# 3. Alignment and Adjustments

## 3-1 Indoor Display Error and Check Method

### ■ Error detection and reoperation

- If error occurs during the operation, badness is indicated by LED flickering and all operation is stopped except LED.
- When reoperating by remote control and switch determine the error mode after normal operation.

### ■ Indoor unit LED lamp display at error detecting

| Error type | LED lamp display | | | | | Remark |
|---|---|---|---|---|---|---|
| | Concealed Type ⏻ | | ⏱ | ❄ | ▦ | |
| | Green | Red | | | | |
| | Standard Type | | | | | |
| | ⏻ | ❄ | | | | |
| Power reset | ◗ | X | X | X | X | |
| Error of temperature sensor in the indoor unit (Open/Short) | X | X | ◗ | X | X | |
| Error of heat exchanger sensor in the indoor unit | ◗ | X | ◗ | X | X | |
| Error of the outdoor temperature sensor  Error of the condensor temperature sensor  Error of the discharge temperature sensor | ◗ | X | X | ◗ | X | |
| Indoor and outdoor unit time out  Abnormal data reception more than 60 packet  Indoor unit is not connected  Communication error between the outdoor unit Main-Inverter Micom(After 1 minute of Main-Inverter detection) | X | X | ◗ | ◗ | X | 1. Indoor unit error (Display is unrelated with operation)  2. Outdoor unit error (Display is unrelated with operation) |

● : On, ◗ : Flickering, Ⅹ : OFF

◆ If you turn off the air conditioner when the LED is flickering, the LED is also turned off.

## ■ LED Display

| Error type | LED lamp display | | | | | Remark |
|---|---|---|---|---|---|---|
| | Concealed Type ⏻ | | ⏱ | ❄ | ▦ | |
| | Green | Red | | | | |
| | Standard Type | | | | | |
| | ⏻ | ❄ | | | | |
| [Self diagnosis]Power voltage detection between indoor and outdoor unit communication cable<br><br>[Self diagnosis]Outdoor unit refrigerant leakage (Gas leak)<br><br>[Self diagnosis]Outdoor fan restriction error<br><br>[Inverter]Inverter compressor operation failure<br><br>[Inverter] DC peak error<br><br>[Inverter]DC Link voltage 150V or less, 410V or more<br><br>[Inverter] Compressor rotation error<br><br>[Inverter]Electric current error<br><br>[Inverter]DC Link sensor error<br><br>[Inverter]EEPROM READ/WRITE error<br><br>[Inverter]Inverter zerocrossing error<br><br>Setting the outdoor unit capacity option error | X | X | ◑ | ◑ | ◑ | |
| Detection of the float switch | X | X | X | ◑ | ◑ | |
| Error of setting option switches for optional accessories | X | X | ◑ | X | ◑ | |
| EEPROM error | ◑ | X | ◑ | ◑ | X | |
| EEPROM option error | ◑ | ◑ | ◑ | ◑ | ◑ | |

● : On, ◑ : Flickering, Χ: OFF

◆ If you turn off the air conditioner when the LED is flickering, the LED is also turned off.

## 3-1-1 Wired Remocon Error Display (COM2)

| Display | Explanation | Remark |
|---|---|---|
| 101 | Indoor unit Communication Error | Communication Error |
| 102 | Indoor/Outdoor unit Communication Time Out Error | |
| 102 | 60 Packet Over data | |
| 201 | Indoor unit is not connected | |
| 203 | Communication Error between Outdoor Main and Inverter Micom (Occurred after l minute detection in Main and Inverter) | |
| 121 | Indoor Temp. Sensor(OPEN/SHORT ERROR) | Indoor Sensor Error |
| 122 | Indoor Unit Eva in sensor(OPEN/SHORT ERROR) | |
| 128 | Indoor Unit Eva in sensor Separation | |
| 221 | Outdoor Temp. Sensor Error(OPEN/SHORT ERROR) | Outdoor Sensor Error |
| 237 | COND Temp. Sensor Error(OPEN/SHORT ERROR) | |
| 260 | Inverter Compressor Discharge Temp. sensor Error(OPEN/SHORT ERROR) | |
| 153 | Indoor Float S/W 2nd Detection | Self Diagnosys Error |
| 460 | Outdoor unit-Indoor unit Communication wire Voltage Detection | |
| 554 | Outdoor unit Refrigerant Full Leakage(Gas Leak) | |
| 458 | Outdoor door Fan Error | |
| 461 | [Inverter]Inverter Comp. Start Failure | Outdoor Unit Protection Control Error |
| 464 | [Inverter]DC PEAK Error | |
| 466 | [Inverter]DC LINK Voltage 150V below, 410V Over | |
| 467 | [Inverter]Comp. Rotation Error | |
| 468 | [Inverter]Current Sensor Error | |
| 469 | [Inverter]DC LINK Sensor Error | |
| 471 | [Inverter]EEPROM READ/WRITE Error | |
| 472 | [Inverter]Inverter ZEROCROSSING Error | |
| 556 | Outdoor unit Capacity Setup Option Error | |
| 601 | Wired Liquid Crystal ↔ Indoor unit Comm. Error | Wired Remote Control Error |
| 602 | Master Wired Liquid Crystal ↔ Slave Liquid Crystal Comm. Error | |
| 606 | Wired Liquid Crystal COM1/COM2 Cross Error | |
| Er | Error of setting option for wired remote controller COM2 | |

# 3-2 Outdoor LED Error Display and Check Method

| No. | LED Display | | | Explanation |
| --- | --- | --- | --- | --- |
| | Yellow | Green | Red | |
| 1 | ○ | ○ | ○ | Power off/ VDD NG |
| 2 | ○ | ○ | ◎ | IPM Over Current(O.C) |
| 3 | ○ | ○ | ● | Abnormal Serial communication |
| | ○ | ● | ● | |
| 4 | ○ | ◎ | ○ | Compressor Starting error |
| 5 | ○ | ◎ | ● | Normal Operation |
| 6 | ○ | ● | ○ | Compressor Lock error |
| 7 | ○ | ● | ◎ | DC-Link voltage under/over error |
| 8 | ◎ | ○ | ◎ | Outdoor temperature sensor error(Dual/Single) |
| 9 | ◎ | ○ | ● | Discharge over temperature(Dual/Single) |
| 10 | ◎ | ◎ | ○ | Discharge temperature sensor error(Dual/Single) |
| 11 | ◎ | ◎ | ● | Current sensor error |
| 12 | ◎ | ● | ○ | Compressor Limit error |
| 13 | ◎ | ● | ◎ | Coil temperature sensor error(Dual/Single) |
| 14 | ◎ | ● | ● | 1min. Time out Communication |
| 15 | ● | ○ | ○ | Fan error |
| 16 | ● | ○ | ◎ | OTP error |
| 17 | ● | ○ | ● | Compressor rotation error |
| 18 | ● | ◎ | ○ | Operation condition secession(Dual only) |
| 19 | ● | ◎ | ◎ | DC-Link voltage sensor error |
| 20 | ● | ◎ | ● | I_Trip error / PFC Over current |
| 21 | ● | ● | ○ | GAS Leak error(Dual/Single) |
| 22 | ● | ● | ◎ | AC Line Zero Cross Signal out |
| 23 | ● | ● | ● | Power ON reset(1sec) |
| 24 | ◎ | ○ | ○ | Capacity miss match |
| 25 | ○ | ◎ | ◎ | Test Operation at Cooling Mode |
| 26 | ◎ | ◎ | ◎ | Test Operation at Heating Mode |

● : LED ON, ○ : LED OFF, ◎ : LED BLINK

## ex) Option No. : $085115 - 1d2340$
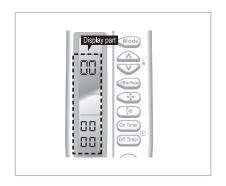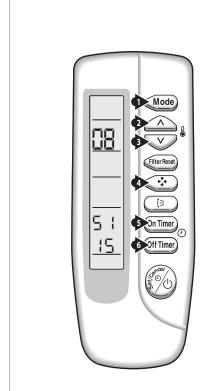
**Step 1** : **Enter the Option Setup mode.**

1st   Take out the batteries of remote control.

2nd   Press the temperature button simultaneously and insert the battery again.

3rd   Make sure the remocon display shown as .

**Step 2** : **Enter the Option Setup mode and select your option according to the following procedure.**

**1**

The default value is .
Otherwise, push the (Mode) button to $0$ .
Every time you push the button, the display panel reads $1$ or $0$ repeatedly.

**2**

Push the button to set the display panel to $8$ .
Every time you push the button, the display panel reads $0 → 1 → 2 → 3 → … 9 → A → b → c → d → E → F$ repeatedly.

**3**

Push the button to set the display panel to $5$ .
Every time you push the button, the display panel reads $0 → 1 → 2 → 3 → … 9 → A → b → c → d → E → F$ repeatedly.

**4**

Push the button to set the display panel to $1$ .
Every time you push the button, the display panel reads $0 → 1 → 2 → 3 → … 9 → A → b → c → d → E → F$ repeatedly.

**5**

Push the (On Timer) button to set the display panel to $1$ .
Every time you push the button, the display panel reads $0 → 1 → 2 → 3 → … 9 → A → b → c → d → E → F$ repeatedly.

**6**

Push the (Off Timer) button to set the display panel to $5$ .
Every time you push the button, the display panel reads $0 → 1 → 2 → 3 → … 9 → A → b → c → d → E → F$ repeatedly.

✳ Setting is not required if you must $0$ a value which has a $0$ default.

**7**

Press ⬭Mode button, then the default value is `88`.

**8**

Push the ⬭ button to set the display panel to `d`.
Every time you push the button, the display panel reads `0` ➡ `1` ➡ `2` ➡ `3` ➡ … `9` ➡ `A` ➡ `b` ➡ `c` ➡ `d` ➡ `E` ➡ `F` repeatedly.

**9**

Push the ⬭ button to set the display panel to `2`.
Every time you push the button, the display panel reads `0` ➡ `1` ➡ `2` ➡ `3` ➡ … `9` ➡ `A` ➡ `b` ➡ `c` ➡ `d` ➡ `E` ➡ `F` repeatedly.

**10**

Push the ⬭ button to set the display panel to `3`.
Every time you push the button, the display panel reads `0` ➡ `1` ➡ `2` ➡ `3` ➡ … `9` ➡ `A` ➡ `b` ➡ `c` ➡ `d` ➡ `E` ➡ `F` repeatedly.

**11**

Push the ⬭On Timer button to set the display panel to `4`.
Every time you push the button, the display panel reads `0` ➡ `1` ➡ `2` ➡ `3` ➡ … `9` ➡ `A` ➡ `b` ➡ `c` ➡ `d` ➡ `E` ➡ `F` repeatedly.

**12**

Push the ⬭Off Timer button to set the display panel to `0`.
Every time you push the button, the display panel reads `0` ➡ `1` ➡ `2` ➡ `3` ➡ … `9` ➡ `A` ➡ `b` ➡ `c` ➡ `d` ➡ `E` ➡ `F` repeatedly.

✳ Setting is not required if you must `0` a value which has a `0` default.

**Step 3 : Upon completion of the selection, check you made right selections.**

Press the Mode Selection key, ⬭Mode to set the display part to `0` and check the display part.

➡ The display part shows `08` `51` `15`.

Press the Mode Selection key, ⬭Mode set the display part to `1` and check the display part.

➡ The display part shows `1d` `23` `40`.

**Step 4 : Pressing the ON/OFF button ( ⬭ )**

When pressing the operation ON/OFF key with the direction of remote control for unit, the sound "Ding" or "Diriring" is heard and the OPERATION ICON( ⏻ ) lamp of the display is flickering at the same time, then the input of option is completed. (If the diriring sound isn't heard, try again pressing the ON/OFF button.)

**Step 5 : Unit operation test-run**

**First,** Remove the battery from the remote control.

**Second,** Re-insert the battery into the remote control.

**Third,** Press ON/OFF button( ⬭ ) with the direction of remote control for set.

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• **Error Mode**

1ˢᵗ    If all lamps of indoor unit are flickering, Plug out, plug in power plug again and press ON/OFF key to retry.

2ⁿᵈ    If the unit is not working properly or all lamps are continuously flickering after setting the option code, see if the correct option code is set up for its model.

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## ■ OPTION ITEMS

| REMOCON<br>MODEL | SEG1 | SEG2 | SEG3 | SEG4 | SEG5 | SEG6 | SEG7 | SEG8 | SEG9 | SEG10 | SEG11 | SEG12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EH035EAV | 0 | 1 | 5 | 7 | 7 | 3 | 1 | 5 | 8 | 1 | d | b |
| EH052EAV | 0 | 1 | 5 | 7 | 7 | 3 | 1 | 9 | 8 | 1 | 3 | 9 |
| EH070EAV | 0 | 1 | 5 | 7 | 7 | 4 | 1 | c | 8 | 2 | 7 | 8 |