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## 3. Alignment and Adjustments

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### 3-1 Test Mode

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#### ■ How to Approach Test Mode

You can approach the test mode by pressing the on/off switch of indoor unit for 5 seconds.



#### ■ Test mode operation option

After installing the air conditioner, check whether each subordinate is normally operated or not by operating the test mode.

- **When an Error occurs, display the Error Mode.**
- **Operation Mode :** Cool mode. operate the cool mode by operating the compressor by force without the compressor ON/OFF according to the set temperature/indoor temperature. (Do not follow the antifreeze control)
- **Up-down louver :** Up-down swing mode
- **Indoor Fan :** Turbo



#### Note

- Because the test mode operate the cool mode by force not related to the set temperature / indoor temperature, check whether each subordinate is operated normally or not after completing installation and must turn off the power of the air conditioner.

## 3-2 Display Error and Check Method

### 3-2-1 Indoor Display Error and Check Method

ERROR MODE				DESCRIPTION
7-SEG	LED1	LED2	LED3	
	OPERATION	TIMER	OPTION	
E101, E102	○	◐	◐	Communication error (indoor <-> outdoor)
E121	○	◐	○	ROOM TH sensor error
E122, E123	◐	◐	○	INDOOR MID, INDOOR IN PIPE-TH sensor error
E154	○	○	◐	Fan error(indoor)
E162	◐	◐	◐	EEPROM error
E163	◐	◐	◐	Option error
FROM E200	◐	○	◐	Outdoor error display
E203	◐	●	●	Time out Comm.(Inv Micom <-> Main Micom)
E422/E554	●	○	◐	EEV or Valve Close error-Self diagnosis /Gas Leak Error
E458	●	●	◐	Out door Fan Error
E461	◐	●	◐	Comp Starting Error
E464	○	●	◐	IPM Over Current(O.C) Error
E465	◐	●	○	Comp V_limit/I_limit Error
E500				Heatsink overheat or IPM overheat

● : LAMP ON      ○ : LAMP OFF      ◐ : LAMP BLINK

\* Note \*

If the Set doesn't work (No power), check the Thermal fuse of Terminal block OPEN or SHORT with Multimeter.

\* Measure the Thermal fuse housing PIN#1 ~ 2 :  
OPEN(disconnection) -> defective product

### 3-2-2 Outdoor LED Display Error and Check Method

LED PATTERN			7SEG DISPLAY	DESCRIPTION
YEL	GRN	RED		
○	○	○	-	POWER OFF / VDD NG
●	●	●	-	Power ON reset(1sec)
○	◎	●	-	NORMAL OPERATION
○	○	●	-	Abnormal Communication (Indoor<->Outdoor)
○	●	●	-	
○	○	◎	E464	IPM Over Current(O.C) Error
○	◎	○	E461	Comp Starting Error
○	●	○	E470	EEPROM Data Error (no data)
○	●	◎	E466	DC-Link Voltage Under/Over Error
			E484	PFC Over Load Error
			E483	Over Voltage Protection Error
◎	○	◎	E221	OUT-TH(Outdoor Temperature) Sensor Error
◎	○	●	E416	DIS-TH(Discharge Temperature) Over Error
◎	◎	○	E251	DIS-TH(Discharge Temperature) Sensor Error
◎	◎	●	E468	Current Sensor Error
			E474	Heatsink Sensor Error
			E485	Input Current Sensor Error
◎	●	○	E465	Comp V_limit/I_limit Error
			E500	Heatsink Over Temperature Error
◎	●	◎	E231	CON-TH(Cond Temperature) Sensor Error
◎	●	●	E203	Time out Comm. (Inv Micom<->Main Micom)
●	○	○	E458	Fan Error
●	○	◎	E471	EEPROM Data Error (Main Micom<->Inv Micom)
●	○	●	E467	Comp Wire Missing Error
●	◎	○	E440	Prohibit Operation Condition Error (Heating)
			E441	Prohibit Operation Condition Error (Cooling)
●	◎	◎	E469	DC-Link Voltage Sensor Error
			E488	AC Input Voltage Sensor Error
●	◎	●	E462	AC Input I_Limit Trip Error
●	●	○	E554	Gas Leak Error
			E422	EEV or Valve Close error-Self diagnosis
○	◎	◎	-	Test Operation at Cooling Mode
◎	◎	◎	-	Test Operation at Heating Mode

● LED ON    ○ LED OFF    ◎ LED BLINKING

### 3-3 Setting Option Setup Method

ex) Option No. :

Note :



SEG1, SEG7, SEG13, SEG19 need not to be pressed in, so in fact the Option No. we should press in is as below.

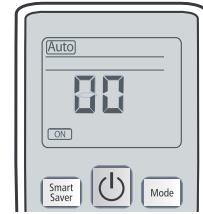
30 00 07 C2 6C 83 10 00 00 00 20 00 00 00 00 00 00 10 00 00

SEG1	SEG2	SEG3	SEG4	SEG5	SEG6	SEG7	SEG8	SEG9	SEG10	SEG11	SEG12	SEG13	SEG14	SEG15	SEG16	SEG17	SEG18	SEG19	SEG20	SEG21	SEG22	SEG23	SEG24
0	3	0	0	0	0	1	7	C	2	6	C	2	8	3	1	0	0	3	0	0	0	0	0
SEG25	SEG26	SEG27	SEG28	SEG29	SEG30	SEG31	SEG32	SEG33	SEG34	SEG35	SEG36	SEG37	SEG38	SEG39	SEG40	SEG41	SEG42	SEG43	SEG44	SEG45	SEG46	SEG47	SEG48
0	2	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	3	0	0	0	0	0

#### Step 1


















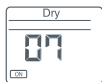








Enter the Option Setup mode.
































1. Tack out the batteries of remote control.
2. Press the temperature  button simultaneously and insert the battery again.
3. Make sure the remote control display shown as .




#### Step 2

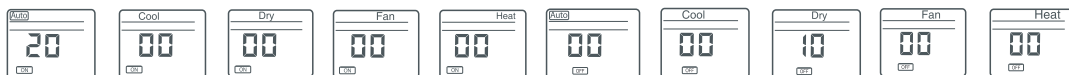
Enter the Options Setup mode and select your options according to the following procedure.

	Feature	Display
	<b>1</b> The default value is  . Every time you push the  button, the display panel reads  Auto → Cool → Dry → Fan → Heat,  Auto → Cool → Dry → Fan → Heat repeatedly.	
	<b>2</b> Push the  button to set the display panel to <b>3</b> . Every time you push the  button, the display panel reads <b>0→1→2→3→.....→9→A→b→c→d→E→F</b> repeatedly.	
	<b>3</b> Push the  button to  . Every time you push the  button, the display panel reads <b>0→1→2→3→.....→9→A→b→c→d→E→F</b> repeatedly.	
	<b>4</b> Push the  button to  . Push the  button to set the display panel to <b>7</b> . Every time you push the  button, the display panel reads <b>0→1→2→3→.....→9→A→b→c→d→E→F</b> repeatedly.	
	<b>5</b> Push the  button to  . Push the  button to set the display panel to <b>C</b> . Every time you push the  button, the display panel reads <b>0→1→2→3→.....→9→A→b→c→d→E→F</b> repeatedly.	
	<b>6</b> Push the  button to set the display panel to <b>2</b> . Every time you push the  button, the display panel reads <b>0→1→2→3→.....→9→A→b→c→d→E→F</b> repeatedly.	


	Feature	Display
	<p><b>7</b> Push the  button to  .</p> <p>Push the  button to set the display panel to <b>6</b>.</p> <p>Every time you push the  button, the display panel reads <b>0→1→2→3→.....→9→A→b→c→d→E→F</b> repeatedly.</p>	
	<p><b>8</b> Push the  button to set the display panel to <b>8</b>.</p> <p>Every time you push the  button, the display panel reads <b>0→1→2→3→.....→9→A→b→c→d→E→F</b> repeatedly.</p>	
	<p><b>9</b> Push the  button to  .</p> <p>Push the  button to set the display panel to <b>8</b>.</p> <p>Every time you push the  button, the display panel reads <b>0→1→2→3→.....→9→A→b→c→d→E→F</b> repeatedly.</p>	
	<p><b>10</b> Push the  button to set the display panel to <b>3</b>.</p> <p>Every time you push the  button, the display panel reads <b>0→1→2→3→.....→9→A→b→c→d→E→F</b> repeatedly.</p>	
	<p><b>11</b> Push the  button to  .</p> <p>Push the  button to set the display panel to <b>1</b>.</p> <p>Every time you push the  button, the display panel reads <b>0→1→2→3→.....→9→A→b→c→d→E→F</b> repeatedly.</p>	
	<p><b>12</b> Push the  button to  .</p>	
	<p><b>13</b> Push the  button to  .</p>	
<p><b>14</b> Push the  button to  .</p>		

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

Press the Mode  Selection key to set the display part and check the display part.  
 → The display part shows like below when each time you press Mode button.




































**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 "Diring" 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 deriving sound isn't heard, try again pressing the ON/OFF button.)


## Step 5

Enter the Options Setup mode and select your options according to the following procedure.

	Feature	Display
	<p>1 Step 1 (Enter the Option Setup mode) is executed. (Seg25 ~ 48 for setting remote control Setup)</p>	
	<p>2 Push the  Mode 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.</p>	
	<p>3 Push the  button to </p>	
	<p>4 Push the  button to </p>	
	<p>5 Push the  button to </p>	
	<p>6 Push the  button to </p>	
	<p>7 Push the  button to </p>	
	<p>8 Push the  button to </p>	
	<p>9 Push the  button to </p>	
	<p>10 Push the  Mode 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.</p>	
	<p>11 Push the  button to </p>	
	<p>12 Push the  button to </p>	




**Step 6** Upon completion of the selection, check you made right selections.

Press the Mode  Selection key to set the display part and check the display part.  
 → The display part shows like below when each time you press Mode button.



**Step 7** 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 deriving sound isn' t heard, try again pressing the ON/OFF button.)

**Step 8** 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 key with the direction of remote control for set.

■ Error mode

1. If all lamps of indoor unit are flickering, Plug out, plug in power plug again and press ON/OFF key to retry.
2. 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

Model	1~6	7~12	13~18	19~24	25~30	31~36	37~42	43~48
AR09JSFNCWK/ET	010005	196228	271920	372404	034449	10333E	200000	300000
AR12JSFNCWK/ET	010005	1562AA	271920	372404	034B45	104C48	200000	300000
AR09JSFNCWK/ZE	010005	196228	271920	372404	034449	10333E	200000	300000
AR12JSFNCWK/ZE	010005	1562AA	271920	372404	034B45	104C48	200000	300000