| *Refer the service manual of each model for more detail Trouble-Shooting. |         |  |   |   |  |   |  |  |  |  | Details   |  |  |   |   |  |  |
|---|---------|--|---|---|--|---|--|--|--|--|---|--|--|---|---|--|--|
|   |         | 0  | 1   | 2   | З  | Ч   | 5  | 8  | 7  | 8  | 9   | 8  | Н  | £   | J   | Ε  | F  |
| Indoor  | 8       | External<br>protection<br>devices<br>activated   | Indoor unit<br>PCB<br>assembly<br>failure                 | Interlock error<br>for fan  | Drain level<br>system error  | Temp. of heat<br>exchanger(1)<br>error  | Temp. of heat<br>exchanger(2)<br>error   | Fan motor<br>locked,<br>overload,<br>over current          | Swing flap<br>motor error  | Over current<br>of AC input  | Electronic<br>expansion<br>valve drive<br>error                                   | Heater<br>overheat   | *Dust collector<br>error<br>*No-<br>maintenance<br>filter error  |   | Capacity<br>setting error<br>(Indoor)                 | Shortage of water supply   | Malfunctions<br>of a humidifier<br>system (water<br>leaking) |
| Unit  | Ľ       | Malfunctions<br>in a sensor<br>system  |   |   | Sensor<br>system of<br>drain water<br>error                          | Heat exchanger<br>(1) (Liquid pipe)<br>thermistor<br>system error   |  | Sensor system<br>error of fan<br>motor locked,<br>overload | Sensor system<br>of swing flap<br>motor error  | Sensor<br>system of<br>over-current<br>of AC input                         | Suction air<br>thermistor<br>error  | Discharge<br>air thermistor<br>system error                              | Contamination sensor error   | Humidity<br>sensor error  | Remote<br>control<br>thermistor<br>error              | Radiation sensor error   | High pressure switch error                                   |
|   | E       | Protection<br>devices<br>activated   | Outdoor unit<br>PCB<br>assembly<br>failure                |   | High pressure<br>switch (HPS)<br>activated                           | Low pressure<br>switch (LPS)<br>activated   | Overload of<br>inverter<br>compressor<br>motor   | Over current<br>of STD<br>compressor<br>motor              | Overload of<br>fan motor<br>Over current<br>of fan motor   | Over current of AC input   | Electronic<br>expansion<br>valve drive<br>error                                   | Four way<br>valve error  | Pump motor over current  | Water<br>temperature<br>abnormal  | (Site installed)<br>Protection<br>device<br>activated | Malfunctions<br>in a drain<br>water  | Ice thermal<br>storage unit<br>error                         |
|   | Н       | Malfunctions<br>in a sensor<br>system  | Air temperature thermistor error                          |   | High Pressure<br>switch is<br>faulty                                 | Low pressure<br>switch is<br>faulty   | Compressor<br>motor overload<br>sensor is<br>abnormal  | Compressor<br>motor over<br>current sensor<br>is abnormal  | Overload or<br>over current<br>sensor of<br>fan motor is<br>abnormal   | Sensor<br>system of<br>over-current<br>of AC input                         | Outdoor air<br>thermistor<br>system error   | Discharge air<br>thermistor<br>system error                              | Pump motor<br>sensor system<br>of over current<br>is abnormal  | Water<br>temperature<br>sensor system<br>error                            |   | Sensor system<br>of drain water<br>is abnormal                                     | Ice thermal<br>storage unit<br>error (alarm)                 |
| Outdoor   | F       | No.1 and No.2<br>common<br>protection<br>device<br>operates.   | <sup>2</sup> No.1<br>protection<br>device<br>operates.    | No.2<br>protection<br>device<br>operates.   | Discharge<br>pipe<br>temperature<br>is abnormal                      |   |  | Temp. of heat<br>exchanger(1)<br>abnormal                  |  |  |   | Discharge<br>pressure<br>abnormal  | Oil<br>temperature<br>is abnormally<br>high  | Suction<br>pressure<br>abnormal   |   | Oil pressure<br>abnormal   | Oil level<br>abnormal  |
| Unit  | J       | Sensor system<br>error of<br>refrigerant<br>temperature  | Pressure<br>sensor error                                  | Current<br>sensor error   | Discharge pipe<br>thermistor<br>system error                         | Low pressure<br>equivalent<br>satulated temp.<br>sensor system<br>error   | Suction pipe<br>thermistor<br>system error   | Heat<br>exchanger(1)<br>thermistor<br>system error         | Heat<br>exchanger(2)<br>thermistor<br>system error   | Oil equalizer<br>pipe or liquid<br>pipe thermistor<br>system error         | Double tube<br>heat exchanger<br>outlet or gas<br>pipe thermistor<br>system error | Discharge<br>pipe pressure<br>sensor error                               | Oil<br>temperature<br>sensor error   | Suction pipe<br>pressure<br>sensor error                                  |   | Oil pressure<br>sensor error   | Oil level sensor error                                       |
|   | L       | Inverter<br>system error   |   |   | Temperature<br>rise in a<br>switch box                               | Radiation fin<br>(power transistor)<br>temperature is<br>too high   | Compressor<br>motor grounded<br>or short circuit,<br>inverter PCB<br>fault   | Compressor<br>motor grounded<br>or short circuit           | Over current of all inputs   | Compressor<br>over current,<br>compressor<br>motor wire cut                | Stall prevension<br>error<br>(start-up error)<br>Compressor<br>locked etc.        | Power<br>transistor<br>error   |  | Communication<br>error between<br>inverter and<br>outdoor control<br>unit |   |  |  |
|   | P       | Shortage of<br>refrigerant<br>(thermal<br>storage unit)  | Power voltage<br>imbalance,<br>open phase                 |   | Sensor error<br>of temperature<br>rise in a<br>switch box            | temperature<br>sensor error   | DC current<br>sensor system<br>error   | error  | Total input<br>current sensor<br>error   |  |   |  |  |   | Capacity<br>setting error<br>(Outdoor)                |  |  |
| Sustan  | U       | Low pressure<br>drop due to<br>insufficient<br>refrigerant or<br>electronic<br>expansion<br>valve error, etc | Reverse<br>phase, Open<br>phase                           | Power voltage<br>failure<br>Instantaneous<br>power failure                        | Failure to carry<br>out check<br>operation,<br>transmission<br>error | Communication<br>error between<br>indoor unit and<br>outdoor unit,<br>communication<br>error between<br>outdoor unit and<br>BS unit | *Communication<br>error between<br>remote control<br>and indoor unit<br>*Remote control<br>board failure or<br>setting error for<br>remote control | Communication<br>error between<br>indoor units             | *Communication<br>error between<br>outdoor units<br>*Communication<br>error between<br>outdoor unit and<br>ice thermal<br>storage unit | between main and sub<br>remote controllers (sub                            | unit and outdoor unit<br>in the same system<br>*Communication error               | error of indoor/<br>BS/outdoor unit<br>(model, guantity                  | Improper<br>connection of<br>transmission<br>wiring between<br>outdoor and<br>outdoor unit<br>outside control<br>adaptor | Centralized<br>address<br>duplicated                                      | Attached<br>equipment<br>transmission<br>error        | Communication<br>error between<br>indoor unit and<br>centralized<br>control device | operation  |
| System  | n//<br> |  | Centralized<br>remote<br>controller PCB<br>error          |   |  |   |  |  |  | Communication<br>error between<br>centralized<br>remote control<br>devices |   | Centralized<br>remote control<br>devices<br>inappropriate<br>combination |  | Centralized<br>remote<br>controller<br>address setting<br>error           |   |  |  |
|   | З       |  | The humidity<br>sensor of<br>return air<br>sensor         | Outdoor air<br>humidity<br>sensor error   | Supply air<br>temp.<br>sensor error                                  | Return air<br>temp.<br>sensor error   | Outdoor air<br>temp.<br>sensor error   | Remote<br>controller<br>temp.<br>sensor error              |  |  |   | Water leakage<br>sensor 1<br>error                                       | Water leakage<br>sensor 2 error  | Dew<br>condensation<br>sensor error                                       |   |  |  |
| Others  | Ч       | Humidifying valve error  | Chilled water valve error                                 | Hot water<br>valve error  | Heat<br>exchanger of<br>chilled water<br>error                       | Heat<br>exchanger<br>of hot water<br>error  |  |  |  |  |   |  |  |   |   |  |  |
| Others  | 5       |  | Fan motor of<br>supply air over<br>current or<br>overload | Fan motor of<br>return air over<br>current<br>Fan motor of<br>return air overload | Inverter<br>system error<br>(supply air<br>side)                     | Inverter<br>system error<br>(return air<br>side)  |  |  |  |  |   |  |  |   |   |  |  |
|   | 8       | All system<br>error  | PC board<br>error   | Ozone<br>density<br>abnormal  | Contamination sensor error   | Indoor air<br>thermistor<br>system error  | Outdoor air<br>thermistor<br>system error  |  |  | HVU error<br>(Ventiair<br>dustcollecting<br>unit)                          |   | Damper<br>system error   | Door switch<br>error   | Replace the humidity element  | Replace the<br>high efficiency<br>filter              | Replace the deodorization catalyst   | Simplified<br>remote<br>controller<br>error                  |



## Simple Self-Diagnosis by malfunction code

|                     |            |   |   | Troubl                                | e Part           |                      |  |                         | <u></u> |     |
|---------------------|------------|---|---|---------------------------------------|------------------|----------------------|--|-------------------------|---------|-----|
| Error               |            | Description of Problem  |   | · · · · · · · · · · · · · · · · · · · | ed Circuit Board |                      | Error Contents   | Objects                 |         |     |
| Code                |            |   |   | Outdoor<br>Unit                       | Indoor<br>Unit   | Remote<br>Controller | Endroments   | Room Air<br>Conditioner | SkyAir  | VRV |
|                     | 81         | Micro-computer in PCB is not working  |   | _                                     | 0                | _                    | PCB assembly fault or external factor (noise etc.)   | —                       | 0       | 0   |
|                     | 83         | Drain level is too high   | 0 | _                                     | _                | _                    | Clogging of dirt in drain pipe, insufficient drain pipe slope, faulty drain pump   | 0                       | 0       | 0   |
|                     | <i>8</i> 5 | Heating; Overheating of indoor unit heat exchanger,<br>Cooling; Freeze up of indoor unit heat exchanger | 0 | _                                     | _                | _                    | Dirty air filter, Short circuit or Senser trouble of heat exchanger  | 0                       | _       | _   |
|                     | 88         | Fan motor error   | 0 | _                                     | $\triangle$      | _                    | Fan motor lock, overload or faulty connection  |                         | 0       | 0   |
|                     | 87         | Swing flap motor error  | 0 | _                                     |                  | _                    | Faulty swing flap motor, faulty connection   | _                       | 0       | 0   |
| Indoor Unit         | RH         | Dust collector error  | 0 | _                                     | _                | _                    | Faulty dust collector or dirty element   | _                       | 0       | 0   |
| oopu                | RJ         | Capacity setting error  | _ | _                                     | 0                | _                    | Faulty capacity setting or address setting error   | _                       | 0       | 0   |
|                     | [3         | The resistance of the water level sensor is abnormal.   | 0 |                                       | $\triangle$      | _                    | Faulty water level sensor, cable disconnection or short circuit of sensor  |                         | 0       | 0   |
|                     | ĽY         | The resistance of the indoor unit heat exchanger thermistor is abnormal.                                | 0 |                                       | $\triangle$      | _                    | Faulty heat exchanger thermistor, cable disconnection or short circuit of thermistor   | 0                       | 0       | 0   |
|                     | [9         | The resistance of the indoor unit suction air thermistor is abnormal.                                   | 0 |                                       | $\triangle$      | _                    | Faulty suction air thermistor, cable disconnection or short circuit of thermistor  | 0                       | 0       | 0   |
|                     | EE         | The resistance of the indoor unit radiation thermistor is abnormal.                                     | 0 |                                       | $\triangle$      | _                    | Faulty radiation thermistor, cable disconnection or short circuit of thermistor  |                         | 0       | 0   |
|                     | ٤J         | The resistance of the remote controller thermistor is abnormal.   |   |                                       |                  | 0                    | Faulty remote controller thermistor (built in remote controller)   |                         | 0       | 0   |
|                     | <i>E0</i>  | Outdoor unit protection devices activated   | 0 |                                       |                  |                      | Clogging of refrigerant piping system, insufficient refrigerant or compressor/fan motor fault                                |                         | 0       | 0   |
|                     | <i>E3</i>  | High pressure is too high (HPS activation)  | 0 |                                       |                  |                      | Condenser air shot circuit, overload or dirty heat exchanger   | 0                       | 0       | 0   |
|                     | EЧ         | Low pressure is too low (LPS activation)  | 0 |                                       |                  | _                    | Clogging of refrigerant piping system, insufficient refrigerant or faulty LPS switch   | _                       | 0       | 0   |
| Unit                | <i>E</i> 5 | Overheating of compressor (OL activation)   | 0 |                                       |                  | _                    | Clogging of refrigerant piping system,<br>insufficient refrigerant, faulty OL or connection                                  | 0                       | _       | _   |
| <b>Outdoor Unit</b> | F3         | Outdoor unit discharge temperature is too high  | 0 |                                       |                  | _                    | Clogging of refrigerant piping system, insufficient refrigerant or faulty dicharge temp. thermistor                          |                         | 0       | 0   |
| Out                 | H9         | The resistance of the outdoor air temp. thermistor is abnormal.   | O |                                       |                  |                      | Faulty outdoor air thermistor, cable disconnection or short circuit of thermistor  | 0                       | 0       | 0   |
|                     | J5         | The resistance of the suction pipe temp. thermistor is abnormal.  | 0 |                                       |                  |                      | Faulty suction pipe thermistor, cable disconnection or short circuit of thermistor   | 0                       | 0       | 0   |
|                     | JS         | The resistance of the outdoor heat exchanger thermistor is abnormal.                                    | 0 |                                       |                  |                      | Faulty outdoor heat exchanger thermistor, cable disconnection or short circuit of thermistor                                 | 0                       | 0       | 0   |
|                     | <b>P1</b>  | Power voltage imbalance, open phase   | 0 |                                       |                  |                      | 3 phase power voltage imbalance or open phase  |                         | 0       | 0   |
|                     | UD         | Suction pipe temperature is too high  | O |                                       |                  |                      | Clogging of refrigerant piping system, insufficient refrigerant or expansion valve fault etc.                                | 0                       | 0       | 0   |
|                     | U1         | Reverse phase   | O |                                       |                  |                      | Reverse phase of 3 phase power supply  | 0                       | 0       | 0   |
| tem                 | U2         | Open phase or power voltage imbalance   | O |                                       |                  |                      | Open phase or voltage imbalance of power supply, instantaneous power failure, DC voltage to fan motor too low                | 0                       | 0       | 0   |
| System              | UЧ         | Communication error between indoor and outdoor units or outndoor and BS units                           | O | 0                                     | 0                |                      | Interconnection wire mistake, external factor (noise etc.), indoor or outdoor PCB fault                                      | 0                       | 0       | 0   |
|                     | US         | Communication error between indoor unit and remote controller   | 0 |                                       | 0                | 0                    | Interconnection wire mistake, external factor (noise etc.), indoor or remote controller PCB fault                            | 0                       | 0       | 0   |
|                     | UR         | Combination error of indoor/BS/outdoor<br>unit (model, quantity etc.),<br>Setting error of PCB at site  | 0 |                                       |                  |                      | Incorrect combination of indoor/BS/outdoor<br>unit (model, quantity etc.), Setting error of<br>spare parts PCB when replaced | 0                       | 0       | 0   |

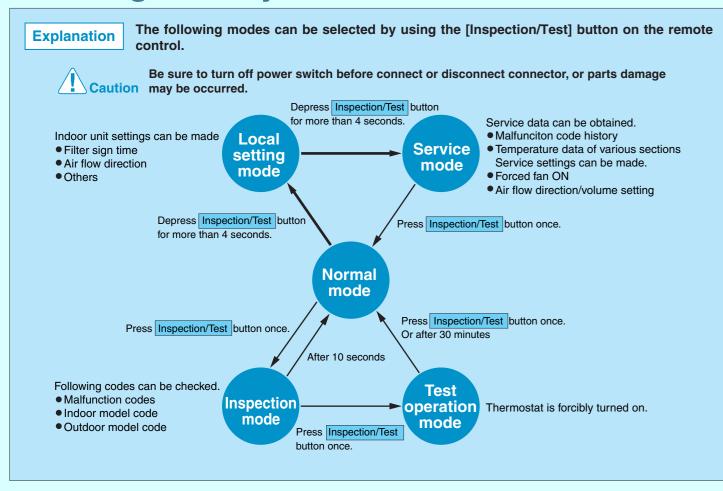
🔘 : The possibility of failure is large. 🔘 : The possibility of failure. 🛆 : In most cases, it is normal — : There is not possibility of failure.

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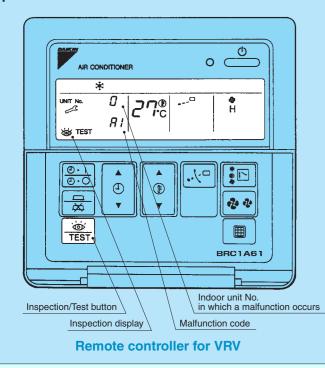
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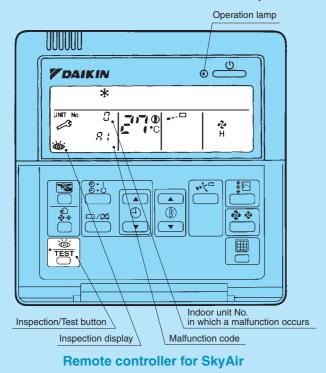
## **SkyAir or VRV**

### **Self-Diagnosis by Wired Remote Controller**



If operation stops due to malfunction, the remote controller's operation LED blinks, and malfunction code is displayed. (Even if stop operation is carried out, malfunction contents are displayed when the inspection mode is entered.) The malfunction code enables you to tell what kind of malfunction caused operation to stop.



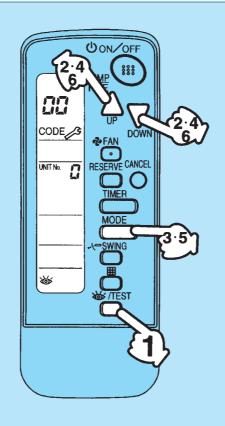


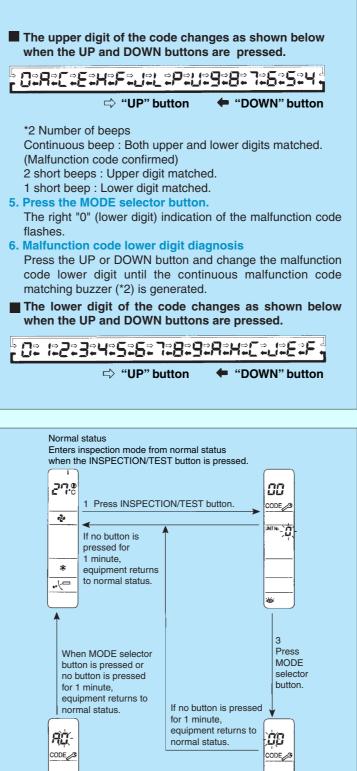
### Self-Diagnosis by Wireless Remote Controller

If equipment stops due to a malfunction, the operation indicating LED on the light reception section flashes. The malfunction code can be determined by following the procedure described below. (The malfunction code is displayed when an operation error has occurred. In normal condition, the malfunction code of the last problem is displayed.)

#### Procedure

- 1. Press the INSPECTION/TEST button to select "Inspection.' The equipment enters the inspection mode. The "Unit" indication lights and the Unit No. display shows flashing "0" indication.
- 2. Set the Unit No. Press the UP or DOWN button and change the Unit No.
- display until the buzzer (\*1) is generated from the indoor unit.
- \*1 Number of beeps
- 3 short beeps : Conduct all of the following operations.
- 1 short beep : Conduct steps 3 and 4.
- Continue the operation in step 4 until a buzzer remains ON. The continuous buzzer indicates that the malfunction code is confirmed
- Continuous beep : No abnormality
- 3. Press the MODE selector button. The left "0" (upper digit) indication of the malfunction code flashes.
- 4. Malfunction code upper digit diagnosis Press the UP or DOWN button and change the malfunction code upper digit until the malfunction code matching buzzer (\*2) is generated.





5 Press MODE selector button.

\*

# **Room Air Conditioner**

### **Self-Diagnosis by Wireless Remote Controller**

In the ARC433A series remote controller, the temperature display sections on the main unit indicate corresponding codes.

#### Check Method 1

1. When the timer cancel button is held down for 5 seconds, a "[][]" indication flashes on the temperature display section.

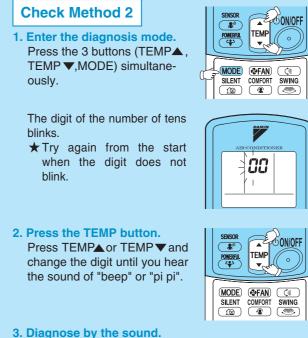
| AIR-CONDITIONER<br>CIN-CONDITIONER<br>CIN-CONDITIONER<br>CIN-CIN-CIN-CIN-CIN-CIN-CIN-CIN-CIN-CIN-   |                     |
|---|---------------------|
| SENSOR<br>R*<br>POWERAL<br>CONVOFF<br>TEMP<br>V   |                     |
| Imode Image: Application of the second se |                     |
| ON CANCEL<br>OFF TIMER  | TIMER CANCEL button |
|   |                     |
| <arc433a41></arc433a41>   |                     |

- 2. Press the timer cancel button repeatedly until a continuous beep is produced
- The code indication changes in the sequence shown below, and notifies with a long beep.

| No. | Code       | No. | Code      | No. | Code |
|-----|------------|-----|-----------|-----|------|
| 1   | 00         | 12  | F6        | 23  | 81   |
| 2   | UЧ         | 13  | 67        | 24  | E1   |
| 3   | LS         | 14  | <i>R3</i> | 25  | UR   |
| 4   | <i>E6</i>  | 15  | H8        | 26  | UH   |
| 5   | HS         | 16  | H9        | 27  | PЧ   |
| 6   | HO         | 17  | 69        | 28  | L3   |
| 7   | <i>R</i> 5 | 18  | ٤ч        | 29  | LY   |
| 8   | <i>E</i> 7 | 19  | ٤5        | 30  | H7   |
| 9   | UD         | 20  | JЗ        | 31  | U2   |
| 10  | F3         | 21  | JБ        | 32  | ER   |
| 11  | <i>R</i> 5 | 22  | ES        | 33  | RH   |

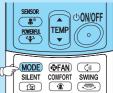
### **Note:**

- 1. A short beep and two consecutive beeps indicate non-corresponding codes.
- 2. To cancel the code display, hold the timer cancel button down for 5 seconds. The code display also cancels itself if the button is not pressed for 1 minute.

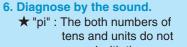


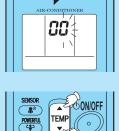
- ★ "pi" : The number of tens does not accord with the error code
- $\star$  "pi pi" : The number of tens accords with the error code.
- ★ "beep" : The both numbers of tens and units accord with the error code.

4. Enter the diagnosis mode again. Press the MODE button. The digit of the number of units blinks.

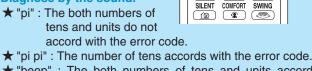


5. Press the TEMP button. Press TEMP▲ or TEMP▼and change the digit until you hear the sound of "beep".





MODE @FAN accord with the error code.



- ★ "beep" : The both numbers of tens and units accord with the error code.
- 7. Determine the error code. The digits indicated when you hear the "beep" sound are error code
- 8. Exit from the diagnosis mode. Press the MODE button.

