

**2 Lighting mode self-diagnosis lamp**

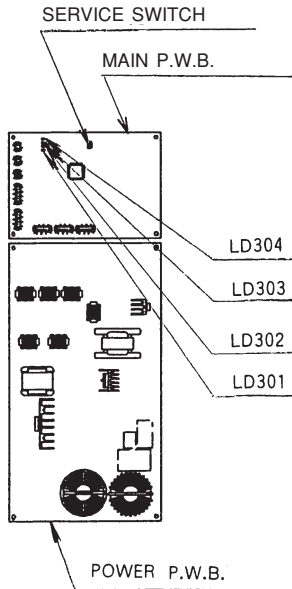
RAM-52QH5 , RAM-53QH5

**⚠️ ⚡ DANGER (DC 360V)**

● WAIT FOR TEN-MINUTE (MIN) AFTER TURNING OFF THE POWER SWITCH WHEN SERVICE WORK IS BEING DONE.

**SERVICE OPERATION**

REFRIGERANT WITHDRAWAL OR SINGLE OPERATION OF THE OUTDOOR UNIT, SHALL SWITCH OFF THE EXCLUSIVE BREAKER FIRST. PUT THE SWITCH TO ON POSITION BACK AND WAIT AT LEAST 20 SECONDS. THEN PUSH THE SERVICE SWITCH WHICH IS ON THE CIRCUIT BOARD FOR MORE THAN 1 SECOND. (THERE WILL BE A COOLING CYCLE) TO PRESERVE PARTS FROM DAMAGE, MUST NOT OPERATE IT FOR MORE THAN 5 MINUTES. TO PAUSE, PUSH THE SERVICE SWITCH AT LEAST 1 SECOND IN CASE TO START OPERATING ONCE AGAIN PLEASE SWITCH OFF THE POWER BACK.



SELF-DIAGNOSIS LIGHTING MODE				■:LIT	▨:BLINKING	□:OFF
LD301	LD302	LD303	LD304	SELF-DIAGNOSIS NAME	DETAILS	MAIN CHECK POINT
				[1] DURING OPERATION		
□	□	■	□	NORMAL OPERATION	COMPRESSOR OPERATION	NOT MALFUNCTION
■	□	■	□	OVERLOAD (1)	<p>ROTATION SPEED vs TIME</p>	THIS SHOWS AN OVERLOAD, NOT MALFUNCTION.
□	■	■	OVERLOAD (2)			
■	■	■	OVERLOAD (3)	THE ROTATION SPEED IS AUTOMATICALLY CONTROLLED TO PROTECT THE COMPRESSOR IN THE OVERLOAD CONDITION.		
				[2] DURING STOP		
□	□	□	□	NORMAL STOP	INDOOR THERMOSTAT OFF. MAIN OPERATION OFF.	NOT MALFUNCTION.
▨	□	□	□	RESET STOP	WHEN STOPPED WITH POWER RESET. (NORMAL WHEN POWER HAS BEEN TURNED ON.)	P. W. B. s (POWER CIRCUIT, MICROCOMPUTER, ETC.)
▨	□	□	□	1 TIME PEAK CURRENT CUT	OVERCURRENT IS DETECTED.	⊙COMPRESSOR ⊙P. W. B. s
▨	▨	□	□	2 TIMES		⊙SYSTEM POWER MODULE ⊙P. W. B. s
▨	▨	▨	□	2 TIMES		⊙SYSTEM POWER MODULE ⊙COMPRESSOR ⊙P. W. B. s
▨	□	□	□	3 TIMES ABNORMAL LOW SPEED ROTATION	POSITION DETECTION SIGNAL IS NOT INPUT DURING OPERATION.	⊙SYSTEM POWER MODULE ⊙COMPRESSOR ⊙P. W. B. s
▨	□	□	□	4 TIMES SWITCHING FAILURE	SWITCHING FROM LOW FREQUENCY SYNC START TO POSITION DETECTION OPERATION FAILURE.	⊙SYSTEM POWER MODULE ⊙COMPRESSOR ⊙P. W. B. s
▨	□	□	□	5 TIMES OVERLOAD LOWER LIMIT CUT	UNDER THE LOWER LIMIT OF ROTATION SPEED WITH OVERLOAD CONTROL CIRCUIT OPERATED.	⊙OUTDOOR UNIT IS EXPOSED TO DIRECT SUNLIGHT OR ITS AIRFLOW BLOCKED. ⊙FAN MOTOR ⊙FAN MOTOR CIRCUIT ⊙THE VOLTAGE IS EXTREMELY LOW.
▨	□	□	□	6 TIMES OH THERMISTOR TEMP. RISE	OH THERMISTOR OPERATED.	⊙LEAK OF REFRIGERANT ⊙COMPRESSOR ⊙OH THERMISTOR CIRCUIT ⊙FAN MOTOR ⊙FAN MOTOR CIRCUIT
▨	□	□	□	8 TIMES ACCELERATION DEFECTIVE	NO ACCELERATION OVER THE LOWER LIMIT OF THE ROTATION SPEED.	⊙LEAK OF REFRIGERANT ⊙COMPRESSOR
▨	□	□	□	10 TIMES ABNORMAL POWER VOLTAGE	POWER VOLTAGE IS ABNORMALLY LOW.	⊙POWER VOLTAGE ⊙CONNECTION OF REACTOR
▨	□	□	□	12 TIMES FAN DEFECTIVE	OUTDOOR FAN ROTATION IS ABNORMAL.	⊙OUTDOOR FAN MOTOR ⊙P. W. B. s (FUSE)
▨	□	□	□	13 TIMES EEPROM READ ERROR	MICROCOMPUTER CANNOT READ THE DATA IN EEPROM.	MAIN P. W. B.
▨	□	□	□	14 TIMES ACTIVE CONVERTER DEFECTIVE	OVERVOLTAGE IS DETECTED BY SYSTEM POWER MODULE	SYSTEM POWER MODULE
■	▨	□	□	LIT 1-9 TIMES THERMISTOR ABNORMAL	THERMISTOR IS OPEN OR SHORTED. *REFER TO THE FOLLOWING CORRESPONDENCE TABLE FOR ABNORMAL THERMISTOR*	⊙THERMISTOR ⊙CONNECTION OF THERMISTOR DEFECTIVE ⊙THERMISTOR CIRCUIT
□	□	□	▨	1 TIME COMMUNICATIONS ERROR BETWEEN INDOOR UNIT AND OUTDOOR UNIT	COMMUNICATION ERROR OF INDOOR 1	EVEN WHEN THE INDOOR UNIT IS NOT CONNECTED, IT BLINKS SIMILARLY. (NOT MALFUNCTION.)
□	□	□	▨	2 TIMES	COMMUNICATION ERROR OF INDOOR 2	
□	□	□	▨	3 TIMES	COMMUNICATION ERROR OF INDOOR 3	

\*EXAMPLE OF BLINKING (5 TIMES) ■■■■■ 2SEC ■ LIGHTS FOR 0.25 SEC AT INTERVAL OF 0.25 SEC.

**CORRESPONDENCE TABLE FOR ABNORMAL THERMISTOR**

BLINKING TIMES	ABNORMAL THERMISTOR
1 TIME	OVER HEAT THERMISTOR
2 TIMES	DEFROST THERMISTOR
3 TIMES	OUTDOOR TEMPERATURE THERMISTOR
4 TIMES	NARROW PIPE THERMISTOR (INDOOR 1)
5 TIMES	WIDE PIPE THERMISTOR (INDOOR 1)
6 TIMES	NARROW PIPE THERMISTOR (INDOOR 2)
7 TIMES	WIDE PIPE THERMISTOR (INDOOR 2)
* 8 TIMES	NARROW PIPE THERMISTOR (INDOOR 3)
* 9 TIMES	WIDE PIPE THERMISTOR (INDOOR 3)

Remark :  
 Starmark "\*" is only use for RAM-53QH5