

Simple Self-Diagnosis by Malfunction Code

Division	Detail code	0	1	2	3	4	5	6	7	8	9	A	C	E	F	H	J
Indoor Unit	A	External protection device activated	Malfunction of indoor unit PCB	/	Malfunction of drain level system	Malfunction of freezing protection	High pressure control in heating, freeze-up protection control in cooling	Malfunction of fan motor	Malfunction of swing flap motor	Malfunction of power supply or AC input overcurrent	Malfunction of electronic expansion valve	Heater overheat	Stop due to low water level	Low water level no water supply	Malfunction of a humidifier system	Malfunction of dust collector of air cleaner	Malfunction of capacity setting (Indoor unit PCB)
	C	Malfunction of sensor system (unified)	Failure of transmission (between indoor unit PCB and sub PCB)	/	Malfunction of drain level sensor	Malfunction of liquid pipe thermistor for heat exchanger	Malfunction of gas pipe thermistor for heat exchanger	Malfunction of fan motor sensor or fan control driver	Front panel driving motor fault	Malfunction of AC input current sensor system	Malfunction of suction air thermistor	Malfunction of discharge air thermistor	Malfunction of humidity sensor system	Malfunction of switch box thermistor	Malfunction of high pressure switch	/	Malfunction of thermostat sensor in remote controller
Outdoor Unit	E	Protection devices activated (unified)	Defect of outdoor unit PCB	Malfunction of cold room thermistor	Actuation of high pressure switch (HPS)	Actuation of low pressure switch (LPS)	Inverter compressor motor or overheat	STD compressor motor overcurrent/lock	Malfunction of outdoor unit fan motor system	Overcurrent of inverter compressor	Malfunction of electronic expansion valve coil	Malfunction of four way valve or cool/heat switching	Malfunction of entering water temperature	Malfunction of drain water level	Malfunction of thermal storage unit	Malfunction of cooling water pump	Actuation of option protection device
	F	/	/	/	Malfunction of discharge pipe temperature	Malfunction of suction pipe thermistor	/	Abnormal high pressure or refrigerant overcharged	/	/	/	Abnormal high pressure actuation of HPS	Abnormal low pressure	Abnormal oil pressure	Abnormal oil level or shortage of oil	Abnormal high temperature of refrigerant oil	Abnormal exhaust temperature of engine
	H	Malfunction of sensor system of compressor	Malfunction of room temperature sensor or humidifier unit damper	Malfunction of power supply sensor	Malfunction of high pressure switch (HPS)	Malfunction of low pressure switch (LPS)	Malfunction of compressor motor overload thermistor	Malfunction of position detection sensor	Malfunction of outdoor fan motor signal	Malfunction of compressor input (CT) system	Malfunction of outdoor air thermistor	Malfunction of discharge air thermistor	Malfunction of (hot) water temperature thermistor	Malfunction of drain water level sensor	Alarm in thermal storage unit or storage controller	High room temperature alarm	Malfunction of thermal storage tank water level
	J	Miswiring of thermistor	Malfunction of pressure sensor	Malfunction of current sensor of compressor	Malfunction of discharge pipe thermistor	Malfunction of low pressure equivalent saturated temperature sensor system	Malfunction of suction pipe thermistor	Malfunction of heat exchanger thermistor	Malfunction of thermistor (Refrigerant circuit)	Malfunction of thermistor (Refrigerant circuit)	Malfunction of thermistor (Refrigerant circuit)	Malfunction of high pressure sensor	Malfunction of low pressure sensor	Malfunction of oil pressure sensor or sub-tank thermistor	Malfunction of oil level sensor or heating heat exchanger thermistor	Malfunction of oil temperature thermistor	Malfunction of engine room temp. sensor or exhaust temp.
	L	Malfunction of inverter system	Malfunction of inverter PCB	/	Electrical box temperature rise	Malfunction of inverter radiating fin temperature rise	Inverter instantaneous overcurrent (DC output)	Inverter instantaneous overcurrent (AC output)	Total input overcurrent	Malfunction of overcurrent inverter compressor	Malfunction of inverter compressor startup error (Stall prevention)	Malfunction of power transistor	Malfunction of transmission between control and inverter PCB	Malfunction of igniter system	Engine startup error	Malfunction of generator converter	Engine stop
	P	Shortage of refrigerant amount (thermal storage unit)	Power voltage imbalance or inverter PCB	Automatic refrigerant charge operation stop	Malfunction of thermistor in switch box	Malfunction of radiating fin temperature sensor	Malfunction of DC current sensor	Malfunction of AC or DC output current sensor	Malfunction of total input current sensor	Heat exchanger freezing protection during automatic refrigerant charging	Automatic refrigerant charge operation completed	Refrigerant cylinder during automatic refrigerant charging	Refrigerant cylinder during automatic refrigerant charging	Automatic refrigerant charge operation nearly completed	Malfunction of starter actuation	Refrigerant cylinder during automatic refrigerant charging	Improper combination between inverter and fan driver
	R	Shortage of refrigerant	Reverse phase, open phase	Malfunction of power supply or instantaneous power failure	Check operation not executed or transmission error	Malfunction of transmission between indoor and outdoor unit	Malfunction of transmission between indoor unit and remote controller	Malfunction of transmission between indoor units	Malfunction of transmission between outdoor units or outdoor storage unit	Malfunction of transmission between remote controllers	Malfunction of transmission (other system)	Improper combination of indoor and outdoor units	Malfunction of setting of centralized controller address	Malfunction of transmission between indoor unit and centralized controller	Wiring and piping mismatch	Malfunction of system	Malfunction of transmission (accessory device)
System	U	/	Malfunction of centralized remote controller PCB	/	/	/	/	/	Malfunction of transmission between optional controllers for centralized control	/	Improper combination of optional controllers for centralized control	Address duplication, improper setting	/	/	/	/	
	M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
Others	6	External protection device activated (HRV)	Malfunction of PCB	Ozone density abnormal	Contaminated sensor error	Malfunction of thermistor for indoor air (HRV)	Malfunction of thermistor for outdoor air (HRV)	Supply air passage closed	Exhaust air passage closed	Malfunction of dust collection unit (HRV)	/	Malfunction of damper system (HRV)	Replace the humidify element	Replace the deodorising catalyst	Simplified remote controller malfunction (HRV)	Door switch open (HRV)	Replace the high efficient filter
	7	System No. 2 Compressor overheat	System No. 2 Compressor overcurrent	System No. 2 Fan motor overcurrent	System No. 2 Actuation of high pressure switch (HPS)	System No. 2 Actuation of low pressure switch (LPS)	System No. 2 Malfunction of low pressure sensor	System No. 2 Malfunction of high pressure sensor	System No. 1 Malfunction of fan inter lock	System No. 2 Malfunction of fan inter lock	/	System No. 2 Malfunction of compressor current sensor	Malfunction of pump inter lock	/	/	/	
	8	Malfunction of entering water temperature thermistor	Malfunction of leaving water temperature thermistor or drain pipe heater	System No. 1 Malfunction of refrigerant thermistor	System No. 2 Malfunction of refrigerant thermistor	System No. 1 Malfunction of heat exchanger thermistor	System No. 2 Malfunction of heat exchanger thermistor	System No. 1 Malfunction of discharge pipe thermistor	/	System No. 2 Malfunction of discharge pipe temperature	Malfunction of brazed-plate heat exchanger freezing	Malfunction of dehumidification or leaving water temperature thermistor	/	System No. 1 Malfunction of suction pipe thermistor 1 for heating	System No. 1 Malfunction of suction pipe thermistor 2 for heating	Abnormal hot water high temperature	
	9	Abnormal chilled water quantity or abnormal AXP	System No. 2 Malfunction of electronic expansion valve	System No. 2 Malfunction of suction pipe thermistor	/	Malfunction of transmission (between heat reclaim ventilation unit and fan unit)	System No. 1 Malfunction of inverter system	System No. 2 Malfunction of inverter system	Malfunction of thermal storage unit	Malfunction of thermal storage brine pump	Malfunction of thermal storage brine tank	/	System No. 2 Malfunction of suction pipe thermistor 1 for heating	System No. 2 Malfunction of suction pipe thermistor 2 for heating	/	/	

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Malfunction code	Malfunction Contents	Supposed causes	Objects					
			RA	SkyAir	VRV	Package	HRV	Chiller
A0	External protection device activated	External protection device connected to the terminal strip T1-T2 of indoor unit is activated		○	○	○		
A1	Malfunction of indoor unit PCB	Malfunction due to noise Defect of indoor unit PCB	○	○	○	○		
A3	Malfunction of drain level control system	Drain piping clogging, improper drain piping work Defect of drain pump Defect of float switch	○	○	○			
A4	Malfunction of freezing protection	Shortage of water volume Low water temperature setting Defect of 26WL Defect of water temperature thermistor						○
A5	High pressure control in heating, freeze-up protection control in cooling	Clogged air filter of indoor unit and short-circuit Defect of indoor unit heat exchanger thermistor	○					
A6	Fan motor locked, overload, overcurrent	Defect of connector contact Defect of fan motor Defect of indoor unit PCB	○	○	○	○		
A7	Malfunction of swing flap motor	Failure of swing flap motor Defect of indoor unit PCB Jammed swing mechanism/blade		○	○			
A8	Malfunction of power supply	Overcurrent of AC input Defect of power supply voltage		○	○			
A9	Malfunction of electronic expansion valve drive	Defect of electronic expansion valve coil Defect of indoor unit PCB Defect of connector contact				○	○	
AA	Heater overheat	26WH is activated						○
AF	Malfunction of a humidifier system	Water leakage of humidifier (option) Failure of swing float switch Improper drain piping incline		○	○			
AH	Malfunction of dust collector of air cleaner	Defect of dust collecting element Stained insulator part Defect of high voltage power supply unit Defect of indoor unit PCB	○	○	○			
AJ	Malfunction of capacity setting (Indoor unit PCB)	Capacity setting adaptor is not installed when replacing PCB Defect of indoor unit PCB		○	○	○		
C1	Failure of transmission (between indoor unit PCB and fan PCB)	Defect of transmission of fan motor control driver		○	○			
C4	Malfunction of liquid pipe thermistor for heat exchanger	Defect of connector contact Defect of liquid pipe thermistor for heat exchanger	○	○	○	○		
C5	Malfunction of gas pipe thermistor for heat exchanger	Defect of connector contact Defect of gas pipe thermistor for heat exchanger	○		○	○		
C6	Malfunction of fan motor control driver	Defect of fan motor sensor system Defect of fan motor control driver			○	○		
C7	Front panel driving motor fault	Defect of front panel driving motor Defect of limit switch	○					
C9	Malfunction of suction air thermistor	Defect of connector contact Defect of thermistor for suction air	○	○	○	○		
CA	Malfunction of discharge air thermistor	Defect of connector contact Defect of thermistor for discharge air				○	○	
CC	Malfunction of humidity sensor system	Defect of connector contact Defect of humidity sensor	○	○				
CD	Malfunction of thermostat sensor in remote controller	Defect of remote controller thermistor Malfunction due to noise Defect of remote controller PCB		○	○	○		
ED	Protection devices actuated (unified)	Protection device connected to outdoor PCB actuated Defect of protection device connector contact		○	○			○
E1	Defect of outdoor unit PCB	Malfunction due to noise Defect of outdoor unit PCB	○	○	○	○		○
E3	Actuation of high pressure switch (HPS)	Dirty outdoor unit heat exchanger and suction filter Defect of HPS Clogged refrigerant piping Defect of connector contact	○	○	○	○		
E3	System No.1 Actuation of high pressure switch (HPS)	Dirty outdoor unit heat exchanger Shortage of water volume Clogged refrigerant piping Defect of connector contact Defect of HPS						○

Malfunction code	Malfunction Contents	Supposed causes	Objects					
			RA	SkyAir	VRV	Package	HRV	Chiller
E4	Actuation of low pressure switch (LPS)	Clogged refrigerant piping Shortage of gas Defect of connecting connector Defect of outdoor unit PCB		○	○	○		○
E5	Overheat of inverter compressor motor	Shortage of refrigerant amount Defect of connector contact Leakage of four way valve	○					○
E5	Inverter compressor motor lock	Inverter compressor lock Incorrect wiring		○	○	○		
E6	STD compressor motor overcurrent/lock	Closed stop valve STD compressor lock	○	○	○	○		
E6	System No.1 Compressor overcurrent	Defect of EXP. valve Shortage of refrigerant amount Defect of compressor						○
E7	Malfunction of outdoor unit fan motor	Faulty contact of fan motor connector Defect of fan motor Defect of fan motor driver	○	○	○	○		○
E8	Overcurrent of inverter compressor	Defect of compressor Defect of outdoor unit PCB Defect of inverter main circuit capacitor Defect of power transistor	○					
E9	Malfunction of electronic expansion valve coil	Defect of electronic expansion valve Defect of connector contact Defect of outdoor unit PCB		○	○	○		○
EA	Malfunction of four way valve	Defect of four way valve Shortage of gas Defect of outdoor unit PCB Defect of thermistor	○					
EC	Malfunction of entering water temperature	Malfunction of cooling water temperature Defect of thermistor Defect of outdoor unit PCB			○			
EF	Malfunction of thermal storage unit	Defect of electronic expansion valve of thermal storage unit Defect of thermal storage PCB			○			
F3	Malfunction of discharge pipe temperature	Shortage of gas Clogged refrigerant piping Defect of connector contact Defect to discharge pipe thermistor	○	○	○	○		○
F6	Abnormal high pressure in cooling	Defect of outdoor unit fan motor Defect of electronic expansion valve Defect of heat exchanger thermistor Defect of outdoor unit PCB	○					
F6	Refrigerant overcharged	Refrigerant overcharged Disconnection of outdoor air thermistor Disconnection of heat exchanger thermistor Disconnection of liquid pipe thermistor			○	○		
HD	Malfunction of sensor system of compressor	Harness is disconnected, or defective connection Defect of PCB	○					
H1	Malfunction of humidifier unit damper	Defect of limit switch Defect of damper	○					
H3	Malfunction of high pressure switch (HPS)	Defect of high pressure switch Broken wire Defect of connector contact Defect of outdoor unit PCB	○	○	○	○		
H4	Malfunction of low pressure switch (LPS)	Defect of low pressure switch Broken wire Defect of connector contact Defect of outdoor unit PCB		○	○			
H5	Malfunction of compressor motor overload thermistor	Defect of connector contact Defect of compressor motor overload thermistor	○					
H6	Malfunction of position detection sensor	Faulty contact of compressor cable Defect of compressor Defect of outdoor unit PCB	○					
H7	Malfunction of outdoor fan motor signal	Faulty contact of fan wiring Defect of fan motor Defect of fan motor driver		○	○	○		
H8	Malfunction of compressor input (CT) system	Defect of power transistor Defect of reactor Faulty wiring of inverter system Defect of outdoor unit PCB	○					
H9	Malfunction of outdoor air thermistor	Defect of connector contact Defect of thermistor for outdoor air	○	○	○	○		○
HC	Malfunction of (hot) water temperature thermistor	Defect of connector contact Defect of outdoor unit PCB Defect of thermistor for water temperature		○	○			
HF	Alarm in thermal storage unit with ice	Thermal storage group defective wiring Defect of setting Excess of thermal storage tank numbers		○	○			
HJ	Malfunction of thermal storage tank water level	Low water level Defect of switch setting Water level detecting sensor failure Defect of connector contact		○	○			

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Malfunction code	Malfunction Contents	Supposed causes	Objects					
			RA	SkyAir	VRV	Package	HRV	Chiller
J1	Malfunction of pressure sensor	Defect of pressure sensor connector contact Defect of pressure sensor Defect of outdoor unit PCB		○	○			
J2	Malfunction of current sensor of compressor	Defect of current sensor Defect of outdoor unit PCB		○	○	○		○
J3	Malfunction of discharge pipe thermistor	Defect of connector contact Defect of outdoor unit PCB	○	○	○	○		○
J4	Malfunction of low pressure equivalent saturated temperature sensor system	Defect of connector contact Defect of outdoor unit PCB (Multi-split, Super-multi)	○					
J5	Malfunction of suction pipe thermistor	Defect of connector contact Defect of outdoor unit PCB	○	○	○	○		○
J6	Malfunction of heat exchanger thermistor	Defect of connector contact Defect of outdoor unit PCB	○	○	○	○		○
J7	Malfunction of liquid pipe thermistor (Refrigerant circuit and others)	Defect of connector contact Defect of outdoor unit PCB		○	○			○
J8	Malfunction of liquid pipe thermistor (Refrigerant circuit and others)	Defect of connector contact Defect of outdoor unit PCB		○				
J9	Malfunction of gas pipe thermistor (Refrigerant circuit and others)	Defect of connector contact Defect of outdoor unit PCB	○	○	○	○		
JR	Malfunction of high pressure sensor	Defect of connector contact Defect of outdoor unit PCB		○	○	○		○
JE	Malfunction of low pressure sensor	Defect of connector contact Defect of outdoor unit PCB		○	○	○		○
JE	Malfunction of sub-tank thermistor	Defect of connector contact Defect of outdoor unit PCB			○			
JF	Malfunction of heating thermistor for heat exchanger	Defect of connector contact Defect of outdoor unit PCB			○			
JH	Malfunction of oil temperature thermistor	Defect of connector contact Defect of outdoor unit PCB			○			
L0	Malfunction of inverter system	Shortage of power supply capacity Defect of inverter PCB			○			
L1	Malfunction of inverter PCB	Defect of compressor wiring Blown fuse Defect of outdoor unit fan motor Defect of inverter PCB		○	○			
L3	Electrical box temperature rise	Fin temperature rise due to short-circuit Defect of power transistor Defect of outdoor unit fan Defect of outdoor unit PCB	○					
L4	Malfunction of inverter radiating fin temperature rise	Fin temperature rise due to short-circuit Defect of fin thermistor	○	○	○	○		
L5	Inverter instantaneous overcurrent (DC)	Closed stop valve Defect of compressor	○	○	○	○		
L6	Inverter instantaneous overcurrent (AC)	Overcharge of refrigerant amount Defect of compressor Shortage of power supply capacity Defect of inverter unit			○			
L8	Overcurrent of inverter compressor	Abnormal high pressure rise due to clogged refrigerant circuit and others Defect of compressor		○	○	○		
L9	Malfunction of inverter compressor startup	Faulty of pressure equalization Defect of compressor wiring Defect of compressor		○	○	○		
LR	Malfunction of power transistor	Defect of power transistor Defect of inverter PCB			○			
LE	Malfunction of transmission between outdoor unit PCB and micro-computer	Defect of grounding connection Defect of outdoor unit PCB	○					
LE	Malfunction of transmission between control and inverter PCB	Defect of connector contact Defect of inverter PCB Malfunction due to noise		○	○	○		
PG	Shortage of refrigerant amount (thermal storage unit)	Shortage of refrigerant Clogged refrigerant piping			○			

Malfunction code	Malfunction Contents	Supposed causes	Objects					
			RA	SkyAir	VRV	Package	HRV	Chiller
P1	Power voltage imbalance, open phase	Open phase Voltage imbalance between phases Faulty main circuit capacitor Defect of wiring contact		○	○	○		○
P2	Automatic refrigerant charge operation stop	Closed stop valve Closed valve of refrigerant tank			○	○		
P3	Malfunction of thermistor in electrical box	Electrical box temperature rise (ambient temperature rise) Defect of fin thermistor Defect of outdoor unit PCB	○	○				
P4	Malfunction of radiating fin temperature sensor	Defect of radiating fin thermistor Defect of wiring contact Defect of outdoor unit PCB	○	○	○	○		
P8	Heat exchanger freezing protection during automatic refrigerant charging	(Close the refrigerant cylinder. Start again from step 1.)			○	○		
P9	Malfunction of fan motor (humidifier unit)	Defect of fan motor Defect of outdoor unit PCB Broken relay harness Defect of connector contact	○					
P9	Automatic refrigerant charge operation completed	—			○	○		
PR	Broken wire of heater (humidifier unit)	Defect of heater unit Defect of thermistor Defect of outdoor unit PCB	○					
PR	Empty refrigerant cylinder during automatic refrigerant charging	Refrigerant cylinder of master unit is empty			○	○		
PC	Empty refrigerant cylinder during automatic refrigerant charging	Refrigerant cylinder of slave unit 2 is empty			○	○		
PE	Automatic refrigerant charge operation nearly completed	—			○	○		
PH	Malfunction of temperature (humidifier unit)	Defect of heater unit Defect of connector contact Defect of thermistor Defect of outdoor unit PCB	○					
PH	Empty refrigerant cylinder during automatic refrigerant charging	Refrigerant cylinder of slave unit 1 is empty			○	○		
PJ	Malfunction of capacity setting (Outdoor unit PCB)	Capacity setting adaptor is not installed Defect of outdoor unit PCB Improper capacity setting adaptor		○				
PJ	Improper combination between inverter and fan driver	Mistake of inverter PCB Mistake of inverter fan PCB Mistake of control PCB			○	○		
U0	Shortage of refrigerant	Shortage of refrigerant Clogged refrigerant piping Closed stop valve	○	○	○	○		○
U1	Reverse phase, open phase	Reverse phase, open phase of power wiring Wrong wiring Defect of outdoor unit PCB	○	○	○	○		○
U2	Defect of power supply voltage or instantaneous power failure	Defect of power supply voltage Instantaneous power failure Defect of wiring contact	○	○	○	○		
U3	Check operation not executed	Check operation not executed			○	○		
U3	Malfunction of transmission	Malfunction due to noise Wrong wiring Defect of outdoor unit PCB						○
U4	Malfunction of transmission between indoor and outdoor unit	Defect or indoor-outdoor transmission wiring Malfunction due to noise Defect of indoor unit PCB and outdoor unit PCB	○	○	○	○		○
U5	Malfunction of transmission between indoor unit and remote controller	Defect of remote controller wiring Defect of indoor unit PCB Malfunction due to noise Defect of remote controller main/sub setting	○	○	○	○		○
U6	Malfunction of transmission between indoor units	Faulty wiring Malfunction due to noise Defect of indoor unit PCB			○			
U7	Malfunction of transmission between main body micro-computer - INV micro-computer	Harness disconnection/broken wire between PCB Defect of outdoor unit PCB	○					
U7	Malfunction of transmission between outdoor units	Defect of wiring between outdoor units Defect of outdoor unit switch setting Defect of wiring between outdoor - thermal storage units			○	○		○
U8	Malfunction of transmission between remote controllers	Defect of remote controller main/sub setting Defect of remote controller wiring Defect of remote controller PCB		○	○	○	○	

Outdoor Unit

Outdoor Unit

System

Simple Self-Diagnosis by Malfunction Code

Malfunction code	Malfunction Contents	Supposed causes	Objects							
			RA	SkyAir	VRV	Package	HRV	Chiller		
System	U9	Malfunction of transmission (other system)	Defect of communication between other indoor unit and outdoor unit Other indoor unit electronic expansion valve failure							
	UR	Defect of indoor/outdoor power supply	Wrong model connections Wrong PCB connected	Improper power supply Defect of PCB	○					
	UR	Malfunction of field setting	Malfunction of field setting by remote controller Defect of remote controller wiring Defect of indoor unit PCB Defective connection of optional device		○					
	UR	Improper combination of indoor and outdoor units	Excess of connected indoor units Uncanceled service mode	Malfunction of field setting Defect of outdoor unit PCB		○	○	○		
	UR	Remote temperature setting wire disconnection	Remote temperature setting wire disconnection Defect of connector contact							○
	UE	Malfunction of setting of centralized controller address	Address duplication of centralized controller			○	○	○		
	UE	Malfunction of transmission between indoor unit and centralized controller	Malfunction of wiring between indoor unit and centralized controller Defect of setting of group number Defect of indoor unit PCB			○	○	○	○	○
	UF	Wiring and piping mismatch	Improper connection of transmission wiring between indoor-outdoor units and outdoor-outdoor units			○	○	○		
	UH	Malfunction of system	Improper connection of transmission wiring between indoor-outdoor units and outdoor-outdoor units Defect of indoor and outdoor unit PCB (RA: Mismatching indoor and outdoor units, Defect of voltage, Freeze protection in other indoor unit)		(○)		○	○		
	UU	Malfunction of transmission (Accessory devices)	Defect of accessory devices Faulty wiring				○			○
	M1	Malfunction of centralized remote controller PCB	Defect of centralized remote controller PCB		○	○	○	○	○	○
	M8	Malfunction of transmission between optional controllers for centralized control	Other centralized control power disconnection Defect of transmission wiring	Centralized control reset switch ON Central remote controller address change	○	○	○	○	○	○
	MR	Improper combination of optional controllers for centralized control	Improper combination of optional controllers for centralized control More than one master controller is connected Faulty setting of centralized control Defect of centralized control		○	○	○	○	○	○
MC	Address duplication, improper setting	Address duplication of central remote controller setting		○	○	○	○	○	○	
Others	80	External protection device actuated	Actuation of external protection device Defect of output signal wiring Defect of control PCB							○
	84	Malfunction of indoor air thermistor	Defect of connecting connector Defect of control PCB	Defect of thermistor for indoor air						○
	85	Malfunction of outdoor air thermistor	Defect of connector contact Defect of control PCB	Defect of outdoor air thermistor						○
	8A	Malfunction of damper system	Defect of connector contact Defect of damper motor	Defect of limit switch Defect of control PCB						○
	70	System No. 2 Compressor overload	Shortage of refrigerant amount Leakage of four way valve							○
	71	System No. 2 Compressor overcurrent	Shortage of refrigerant amount Defect of compressor							○
	72	System No. 2 Fan motor overcurrent	Defect of fan motor connector contact Defect of fan motor							○
	73	System No. 2 Malfunction of high pressure (HPS) actuated	Dirty heat exchanger Clogged refrigerant piping Defect of HPS	Shortage of water volume Defect of connector contact						○
	74	System No. 2 Malfunction of low pressure switch (LPS)	Clogged refrigerant piping Shortage of gas	Defect of connector contact Defect of LPS						○
	75	System No. 2 Malfunction of low pressure sensor	Defect of connector contact Defect of PCB	Defect of low pressure sensor						○
	76	System No. 2 Malfunction of high pressure sensor	Defect of connector contact Defect of PCB	Defect of high pressure sensor						○

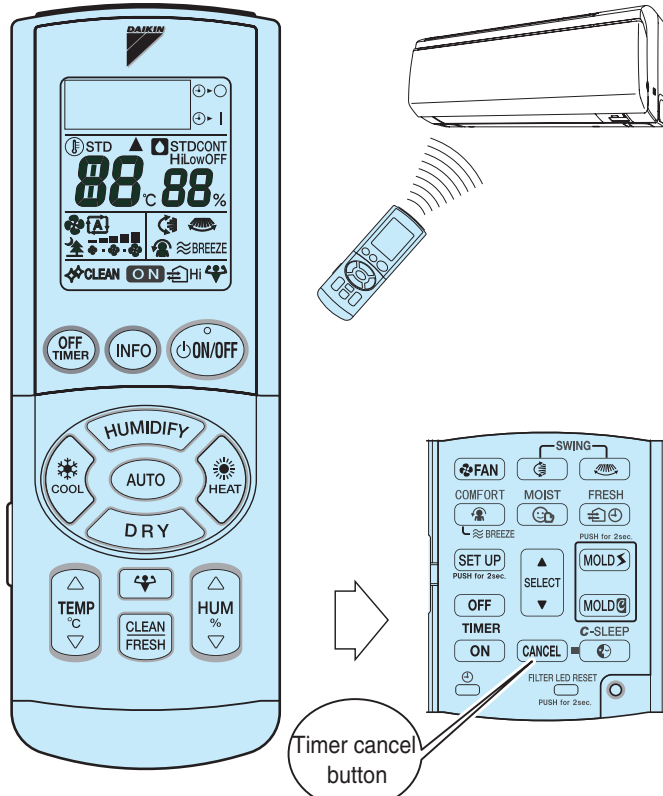
Malfunction code	Malfunction Contents	Supposed causes	Objects							
			RA	SkyAir	VRV	Package	HRV	Chiller		
Others	77	System No. 1 Malfunction of fan inter lock	Defect of relay contact Broken wire							○
	78	System No. 2 Malfunction of fan inter lock	Defect of relay contact Broken wire							○
	7A	System No. 2 Malfunction of current sensor of compressor	Defect of current sensor Defect of outdoor unit PCB	Defect of compressor						○
	7C	System No. 2 Malfunction of pump inter lock	Cooling water pump interlock actuated							○
	80	Malfunction of entering water temperature thermistor	Defect of connector contact Defect of entering water temperature thermistor							○
	81	Malfunction of leaving water temperature thermistor	Defect of connector contact Defect of leaving water temperature thermistor							○
	82	System No. 1 Malfunction of refrigerant thermistor	Defect of connector contact Defect of refrigerant thermistor							○
	83	System No. 2 Malfunction of refrigerant thermistor	Defect of connector contact Defect of refrigerant thermistor							○
	84	System No. 1 Malfunction of heat exchanger thermistor	Defect of connector contact Defect of heat exchanger thermistor							○
	85	System No. 2 Malfunction of heat exchanger thermistor	Defect of connector contact Defect of heat exchanger thermistor							○
	86	System No. 2 Malfunction of discharge pipe thermistor	Defect of connecting connector Defect of discharge pipe thermistor							○
	88	System No. 2 Malfunction of discharge pipe temperature	Shortage of gas Defect of connector contact	Defect of discharge pipe thermistor Clogged refrigerant piping						○
	89	Malfunction of brazed-plate heat exchanger freezing	Dirty heat exchanger Shortage of refrigerant amount Defect of thermistor							○
	8A	System No. 2 Malfunction of leaving water temperature thermistor	Defect of connector contact Defect of leaving water temperature thermistor							○
	8E	System No. 1 Malfunction of suction pipe thermistor 1 for heating	Defect of connector contact Defect of suction pipe thermistor							○
	8F	System No. 1 Malfunction of suction pipe thermistor 2 for heating	Defect of connector contact Defect of suction pipe thermistor							○
	8H	Abnormal high hot water temperature	Three-way valve malfunction Defect of water temperature setting							○
	90	Abnormal chilled water quantity, abnormal AXP	Shortage of water volume Disconnection of AXP							○
	91	System No. 2 Malfunction of electronic expansion valve	Defect of connector contact Defect of electronic expansion valve coil							○
	92	System No. 2 Malfunction of suction pipe thermistor	Defect of connector contact Defect of suction pipe thermistor							○
	94	Malfunction of transmission (between heat reclaim ventilation unit and fan unit)	Defect of fan unit PCB Defect of connecting wire between (1) and (2)							○
	95	System No. 1 Malfunction of inverter system	Defect of fan inverter unit							○
	96	System No. 2 Malfunction of inverter system	Defect of fan inverter unit							○
	97	Malfunction of thermal storage unit	Defect of thermal storage unit							○
	98	Malfunction of thermal storage brine pump	Actuation of thermal storage brine pump overcurrent (OC)							○
	99	Malfunction of thermal storage brine tank	Low water level of thermal storage brine tank							○

Self-Diagnosis by Remote Controller (Residential Air-conditioner)

In case of ARC447A

[Check Method]

With the wireless remote controller supplied with the unit, or sold separately, malfunction codes by failure diagnosis can be confirmed. (Press timer cancel button down for 5 seconds continuously.)



1. Hold the timer cancel button down for 5 seconds, with the remote controller set toward the indoor unit.
2. The temperature display on the remote controller changes to the error code display and a long beep notifies this indication change.

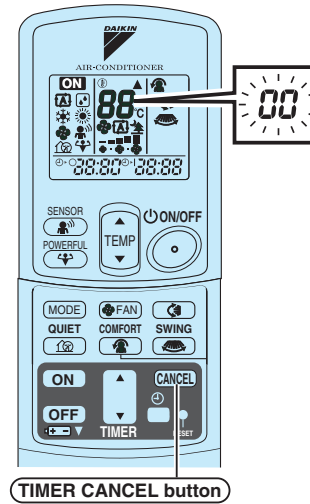
Note:

To cancel indication of malfunction code, hold the timer cancel button down for 5 seconds. The code display also cancels itself if the button is not pressed for 1 minute.

In case of ARC455A, ARC452A, ARC433B, ARC423A, ARC417A

[Check Method 1]

1. When the timer cancel button is held down for 5 seconds, a "00" indication flashes on the temperature display section.
 - The code indication changes in the sequence shown below, and notifies with a long beep.
2. Press the timer cancel button repeatedly until a continuous beep is produced.



<In case of ARC433B67, 68, 69, 76>

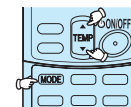
No.	Code	No.	Code	No.	Code
1	00	12	E7	23	H0
2	U4	13	H8	24	E1
3	F3	14	J3	25	P4
4	E6	15	R3	26	L3
5	L5	16	R1	27	L4
6	R6	17	E4	28	H6
7	E5	18	E5	29	H7
8	F6	19	H9	30	U2
9	E9	20	J6	31	U4
10	U0	21	U8	32	E8
11	E7	22	R5	33	R4

Note:

1. A short beep and two consecutive beeps indicate non-corresponding codes.
2. To cancel the code display, hold the timer cancel button down for 5 seconds. The code display also cancels itself if the button is not pressed for 1 minute.

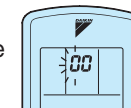
[Check Method 2]

1. Press the 3 buttons (TEMP ▲, TEMP ▼, MODE) simultaneously to enter the diagnosis mode.

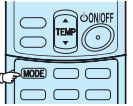
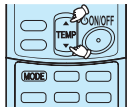


The figure of the ten's place blinks.

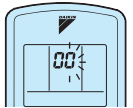
- ★ Try again from the start when the figure does not blink.



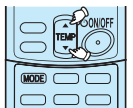
2. Press TEMP ▲ or ▼ button and change the figure until you hear the sound of "beep" or "pi pi".
3. Diagnose by the sound.
 - ★ "pi" : The figure of the ten's place does not accord with the malfunction code.
 - ★ "pi pi" : The figure of the ten's place accords with the error code but the one's not.
 - ★ "beep" : The both figures of the ten's and one's place accord with the malfunction code.
4. Press the MODE button.



The figure of the one's place blinks.

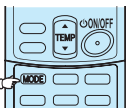


5. Press the TEMP button. Press TEMP ▲ or ▼ button and change the figure until you hear the sound of "beep".



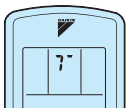
6. Diagnose by the sound.
 - ★ "pi" : The figure of the ten's place does not accord with the malfunction code.
 - ★ "pi pi" : The figure of the ten's place accords with the error code but the one's not.
 - ★ "beep" : The both figures of the ten's and one's place accord with the error code.

7. Determine the malfunction code. The digits indicated when you hear the "beep" sound are error code.



8. Press the MODE button to exit from the diagnosis mode.

The display "7-" means the trial operation mode.



9. Press the ON/OFF button twice to return to the normal mode.



Note:

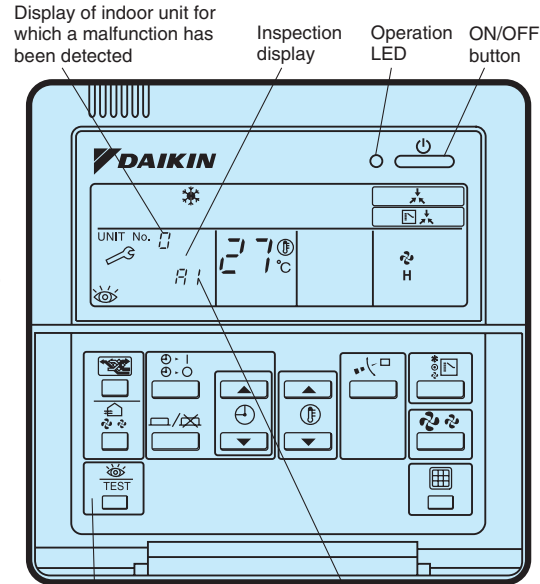
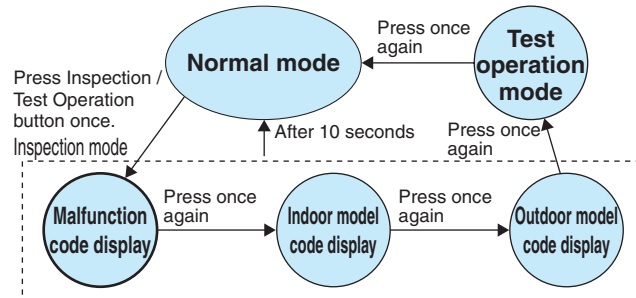
When the remote controller is left untouched for 60 seconds, it returns to the normal mode.

Self-Diagnosis by Remote Controller (SkyAir, VRV)

<Wired Remote Controller>

In case of BRC1C62

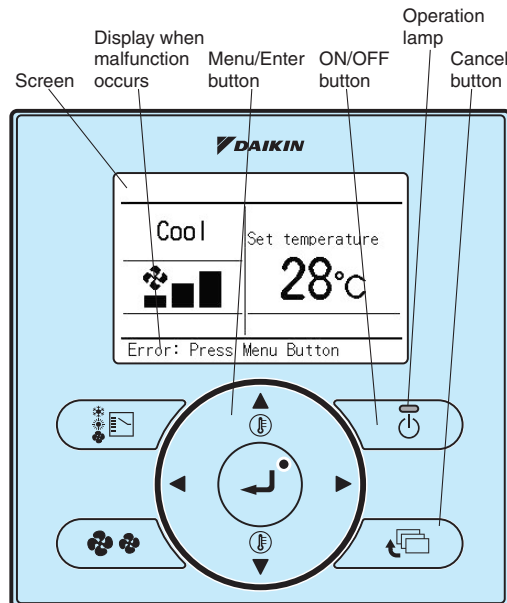
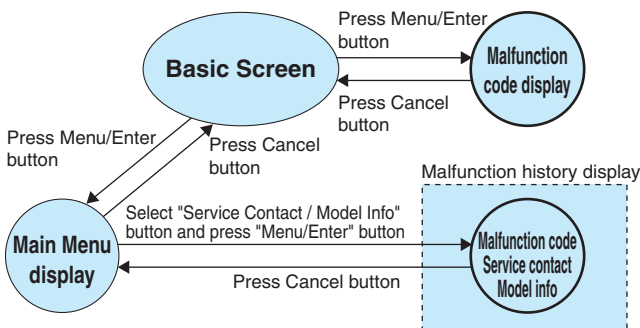
- If operation stops due to malfunction, the remote controller's operation LED blinks, and malfunction code is displayed.
- Even if stop operation is carried out, malfunction contents are displayed when the inspection mode is entered.
 - * While in check mode, pressing and holding the ON/OFF button for a period of four seconds or more will clear the malfunction history. (The malfunction code will blink, and the operation mode will switch from check mode to normal mode.)



Inspection/Test button Malfunction code
* Location of buttons is depend on model type.

In case of BRC1E61

- If operation stops due to malfunction, the remote controller's operation indicator blinks. The message "Error: Press Menu Button" will appear at the bottom of the screen.
- Press "Menu/Enter" button, malfunction code will be displayed.
 - * Press "Menu/Enter" button, malfunction history is displayed in "Main Menu" mode.



* While in malfunction code display mode on the left, pressing "ON/OFF" button for a period of four seconds or more will clear the malfunction history.

<Wireless Remote Controller>

- If equipment stops due to a malfunction, the operation indicating LED on the light reception section flashes.
- The malfunction code can be determined by following the procedure described below.

- Press the INSPECTION/TEST button to select "Inspection."
 - The equipment enters the inspection mode. The "Unit" indication lights and the Unit No. display shows flashing "00" indication.
- Set the Unit No.
 - Press the UP or DOWN button and change the Unit No. display until the buzzer (*1) is generated from the indoor unit.
 - *1 Number of beeps

3 short beeps : Conduct all of the following operations.
1 short beep : Conduct steps 3 and 4. Continue the operation in step 4 until a buzzer remains ON. The continuous buzzer indicates that the malfunction code is confirmed.

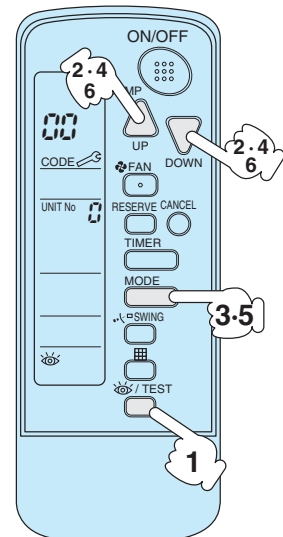
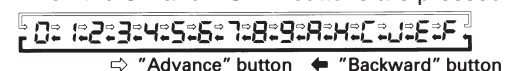
Continuous beep : No abnormality.
 3. Press the MODE selector button. The left "0" (upper digit) indication of the malfunction code flashes.

- Malfunction code upper digit diagnosis
 - Press the UP or DOWN button and change the malfunction code upper digit until the malfunction code matching buzzer (*2) is generated.
 - The upper digit of the code changes as shown below when the UP and DOWN buttons are pressed.



*2 Number of beeps
Continuous beep : Both upper and lower digits matched. (Malfunction code confirmed)
2 short beeps : Upper digit matched.
1 short beep : Lower digit matched.

- Press the MODE selector button. The right "0" (lower digit) indication of the malfunction code flashes.
- Malfunction code lower digit diagnosis
 - Press the UP or DOWN button and change the malfunction code lower digit until the continuous malfunction code matching buzzer (*2) is generated.
 - The lower digit of the code changes as shown below when the UP and DOWN buttons are pressed.



* Location of buttons is depend on model type.

