0006</th> </tr> </thead> <tbody> <tr> <td>Shift value of detection temp.</td> <td>No shift</td> <td>+1°C</td> <td>+2°C (At shipment)</td> <td>+3°C</td> <td>+4°C</td> <td>+5°C</td> <td>+6°C</td> </tr> </tbody> </table> <p>* The setup data of Floor type is 0000 at shipment.</p>	Setup data	0000	0001	0002	0003	0004	0005	0006	Shift value of detection temp.	No shift	+1°C	+2°C (At shipment)	+3°C	+4°C	+5°C	+6°C
Setup data	0000	0001	0002	0003	0004	0005	0006												
Shift value of detection temp.	No shift	+1°C	+2°C (At shipment)	+3°C	+4°C	+5°C	+6°C												
3. Selection of cooling only	Set up this item when connecting the simultaneous twin/simultaneous triple system to the cooling only outdoor unit.	0F	<table border="1"> <thead> <tr> <th>Setup data</th> <th>0000</th> <th>0001</th> </tr> </thead> <tbody> <tr> <td>Cooling only select</td> <td>Cool/Heat (At shipment)</td> <td>Cooling only (No heating/auto)</td> </tr> </tbody> </table>	Setup data	0000	0001	Cooling only select	Cool/Heat (At shipment)	Cooling only (No heating/auto)										
Setup data	0000	0001																	
Cooling only select	Cool/Heat (At shipment)	Cooling only (No heating/auto)																	
4. Ventilation fan	Set up this item when a ventilation fan is connected.	31	<table border="1"> <thead> <tr> <th>Setup data</th> <th>0000</th> <th>0001</th> </tr> </thead> <tbody> <tr> <td>Fan</td> <td>None (At shipment)</td> <td>Provided</td> </tr> </tbody> </table>	Setup data	0000	0001	Fan	None (At shipment)	Provided										
Setup data	0000	0001																	
Fan	None (At shipment)	Provided																	
5. Remote controller sensor	Set up this item to sense the temperature near the remote controller though usually the temp. sensor of the indoor unit senses room temp.	32	<table border="1"> <thead> <tr> <th>Setup data</th> <th>0000</th> <th>0001</th> </tr> </thead> <tbody> <tr> <td>Remote controller sensor</td> <td>Unused (At shipment)</td> <td>Used</td> </tr> </tbody> </table> <p>If  flashes, the remote controller sensor is defective. Stop to use the remote controller sensor (Setup data: 0000) or exchange the remote controller.</p>	Setup data	0000	0001	Remote controller sensor	Unused (At shipment)	Used										
Setup data	0000	0001																	
Remote controller sensor	Unused (At shipment)	Used																	
6. Air sheltering	<p>■ <b>Air Discharge Cassette type (4-way discharge type)</b></p> <p>To mount the air shelter kit sold separately, be sure to change the setup.</p>	88	<table border="1"> <thead> <tr> <th>Setup data</th> <th>0000</th> <th>0065</th> </tr> </thead> <tbody> <tr> <td>Air sheltering</td> <td>Not mounted (At shipment)</td> <td>Mounted</td> </tr> </tbody> </table>	Setup data	0000	0065	Air sheltering	Not mounted (At shipment)	Mounted										
Setup data	0000	0065																	
Air sheltering	Not mounted (At shipment)	Mounted																	

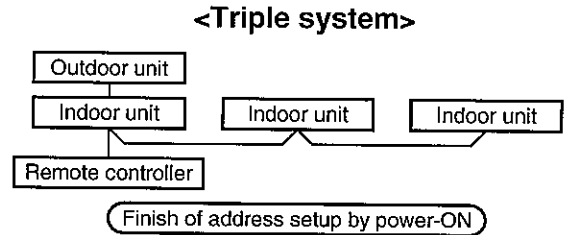
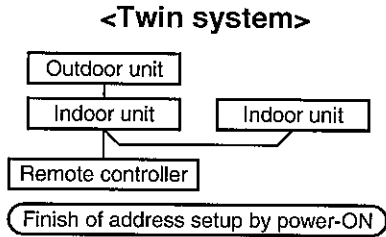
# 6 APPLICABLE CONTROL

Item	Contents	Item code	Setup data																																																													
7. Filter sold separately (High ceiling setup, external static pressure setup)	<p>■ <b>Air Discharge Cassette type (4-way discharge type)</b></p> <p>Be sure to set up high ceiling when mounting filter sold separately.</p>	5d	<table border="1"> <thead> <tr> <th>Setup data</th> <th>0000</th> <th>0001</th> </tr> </thead> <tbody> <tr> <td>Filter sold separately</td> <td>Standard filter (At shipment)</td> <td>Super long life filter</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Setup data</th> <th>0003</th> <th>0006</th> </tr> </thead> <tbody> <tr> <td>Filter sold separately</td> <td>High-efficiency filter (65%) High-efficiency filter (90%)</td> <td></td> </tr> </tbody> </table>	Setup data	0000	0001	Filter sold separately	Standard filter (At shipment)	Super long life filter	Setup data	0003	0006	Filter sold separately	High-efficiency filter (65%) High-efficiency filter (90%)																																																		
	Setup data	0000	0001																																																													
	Filter sold separately	Standard filter (At shipment)	Super long life filter																																																													
	Setup data	0003	0006																																																													
	Filter sold separately	High-efficiency filter (65%) High-efficiency filter (90%)																																																														
<p>■ <b>Air Discharge Cassette type (4-way discharge type)</b></p> <p>If height of the ceiling to be installed exceeds the standard height, adjustment of the air volume is necessary. Set up the high ceiling.</p>	5d	<p><b>Installable ceiling height list</b> (Unit: m)</p> <table border="1"> <thead> <tr> <th rowspan="2">Model</th> <th colspan="3">RAV-SM560</th> <th colspan="3">RAV-SM800</th> <th rowspan="2">Setup data</th> </tr> <tr> <th>4-ways</th> <th>3-ways</th> <th>2-ways</th> <th>4-ways</th> <th>3-ways</th> <th>2-ways</th> </tr> </thead> <tbody> <tr> <td>Standard (At shipment)</td> <td>2.8</td> <td>3.2</td> <td>3.5</td> <td>3.0</td> <td>3.3</td> <td>3.6</td> <td>0000</td> </tr> <tr> <td>High ceiling ①</td> <td>3.2</td> <td>3.5</td> <td>3.8</td> <td>3.3</td> <td>3.5</td> <td>3.8</td> <td>0001</td> </tr> <tr> <td>High ceiling ③</td> <td>3.5</td> <td>3.8</td> <td>—</td> <td>3.6</td> <td>3.8</td> <td>—</td> <td>0003</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Model</th> <th colspan="3">RAV-SM1100, SM1400, SP1101</th> <th rowspan="2">Setup data</th> </tr> <tr> <th>Discharge direction</th> <th>4-ways</th> <th>3-ways</th> <th>2-ways</th> </tr> </thead> <tbody> <tr> <td>Standard (At shipment)</td> <td>3.6</td> <td>3.9</td> <td>4.2</td> <td>0000</td> </tr> <tr> <td>High ceiling ①</td> <td>3.9</td> <td>4.1</td> <td>4.3</td> <td>0001</td> </tr> <tr> <td>High ceiling ③</td> <td>4.2</td> <td>4.3</td> <td>—</td> <td>0003</td> </tr> </tbody> </table>	Model	RAV-SM560			RAV-SM800			Setup data	4-ways	3-ways	2-ways	4-ways	3-ways	2-ways	Standard (At shipment)	2.8	3.2	3.5	3.0	3.3	3.6	0000	High ceiling ①	3.2	3.5	3.8	3.3	3.5	3.8	0001	High ceiling ③	3.5	3.8	—	3.6	3.8	—	0003	Model	RAV-SM1100, SM1400, SP1101			Setup data	Discharge direction	4-ways	3-ways	2-ways	Standard (At shipment)	3.6	3.9	4.2	0000	High ceiling ①	3.9	4.1	4.3	0001	High ceiling ③	4.2	4.3	—	0003
Model	RAV-SM560			RAV-SM800			Setup data																																																									
	4-ways	3-ways	2-ways	4-ways	3-ways	2-ways																																																										
Standard (At shipment)	2.8	3.2	3.5	3.0	3.3	3.6	0000																																																									
High ceiling ①	3.2	3.5	3.8	3.3	3.5	3.8	0001																																																									
High ceiling ③	3.5	3.8	—	3.6	3.8	—	0003																																																									
Model	RAV-SM1100, SM1400, SP1101			Setup data																																																												
Discharge direction	4-ways	3-ways	2-ways																																																													
Standard (At shipment)	3.6	3.9	4.2	0000																																																												
High ceiling ①	3.9	4.1	4.3	0001																																																												
High ceiling ③	4.2	4.3	—	0003																																																												
<p>■ <b>Concealed Duct Standard type</b></p> <p>Be sure to change the setup data matching with filter type when mounting filter sold separately.</p>	5d	<table border="1"> <thead> <tr> <th>Setup data</th> <th>0000</th> <th>0001</th> </tr> </thead> <tbody> <tr> <td>Filter sold separately</td> <td>Standard filter (At shipment)</td> <td>High-efficiency filter (65%) High-efficiency filter (90%)</td> </tr> </tbody> </table>	Setup data	0000	0001	Filter sold separately	Standard filter (At shipment)	High-efficiency filter (65%) High-efficiency filter (90%)																																																								
Setup data	0000	0001																																																														
Filter sold separately	Standard filter (At shipment)	High-efficiency filter (65%) High-efficiency filter (90%)																																																														
<p>■ <b>Concealed Duct Standard type</b></p> <p>Be sure to change the setup data matching with resistance (External static pressure) of duct to be connected.</p>	5d	<table border="1"> <thead> <tr> <th>Setup data</th> <th>0000</th> <th>0001</th> <th>0003</th> <th>0006</th> </tr> </thead> <tbody> <tr> <td rowspan="2">External static pressure</td> <td>40 Pa</td> <td>70 Pa *1</td> <td>100 Pa *2</td> <td>20 Pa</td> </tr> <tr> <td>Standard (At shipment)</td> <td>High static pressure 1</td> <td>High static pressure 2</td> <td>Low static pressure</td> </tr> </tbody> </table> <p>*1: SM1400 type becomes 65Pa. *2: SM1400 type becomes 90Pa.</p>	Setup data	0000	0001	0003	0006	External static pressure	40 Pa	70 Pa *1	100 Pa *2	20 Pa	Standard (At shipment)	High static pressure 1	High static pressure 2	Low static pressure																																																
Setup data	0000	0001	0003	0006																																																												
External static pressure	40 Pa	70 Pa *1	100 Pa *2	20 Pa																																																												
	Standard (At shipment)	High static pressure 1	High static pressure 2	Low static pressure																																																												
<p>■ <b>Under Ceiling type</b></p> <p>Be sure to set up high ceiling when mounting filter sold separately.</p>	5d	<table border="1"> <thead> <tr> <th>Setup data</th> <th>0000</th> <th>0001</th> </tr> </thead> <tbody> <tr> <td>Filter sold separately</td> <td>Standard filter (At shipment)</td> <td></td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Setup data</th> <th>0003</th> <th>0006</th> </tr> </thead> <tbody> <tr> <td>Filter sold separately</td> <td>High-efficiency filter (65%)</td> <td></td> </tr> </tbody> </table>	Setup data	0000	0001	Filter sold separately	Standard filter (At shipment)		Setup data	0003	0006	Filter sold separately	High-efficiency filter (65%)																																																			
Setup data	0000	0001																																																														
Filter sold separately	Standard filter (At shipment)																																																															
Setup data	0003	0006																																																														
Filter sold separately	High-efficiency filter (65%)																																																															
<p>■ <b>Under Ceiling type</b></p> <p>If height of the ceiling to be installed exceeds 3.5m, adjustment of the air volume is necessary. Set up the high ceiling.</p>	5d	<p><b>Installable ceiling height list</b></p> <table border="1"> <thead> <tr> <th>Model RAV-**CT-E</th> <th>SM560 to SM1400</th> <th>Setup data</th> </tr> </thead> <tbody> <tr> <td>Standard (At shipment)</td> <td>3.5 m or less</td> <td>0000</td> </tr> <tr> <td>High ceiling ①</td> <td>4.0 m or less</td> <td>0001</td> </tr> </tbody> </table>	Model RAV-**CT-E	SM560 to SM1400	Setup data	Standard (At shipment)	3.5 m or less	0000	High ceiling ①	4.0 m or less	0001																																																					
Model RAV-**CT-E	SM560 to SM1400	Setup data																																																														
Standard (At shipment)	3.5 m or less	0000																																																														
High ceiling ①	4.0 m or less	0001																																																														

## Group control

### Simultaneous twin/triple system

If combining with an outdoor unit, ON/OFF operation of two indoor units for the twin system, or ON/OFF operation of three indoor units for the triple system is simultaneously available respectively.



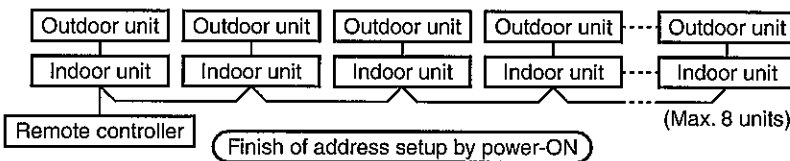
- For wiring procedure and wiring method, follow to the “Electric wiring”.
- When the power supply has been turned on, the automatic address setup starts and “” display which indicates that address is being set up flashes on the display part. During setup of automatic address, the remote controller operation is not accepted.

Required time up to the finish of automatic addressing is approx. 5 minutes.

### In case of group control for system of multiple units

One remote controller can control maximum 8 indoor units as a group.

#### <In case of group control in single system>



- For wiring procedure and wiring method of the individual line (Identical refrigerant line) system, follow to “Electric wiring”.
- Wiring between lines is performed in the following procedure.

Connect the terminal block (A/B) of the indoor unit connected with a remote controller to the terminal blocks (A/B) of the indoor units of other indoor units by wiring the inter-unit wire of the remote controller.

- When the power supply has been turned on, the automatic address setup starts and “” display which indicates that address is being set up flashes on the display part. During setup of automatic address, the remote controller operation is not accepted.

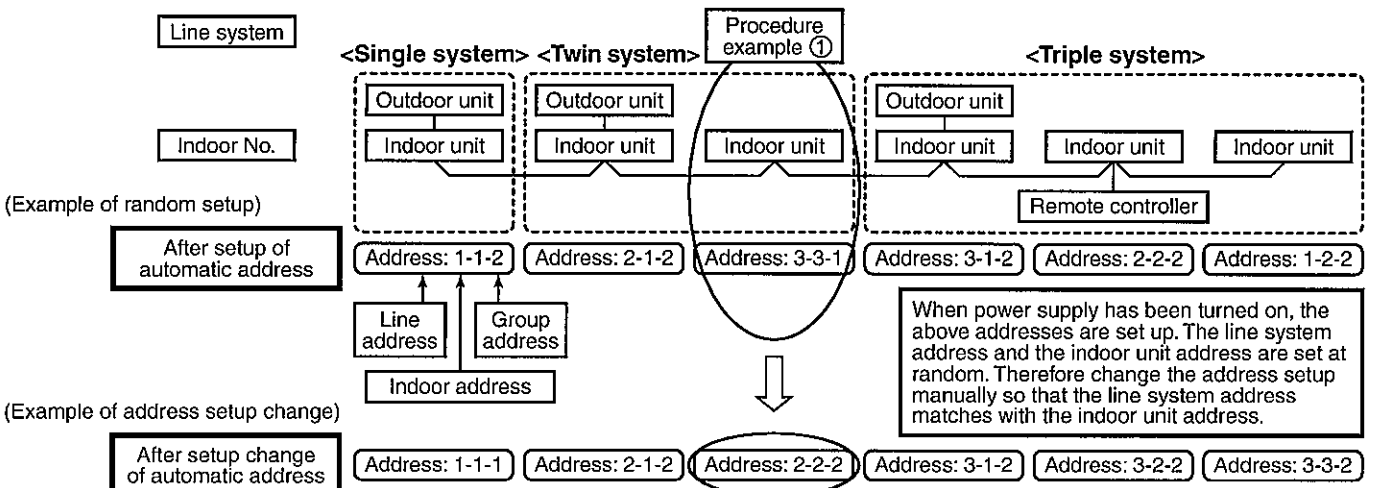
Required time up to the finish of automatic addressing is approx. 5 minutes.

### NOTE

In some cases, it is necessary to change the address manually after setup of the automatic address according to the system configuration of the group control.

- The above-mentioned system configuration is a case when complex systems in which systems of the multiple twin/triple units are controlled as a group by a remote controller.

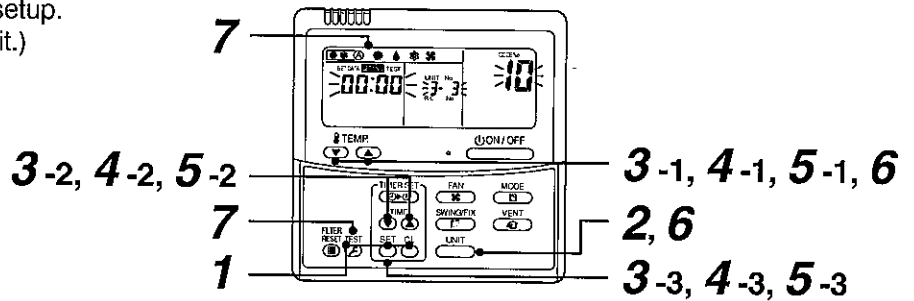
### (Example) Group control for complex system



# 6 APPLICABLE CONTROL

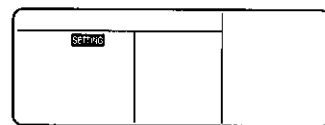
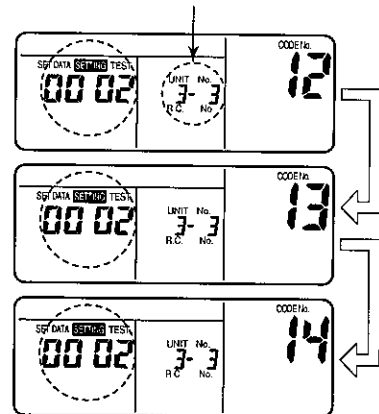
## Procedure example ① Manual address setup procedure

While the operation stops, change the setup.  
(Be sure to stop the operation of the unit.)



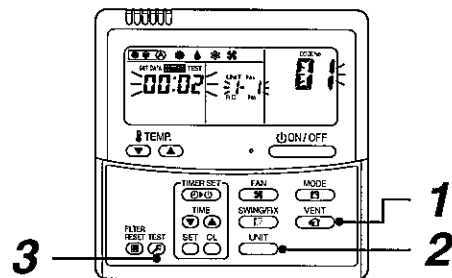
Procedure	Description
<b>1</b>	<p>Push simultaneously <b>TEST</b> + <b>SET</b> + <b>CL</b> buttons for 4 seconds or more. After a while, the display part flashes as shown below. Check the displayed ITEM CODE is [10].</p> <ul style="list-style-type: none"> <li>When the ITEM CODE is other than [10], push <b>TEST</b> button to erase the display and repeat procedure from the first step. (After pushing <b>TEST</b> button, operation of the remote controller is not accepted for approx. 1 minute.) (For a group control, No. of the firstly displayed indoor unit becomes the header unit.)</li> </ul>
<b>2</b>	<p>Every pushing <b>UNIT</b> button, the indoor unit No. in the group control is displayed in order. Select the indoor unit of which setup is changed.</p> <p>In this time, the position of the indoor unit of which setup is changed can be confirmed because fan and flap of the selected indoor unit operate.</p>
<b>3-1</b>	<p>Using temp. setup <b>DOWN</b> / <b>UP</b> buttons, specify ITEM CODE [12]. (ITEM CODE [12]: Line address)</p> <p style="text-align: right;">Indoor unit No. before setup change is displayed.</p>
<b>3-2</b>	<p>Using timer time <b>DOWN</b> / <b>UP</b> buttons, change the line address from [3] to [2].</p>
<b>3-3</b>	<p>Push <b>SET</b> button.</p> <p>In this time, the setup finishes when the display changes from flashing to lighting.</p>
<b>4-1</b>	<p>Using temp. setup <b>DOWN</b> / <b>UP</b> buttons, specify ITEM CODE [13]. (ITEM CODE [13]: Indoor address)</p> <p style="text-align: right;">Indoor unit No. before setup change is displayed.</p>
<b>4-2</b>	<p>Using timer time <b>DOWN</b> / <b>UP</b> buttons, change the indoor address from [3] to [2].</p>
<b>4-3</b>	<p>In this time, the setup finishes when the display changes from flashing to lighting.</p>
<b>5-1</b>	<p>Using temp. setup <b>DOWN</b> / <b>UP</b> buttons, specify ITEM CODE [14]. (ITEM CODE [14]: Group address)</p> <p style="text-align: right;">Indoor unit No. before setup change is displayed.</p>
<b>5-2</b>	<p>Using timer time <b>DOWN</b> / <b>UP</b> buttons, change the setup data from [0001] to [0002]. (Setup data [Header unit: 0001] [Follower unit: 0002])</p>
<b>5-3</b>	<p>Push <b>SET</b> button.</p> <p>In this time, the setup finishes when the display changes from flashing to lighting.</p>

Procedure	Description
6	<p>If there is other indoor unit to be changed, repeat procedure <b>2</b> to <b>5</b> to change the setup. Indoor unit No. before setup change is displayed.</p> <p>When the above setup has finished, push <b>UNIT</b> to select the indoor unit No. before change of setup, specify ITEM CODE [12], [13], [14] in order with temp. setup <b>▼</b> / <b>▲</b> buttons, and then check the changed contents.</p> <p>Address change check Before change: [3-3-1] → After change: [2-2-2]</p> <p>The contents during setup operation can be returned to original by pushing <b>CL</b> button.</p>
7	<p>After check of the changed contents, push <b>TEST</b> button. (Setup is determined.) When pushing <b>TEST</b> button, the display disappears and the status becomes the usual stop status. (When pushing <b>TEST</b> button, <b>SETTING</b> flashes and the operation from the remote controller is not accepted for approx. 1 minute.)</p> <p>* If the operation from the remote controller is not accepted even 1 minute or more passed after pushing <b>TEST</b> button, it is considered that the address setup is incorrect. In this case, the automatic address must be again set up. Therefore repeat procedure of the setup change from the Procedure <b>1</b>.</p>

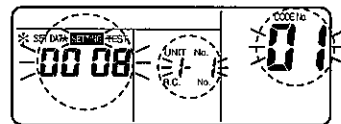


### To recognize the position of the corresponding indoor unit though the indoor unit No. is known

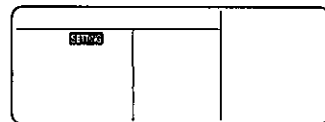
Check the position during operation stop.  
(Be sure to stop operation of the set.)



Procedure	Description
1	<p>Push simultaneously <b>TEST</b> + <b>VENT</b> buttons for 4 seconds or more. After a while, the display part flashes and the display appears as shown below. In this time, the position can be checked because fan and flap of the indoor unit operate.</p> <ul style="list-style-type: none"> <li>For the group control, the indoor unit No. is displayed as [ALL] and fans and flaps of all the indoor units in the group control operate.</li> </ul> <p>Check the displayed ITEM CODE is [01].</p> <ul style="list-style-type: none"> <li>When the ITEM CODE is other than [01], push <b>TEST</b> button to erase the display and repeat procedure from the first step. (After pushing <b>TEST</b> button, operation of the remote controller is not accepted for approx. 1 minute.)</li> </ul>
2	<p>In the group control, every pushing <b>UNIT</b> button, the indoor unit No. in the group control is displayed in order. In this time, the position of the indoor unit can be confirmed because only fan and flap of the selected indoor unit operate. (For a group control, No. of the firstly displayed indoor unit becomes the header unit.)</p>
3	<p>After confirmation, push <b>TEST</b> button to return the mode to the usual mode.</p> <p>When pushing <b>TEST</b> button, the display disappears and the status becomes the usual stop status. (When pushing <b>TEST</b> button, <b>SETTING</b> flashes and the operation from the remote controller is not accepted for approx. 1 minute.)</p>



(\* Display changes according to the model No. of indoor unit.)



# 7 TEST RUN

## Before test operation

- Before turning on the power supply, carry out the following items.
  - 1) Using 500V-megger, check there is 1MΩ or more between the terminal block of the power supply and the earth.  
If 1MΩ or less is detected, do not run the unit.
  - 2) Check that all the valves of the outdoor unit are fully opened.
- Never push the electromagnetic contactor to carry out a forced test operation.  
(It is very dangerous because a protective device does not work.)

## WARNING

To protect the compressor at starting time, keep power-ON condition before 12 hours or more.

## How to execute test operation

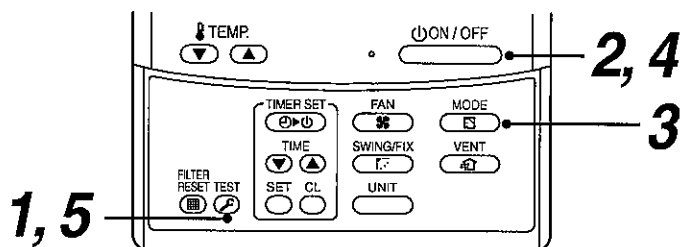
- To start the fan operation by indoor unit alone, turn off the power supply once, short-circuit CN72 on P.C. board, turn on the power supply again, change the operation mode to FAN, and then drive the fan.  
When executing a test operation using this method, be sure to release short-circuit of CN72.
- Using the remote controller, check the operation in the usual operation. For the operation procedure, refer to the attached Owner's Manual.

A forced test operation can be executed in the following procedure under condition of thermo-OFF of room temperature.

In order to prevent a serial operation, the forced test operation is released after 60 minutes and returns to the usual operation.

## NOTE

Do not use a forced operation in cases other than test operation because it applies an excessive load to the air conditioner.



## In case of wired remote controller

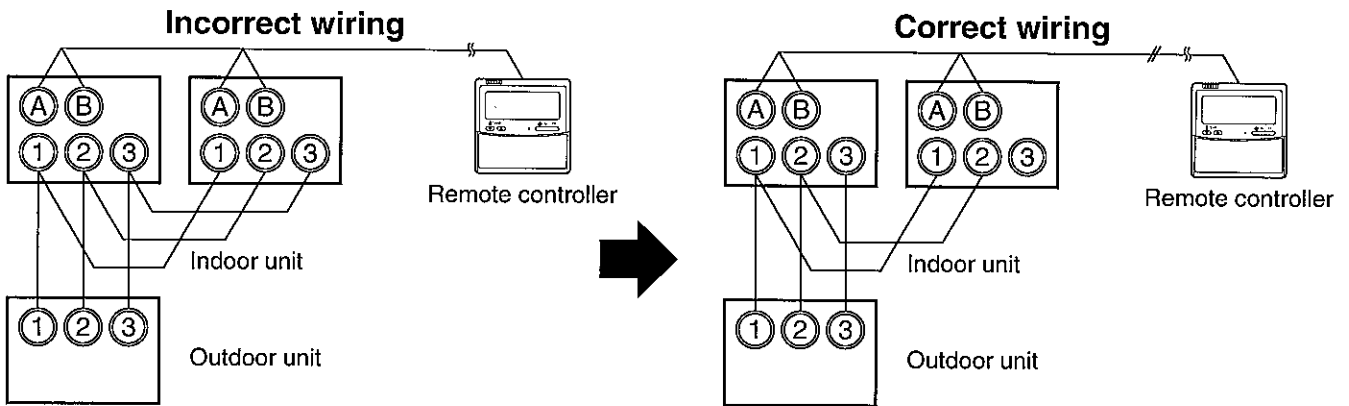
Procedure	Description
<b>1</b>	Keep <b>TEST</b> button pushed for 4 seconds or more. [TEST] is displayed on the display part and the selection of mode in the test mode is permitted.
<b>2</b>	Push <b>ON/OFF</b> button.
<b>3</b>	Using <b>MODE</b> button, select the operation mode, [COOL] or [HEAT]. <ul style="list-style-type: none"> <li>• Do not run the air conditioner in a mode other than [COOL] or [HEAT].</li> <li>• The temperature controlling function does not work during test operation.</li> <li>• The detection of error is performed as usual.</li> </ul>
<b>4</b>	After the test operation, push <b>ON/OFF</b> button to stop the operation. (Display part is same as procedure <b>1</b> )
<b>5</b>	Push <b>TEST</b> button to cancel (release from) the test operation mode. ([TEST] disappears on the display part and the status returns to a normal stop status.)




- Countermeasure against a case that the check code [E18] appeared in the simultaneous twin/triple/double twin system (Only one outdoor is set.)

E18: It is displayed when three wires were incorrectly connected between indoor units as **1-1, 2-2, 3-3**.


### Countermeasure

- 1 Correct wiring between indoor units.

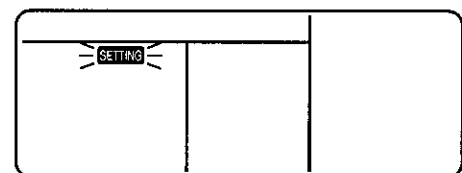


- 2-1 Push “, , timer time 

The diagram shows a wired remote controller with callouts 2-1 to 2-4. Callout 2-1 points to the 'TEST' button. Callout 2-2 points to the 'CL' button. Callout 2-3 points to the 'TIMER SET' button. Callout 2-4 points to the 'up arrow' button. The display shows 'Adr CL'.

- 2-2 [Adr CL] flashes in the display part as shown below.
- 2-3 When pushing “

The diagram shows the remote controller display with 'Adr CL' flashing, indicated by a jagged line around the text.



- 2-5 When “

12

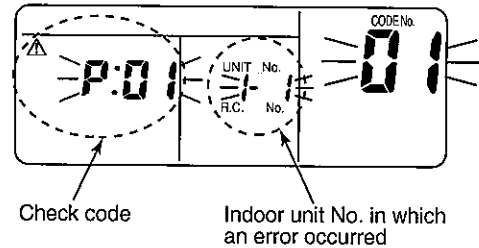
# 8 TROUBLESHOOTING

## Confirmation and check

When a trouble occurred in the air conditioner, the check code and the indoor unit No. appear on the display part of the remote controller.

The check code is only displayed during the operation.

If the display disappears, operate the air conditioner according to the following "Confirmation of error history" for confirmation.

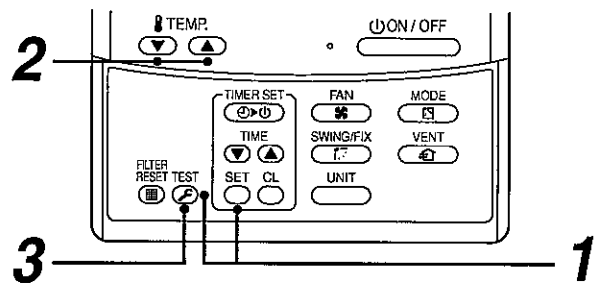


## Confirmation of error history

When a trouble occurred on the air conditioner, the error history can be confirmed with the following procedure.

(The error history is stored in memory up to 4 errors.)

This history can be confirmed from either operating status or stop status.



Procedure	Description
1	<p>When pushing <b>SET</b> and <b>TEST</b> buttons simultaneously for 4 seconds or more, the right display appears.</p> <p>If [Service Check] is displayed, the mode enters in the error history mode.</p> <ul style="list-style-type: none"> <li>• [01: Order of error history] is displayed in CODE No. window.</li> <li>• [Check Code] is displayed in CHECK window.</li> <li>• [Indoor unit address in which an error occurred] is displayed in UNIT No.</li> </ul>
2	<p>Every pushing <b>TEMP.</b> buttons, the error history stored in the memory is displayed in order.</p> <p>The numbers in CODE No. indicates CODE No. [01] (Latest) → [04] (Oldest).</p> <p><b>CAUTION</b></p> <p>Do not push <b>CL</b> button because all the error history of the indoor unit will be deleted.</p>
3	<p>After confirmation, push <b>TEST</b> button to return to the usual display.</p>

