







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	
	Green	Red				
	Standard Type					
[Self diagnosis]Power voltage detection between indoor and outdoor unit communication cable						
[Self diagnosis]Outdoor unit refrigerant leakage (Gas leak)						
[Self diagnosis]Outdoor fan restriction error						
[Inverter]Inverter compressor operation failure						
[Inverter] DC peak error						
[Inverter]DC Link voltage 150V or less, 410V or more	X	X	●	●	●	
[Inverter] Compressor rotation error						
[Inverter]Electric current error						
[Inverter]DC Link sensor error						
[Inverter]EEPROM READ/WRITE error						
[Inverter]Inverter zerocrossing error						
Setting the outdoor unit capacity option error						
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, X: 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	
	60 Packet Over data	
201	Indoor unit is not connected	
203	Communication Error between Outdoor Main and Inverter Micom (Occurred after 1 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 2 nd 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	Wired Remote Control Error
601	Wired Liquid Crystal ↔ Indoor unit Comm. 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

3-3 Setting Option Setup Method

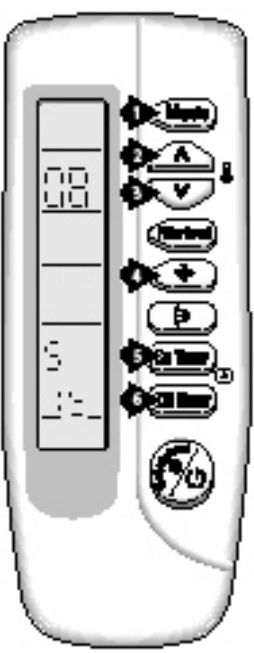




















































ex) Option No. : 085 115- 122340


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 remote display shown as  .





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


 <p>* Setting is not required if you must  a value which has a  default.</p>	<p>1</p> <p>The default value is  . Otherwise, push the  button to  . Every time you push the button, the display panel reads  or  repeatedly.</p>
	<p>2</p> <p>Push the  button to set the display panel to  . Every time you push the button, the display panel reads  →  →  →  → ... →  →  →  → → → → → → → → → → → repeatedly.</p>
	<p>3</p> <p>Push the  button to set the display panel to  . Every time you push the button, the display panel reads  →  →  →  →  → ... →  →  → → → → → → → → → → → repeatedly.</p>
	<p>4</p> <p>Push the  button to set the display panel to  . Every time you push the button, the display panel reads  →  →  →  →  → ... →  →  → → → → → → → → → → → repeatedly.</p>
	<p>5</p> <p>Push the  button to set the display panel to  . Every time you push the button, the display panel reads  →  →  →  →  → ... →  →  → → → → → → → → → → → repeatedly.</p>
	<p>6</p> <p>Push the  button to set the display panel to  . Every time you push the button, the display panel reads  →  →  →  →  → ... →  →  → → → → → → → → → → → repeatedly.</p>





7 Press  button, then the default value is **101**.

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  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  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,  to set the display part to **0** and check the display part.

→ The display part shows .

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

→ The display part shows .

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.

• 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.

■ OPTION ITEMS

REMOCON MODEL	SEG1	SEG2	SEG3	SEG4	SEG5	SEG6	SEG7	SEG8	SEG9	SEG10	SEG11	SEG12
EH035EAV1	0	1	3	7	7	3	1	5	8	1	d	b
EH052EAV1	0	1	5	7	7	1	1	9	8	3	e	6
EH070EAV1	0	1	5	7	7	4	1	c	8	2	7	8