

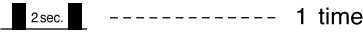

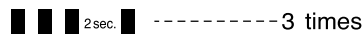

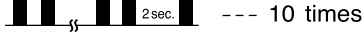
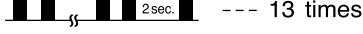


## TROUBLESHOOTING WHEN TIMER LAMP BLINKS.


MODEL RAS-D10EXR, RAS-D14EXR

Perform troubleshooting according to the number of times the indoor timer lamp.

SELF-DIAGNOSIS LIGHTING MODE

MODEL RAS-D10EXR, RAS-D14EXR

No.	Blinking of Timer lamp	Reason for indication	Possible cause
1	 1 time	<u>Reversing valve defective</u> When the indoor heat exchanger temperature is too low in the heating mode or it is too high in the cooling mode.	(1) Reversing valve defective (2) Heat exchanger thermistor disconnected (only in the heating mode) (Note) The malfunction mode is entered the 3rd time this abnormal indication appears (read every 3 minutes).
2	 2 times	<u>Outdoor unit is under forced operation</u> When the outdoor unit is in forced operation or balancing operation after forced operation	Electrical parts in the outdoor unit
3	 3 times	<u>Indoor/outdoor interface defective</u> When the interface signal from the outdoor unit is interrupted.	(1) Indoor interface circuit (2) Outdoor interface circuit
4	 9 times	<u>Room thermistor or heat exchanger thermistor is faulty</u> When room thermistor or heat exchanger thermistor is opened circuit or short circuit.	(1) Room thermistor (2) Heat exchanger thermistor
5	 10 times	<u>Over-current detection at the DC fan motor</u> when over-current is detected at the DC fan motor of the indoor unit.	(1) Indoor fan locked (2) Indoor fan motor (3) Indoor control P.W.B.
※1	6  13 times	<u>IC401 data reading error</u> When data read from IC401 is incorrect.	IC401 abnormal
※2	7  16 times	<u>Ventilation fan abnormal</u> Ventilation fan motor does not rotate	(1) Ventilation fan locked (2) Ventilation fan motor (3) Indoor control P.W.B.
※2	8  17 times	<u>Dirt sensor(Gas sensor) abnormal</u> Dirt sensor disconnection or short ckt.	(1) Dirt sensor circuit (2) Disconnection of dirt sensor connector or lead wire

(  --- Lights for 0.35 sec. at interval of 0.35 sec.)

Perform troubleshooting according to the number of times of the indoor filter lamp blink.

No.	Filter lamp blink mode	Reason of indication	Possible cause
1	2 times	Peak current cut	Reference the outdoor self diagnosis lamp blinks, to perform the troubleshooting.
2	3 times	Abnormal low speed rotation	
3	4 times	Switching failure	
4	5 times	Overload lower limit cut	
※2 5	6 times	OH thermistor temp. rise	
6	7 times	Outdoor thermistor abnormal	
7	8 times	Acceleration defective	
※2 8	9 times	Communication error	
※2 9	10 times	Abnormal power source	
10	12 times	Fan lock error	
11	13 times	Defective EEPROM of outdoor unit	

( --- Lights for 0.35 sec. at interval of 0.35 sec.)

<CAUTION>

- (1) If the indoor unit does not work at all, check the connection error or disconnection of F cable.
- (2) If the interface circuit is failed from the time the power is turned on, failure indication by lamp blinking on the indoor unit cannot be made. For diagnosis of interface circuit, use the self-diagnosis function of communication circuit or self-diagnosis memory function.
- (3) Some failure modes are displayed only when reading the self-diagnosis memory. (※2)
- (4) “Outdoor forced operation” is not stored in the self-diagnosis memory.
- (5) Remote controller operation cannot be received while the timer lamp or filter lamp is blinking. To check the operation one more time, turn off the power and turn it on again. (Except for ※1)

# SELF-DIAGNOSIS LIGHTING MODE

MODEL RAC-D10EXR, RAC-D14EXR

**⚠️ DANGER (DC350V)**

- CUT THE POWER SOURCE AND WAIT MORE THAN 10 MINUTES BEFORE SERVICE WORK.
- CONFIRM THE DC VOLTAGE AT THE MEASURING POINT SHOWN IN FIGURE MUST BE LESS THAN 10V.
- DO NOT TOUCH THE OTHER COMPONENTS WHEN OPERATING THE SERVICE SWITCH.

**SERVICE OPERATION**

PROCEDURE OF REFRIGERANT PUMP DOWN OR INDEPENDENT OPERATION OF OUTDOOR UNIT.

- CUT OFF THE POWER SOURCE ONCE THEN ON AGAIN.
- WAIT 1 MINUTE AT LEAST.
- PRESS THE SERVICE SWITCH (WHICH IS ON THE PWB) MORE THAN 1 SECOND.

SERVICE OPERATION WILL BE STARTED.

TO STOP THIS OPERATION, PRESS THE SERVICE SWITCH AGAIN (MORE THAN 1 SECOND).

TO RESUME TO NORMAL OPERATION, CUT THE POWER SOURCE ONCE THEN ON AGAIN.

IN ORDER TO PROTECT THE DAMAGE OF COMPRESSOR, DO NOT OPERATE MORE THAN 5 MINUTES WITH SERVICE VALVE CLOSE.

SELF-DIAGNOSIS LIGHTING MODE		■: LIGHT	▨: BLINK	□: OFF	
LD301	LD302	LD303	SELF-DIAGNOSIS NAME	DETAILS	MAIN CHECK POINT
			[1] DURING OPERATION	LD303 (RED) LIGHTS.	■
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NORMAL OPERATION	COMPRESSOR OPERATION	NOT MALFUNCTION
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	OVERLOAD (1)	<p>ROTATION SPEED SET VALUE TIME THE ROTATION SPEED IS AUTOMATICALLY CONTROLLED TO PROTECT THE COMPRESSOR IN THE OVERLOAD CONDITION.</p>	THIS SHOWS AN OVERLOAD PROTECTION STATUS.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	OVERLOAD (2)		NOT MALFUNCTION.
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	OVERLOAD (3)		NOT MALFUNCTION.
			[2] DURING STOP	LD303 (RED) GOES OFF.	□
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NORMAL STOP	STOPPED BY THERMOSTAT OR CONTROLLER.	NOT MALFUNCTION.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	RESET STOP	MICROPROCESSOR WAS REBOOTED. (IT IS NORMAL WHEN POWER SW HAS BEEN TURNED ON)	⊙POWER P. W. B. ⊙MAIN P. W. B.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PEAK CURRENT CUT	COMPRESSOR PEAK CURRENT WAS BEYOND MAXIMUM LIMIT.	⊙MAIN P. W. B. ⊙POWER P. W. B. ⊙COMPRESSOR
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ABNORMAL LOW SPEED ROTATION	LOST THE COMPRESSOR ROTOR POSITION.	⊙MAIN P. W. B. ⊙POWER P. W. B. ⊙COMPRESSOR
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SWITCHING FAILURE	SWITCHING FROM LOW FREQUENCY SYNC START TO POSITION DETECTION OPERATION FAILURE.	⊙MAIN P. W. B. ⊙POWER P. W. B. ⊙COMPRESSOR
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	OVERLOAD LOWER LIMIT CUT	OVERLOAD PROTECTION FUNCTION IS REQUESTING LOWER SPEED THAN MINIMUM SPEED OF COMPRESSOR.	⊙OUTDOOR UNIT IS EXPOSED TO DIRECT SUNLIGHT OR ITS AIRFLOW BLOCKED. ⊙FAN MOTOR ⊙MAIN P. W. B. ⊙THE VOLTAGE IS EXTREMELY LOW.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	OH THERMISTOR TEMP. RISE	COMPRESSOR OVERHEAT WAS DETECTED BY OH THERMISTOR.	⊙LEAK OF REFRIGERANT ⊙COMPRESSOR ⊙OH THERMISTOR CIRCUIT (MAIN P. W. B.)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	THERMISTOR ABNORMAL	ABNORMAL THERMISTOR VALUE (OPEN OR SHORT) WAS DETECTED.	⊙THERMISTOR CONNECTION OF THERMISTOR DEFECTIVE ⊙THERMISTOR CIRCUIT
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ACCELERATION FAILURE	COMPRESSOR WAS NOT ACCELERATED MORE THAN MINIMUM SPEED.	⊙LEAK OF REFRIGERANT ⊙COMPRESSOR
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	COMMUNICATIONS ERROR	COMMUNICATIONS BETWEEN INDOOR UNIT AND OUTDOOR UNIT ARE INTERRUPTED	⊙CABLE IS WRONG CONNECTED ⊙CABLE IS OPEN ⊙INTERFACE CIRCUIT OF BETWEEN INDOOR UNIT AND OUTDOOR UNIT
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ABNORMAL POWER SOURCE	ABNORMAL POWER SOURCE WAS DETECTED	⊙ABNORMAL POWER SOURCE ⊙CABLE IS WRONG CONNECTED ⊙POWER P. W. B. ⊙MAIN P. W. B.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	FAN LOCK ERROR	OUTDOOR FAN RPM IS NOT ROTATE AS INTENDED RPM	⊙FAN MOTOR ⊙FAN MOTOR CIRCUIT
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EEPROM READ ERROR	MICROCOMPUTER CANNOT READ THE DATA IN EEPROM.	⊙MAIN P. W. B.

EXAMPLE OF BLINKING (5 TIMES) 2SEC

■: LIGHTS FOR 0.25 SEC AT INTERVAL OF 0.25 SEC.

