DAIKIN

Simple Self-Diagnosis by Malfunction Code

DAIKIN INDUSTRIES, LTD.
After Sales Service Division
(SM-TS3)

RA, SkyAir, *VRV*, PA, and Heat Reclaim Ventilator

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		Drain Level Control System Abnormality	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		Room temperature thermistor in remote controller abnormality
Outdoor Unit	E	Protection devices activated (unified)	Defective outdoor unit PCB	Missing of earth leakage detection core	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 switchin	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	Wet alarm		Abnormal high pressure or refrigerant overcharged				Abnormal high pressure actuation of HPS		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 unit 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 temperature sensor or exhaust temperature
	L	Malfunction of inverter system	Malfunction of inverter PCB		El.compo. box temperature rise	Malfunction of inverter radiation 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 radiation 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
System	U	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 control equipment address	Malfunction of transmission between indoor unit and centralized control equipment	System is not set yet	Malfunction of system	Malfunction of transmission (accessory device)
	M		Malfunction of central remote controller PCB							Malfunction of transmission between optional controllers for centralized control		Improper combination of optional controllers for centralized control	Address duplication, improper setting				
Others	6	External protection device activated (Heat reclaim ventilator)	Malfunction of PCB	Ozone density abnormal	Contaminated sensor error	Malfunction of indoor air thermistor (Heat reclaim ventilator)	Malfunction of outdoor air thermistor (Heat reclaim ventilator)	Supply air passage closed	Exhaust air passage closed	Malfunction of dust collection unit (Heat reclaim ventilator)		Malfunction of damper system (Heat reclaim ventilator)	Replace the humidify element	Replace the deodorising catalyst	Simplified remote controller malfunction (Heat reclaim ventilator)	Door switch open (Heat reclaim ventilator)	Replace the high efficient filter
	8									Micro-computer initialization							
	9					Malfunction of transmission (between heat reclaim ventilator and fan unit)											

Chiller

Division	Detail code	0	1	2	3	4	5	6	7	8	9	A	C	E	F	H	J
Indoor Unit	A		Malfunction of indoor unit PCB			Malfunction of freezing protection					Malfunction of electronic expansion valve	Malfunction of electronic expansion valve					
	C					Malfunction of liquid pipe thermistor for heat exchanger	Malfunction of gas pipe thermistor for heat exchanger										
Outdoor Unit	E	Protection devices activated (unified)	Defect of outdoor unit PCB	Missing of earth leakage detection core	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						
	F				Malfunction of discharge pipe temperature								Abnormal high pressure actuation of HPS				
	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 unit 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				
	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				
	L	Malfunction of inverter system	Malfunction of inverter PCB		El. compo. box temperature rise	Malfunction of inverter radiation 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				
	P	Shortage of refrigerant amount (thermal storage unit)	Power voltage imbalance or inverter PCB	Automatic refrigerant charge operation stop	Reactor temperature abnormality	Malfunction of radiation fin temperature sensor											Improper combination between inverter and fan driver
System	U	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 control equipment address	Malfunction of transmission between indoor unit and centralized control equipment			Malfunction of transmission (accessory device)
Others	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			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		

Fan Coil

Division	Detail code	0	1	2	3	4	5	6	7	8	9	A	C	E	F	H	J
Indoor Unit	A				Malfunction of drain level system	Malfunction of freezing protection										Malfunction of dust collector of air cleaner	
	C					Malfunction of liquid pipe thermistor for heat exchanger					Malfunction of suction air thermistor						Malfunction of thermostat sensor in remote controller
System	U		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 control equipment address	Malfunction of transmission between indoor unit and centralized control equipment			
	M		Malfunction of central remote controller PCB							Malfunction of transmission between optional controllers for centralized control		Improper combination of optional controllers for centralized control	Address duplication, improper setting				

Simple Self-Diagnosis by Malfunction Code

	Malfunction code	Malfunction Contents	Supposed causes	Objects						
				RA	SkyAir	VRV	Package	Heat reclaim ventilator	Chiller	Fan Coil
Indoor Unit	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	Defective indoor unit PCB External factor (Noise etc.)	○	○	○	○	○	○	
	A3	Drain Level Control System Abnormality	Drain clogging, upward slope, etc. Defective drain pump Defective float switch or short circuit connector	○	○	○		○		○
	A4	Malfunction of freezing protection	Shortage of water volume Low water temperature setting Defective 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	Malfunction of fan motor	Broken wires in, short circuit of, or disconnection of connectors from the fan motor harness Defective fan motor Defective indoor unit PCB	○	○	○	○	○		
	A7	Malfunction of swing flap motor	Defective swing flap motor Defective indoor unit PCB Defective connection cable Defective airflow direction adjusting flap-cam		○	○				
	A8	Malfunction of power supply or AC input overcurrent	Defective power supply voltage Defective connection on signal line Defective wiring		○	○		○		
	A9	Malfunction of electronic expansion valve	Defective electronic expansion valve coil Defective indoor unit PCB Defective relay cables		○	○	○	○	○	
	AA	Heater overheat	26WH is activated				○		○	
	AF	Malfunction of a humidifier system	Humidifier unit (optional accessory) leaking Defective drain piping (upward slope, etc.) Defective indoor unit PCB		○	○		○		
	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)	The capacity setting adaptor was not installed when replacing PCB. Defective indoor unit PCB		○	○	○			
	C1	Failure of transmission (between indoor unit PCB and sub PCB)	Defective connection of the connector between indoor unit PCB		○	○				
	C4	Malfunction of liquid pipe thermistor for heat exchanger	Defective thermistor for liquid pipe Defective indoor unit PCB Defective connector contact	○	○	○	○	○	○	○
	C5	Malfunction of gas pipe thermistor for heat exchanger	Defective thermistor for gas pipe Defective indoor unit PCB Defective connector contact	○		○	○	○	○	
	C6	Malfunction of fan motor sensor or fan control driver	Defective fan PCB Defective connection of capacity setting adaptor Field setting error		○	○				
	C7	Front panel driving motor fault	Defective front panel driving motor Defective limit switch	○						
	C9	Malfunction of suction air thermistor	Defective thermistor for suction air Defective indoor unit PCB Defective connector contact	○	○	○	○	○		○
	CA	Malfunction of discharge air thermistor	Defective thermistor for discharge air Defective indoor unit PCB Defective connector contact	○		○	○	○		
	CC	Malfunction of humidity sensor system	Defective humidity sensor Defective connector contact	○	○		○			
	CJ	Room temperature thermistor in remote controller abnormality	Defective room temperature thermistor in remote controller Defective remote controller PCB External factor (Noise etc.)	○	○	○	○			○

	Malfunction code	Malfunction Contents	Supposed causes	Objects						
				RA	SkyAir	VRV	Package	Heat reclaim ventilator	Chiller	Fan Coil
Outdoor Unit	E0	Protection devices activated (unified)	Protection device connected to outdoor unit PCB actuated Defective protection device connector contact		○	○			○	
	E1	Defective outdoor unit PCB	Defective outdoor unit PCB Defective connection of inside/ outside relay wires	○	○	○	○		○	
	E3	Actuation of high pressure switch (HPS)	Dirty outdoor unit heat exchanger Defective high pressure switch Clogged refrigerant piping Defective connector contact	○	○	○	○			
	E3	System No.1 Actuation of high pressure switch (HPS)	Dirty outdoor unit heat exchanger Shortage of water volume Clogged refrigerant piping Defective connector contact Defective HPS						○	
	E4	Actuation of low pressure switch (LPS)	Abnormally drop in low pressure Defective low pressure sensor Defective outdoor unit PCB Defective connector contact		○	○	○		○	
	E5	Inverter compressor motor or overheat	Inverter compressor lock High differential pressure Defective inverter PCB UVW connection error Defective connector contact	○	○	○	○		○	
	E6	STD compressor motor overcurrent/lock	Defective compressor Defective control PCB The stop valve is not opened	○	○	○	○			
	E6	System No.1 Compressor overcurrent	Defective electronic expansion valve Shortage of refrigerant amount Defective compressor						○	
	E7	Malfunction of outdoor unit fan motor system	Fan motor failure Neglect to connect or defective connection of harness/ connector between the fan motor and the PCB Fan does not rotate due to foreign matters caught in it	○	○	○	○		○	
	E8	Overcurrent of inverter compressor	Defective compressor Defective inverter main circuit capacitor Defect of outdoor unit PCB Defect of power transistor	○					○	
	E9	Malfunction of electronic expansion valve coil	Disconnection of connectors from electronic expansion valves Defective electronic expansion valve coil Defective outdoor unit control PCB		○	○	○		○	
	EA	Malfunction of four way valve or cool/heat switchin	Defective four way valve Shortage of gas Defective outdoor unit PCB Defective thermistor	○						
	EC	Malfunction of entering water temperature	Cooling water temperature abnormality Defective outdoor unit PCB Defective thermistor			○				
	F3	Malfunction of discharge pipe temperature	Defective discharge pipe thermistor Abnormal discharge pipe temperature Defective outdoor unit control PCB Defective connector contact	○	○	○	○		○	
	F6	Abnormal high pressure or refrigerant overcharged	Refrigerant overcharged Disconnection of heat exchanger deicer thermistor Disconnection of outdoor air thermistor Disconnection of liquid pipe temperature thermistor Defective outdoor unit PCB	○	○	○	○			
	H0	Malfunction of sensor system of compressor	Harness is disconnected, or defective connection Defective PCB	○					○	
	H1	Malfunction of room temperature sensor or humidifier unit damper	Defective limit switch Defective damper	○					○	
	H3	Malfunction of high pressure switch (HPS)	Defective high pressure switch Broken wire Defective outdoor unit PCB Defective connector contact	○	○	○	○		○	
	H4	Malfunction of low pressure switch (LPS)	Defective low pressure switch Broken wire Defective outdoor unit PCB Defective connector contact		○	○			○	

Simple Self-Diagnosis by Malfunction Code

Malfunction code		Malfunction Contents	Supposed causes	Objects						
				RA	SkyAir	VRV	Package	Heat reclaim ventilator	Chiller	Fan Coil
Outdoor Unit	H5	Malfunction of compressor motor overload thermistor	Defect of compressor motor overload thermistor Defective connector contact	○					○	
	H6	Malfunction of position detection sensor	Faulty contact of compress or cable Defective compressor Defective outdoor unit PCB	○			○		○	
	H7	Malfunction of outdoor unit fan motor signal	Abnormal signal from fan motor (Circuit failure) Disconnection/Short circuit in fan motor leads or disconnection of connector Defective inverter PCB		○	○	○		○	
	H8	Malfunction of compressor input (CT) system	Defective power transistor Defective reactor Faulty wiring of inverter system Defective outdoor unit PCB	○					○	
	H9	Malfunction of outdoor air thermistor	Defective connection of thermistor Defective outdoor unit PCB Defective outdoor air thermistor	○	○	○	○		○	
	HC	Malfunction of (hot) water temperature thermistor	Defective connection of thermistor Defective outdoor unit PCB Defective water temperature thermistor		○	○			○	
	HF	Alarm in thermal storage unit or storage controller	Thermal storage group defective wiring Defective setting Excess of thermal storage tank numbers			○				
	HJ	Malfunction of thermal storage tank water level	Low water level Defective switch setting Water level detecting sensor failure Defective connector contact	○	○	○	○			
	J1	Malfunction of pressure sensor	Defective pressure sensor connector contact Defective pressure sensor Defective outdoor unit PCB		○	○	○		○	
	J2	Malfunction of current sensor of compressor	Defective current sensor Defective compressor Defective outdoor unit PCB	○	○	○	○		○	
	J3	Malfunction of discharge pipe thermistor	Defective connection of thermistor Defective discharge pipe thermistor Defective outdoor unit PCB	○	○	○	○		○	
	J4	Malfunction of low pressure equivalent saturated temperature sensor system	Defective connection of thermistor Defective thermistor Defective outdoor unit PCB			○			○	
	J5	Malfunction of suction pipe thermistor	Defective connection of thermistor Defective suction pipe thermistor Defective outdoor unit PCB		○	○	○		○	
	J6	Malfunction of heat exchanger thermistor	Defective connection of thermistor Defective heat exchanger thermistor Defective outdoor unit PCB	○	○	○	○		○	
	J7	Malfunction of thermistor (Refrigerant circuit)	Defective connection of thermistor Defective liquid pipe thermistor Defective outdoor unit PCB		○	○	○		○	
	J8	Malfunction of thermistor (Refrigerant circuit)	Defective connection of thermistor Defective liquid pipe thermistor Defective outdoor unit PCB	○	○	○	○		○	
	J9	Malfunction of thermistor (Refrigerant circuit)	Defective connection of thermistor Defective gas pipe thermistor Defective outdoor unit PCB	○	○	○	○		○	
	JA	Malfunction of high pressure sensor	Defective connector contact Connection of low pressure sensor in mistake for high pressure sensor Defective high pressure sensor Defective outdoor unit PCB		○	○	○		○	
	JC	Malfunction of low pressure sensor	Defective connector contact Connection of high pressure sensor in mistake for low pressure sensor Defective low pressure sensor Defective outdoor unit PCB		○	○	○		○	

Malfunction code		Malfunction Contents	Supposed causes	Objects						
				RA	SkyAir	VRV	Package	Heat reclaim ventilator	Chiller	Fan Coil
Outdoor Unit	JE	Malfunction of oil pressure sensor or sub-tank thermistor	Defective connector contact Defective sub-tank thermistor Defective outdoor unit PCB			○				
	JF	Malfunction of oil level sensor or heating heat exchanger thermistor	Defective connector contact Defective heat exchanger thermistor Defective outdoor unit PCB			○				
	L0	Malfunction of inverter system	Shortage of power supply capacity Defective power transistor Defective outdoor unit PCB			○			○	
	L1	Malfunction of inverter PCB	Defective compressor wiring Defective outdoor unit fan motor Blown fuse Defective inverter PCB		○	○	○		○	
	L3	El.compo. box temperature rise	Fin temperature rise due to short circuit Defective outdoor unit fan motor Defective power transistor Defective outdoor unit PCB	○	○	○			○	
	L4	Malfunction of inverter radiation fin temperature rise	Fin temperature rise due to short circuit Defective fin thermistor	○	○	○	○		○	
	L5	nverter instantaneous overcurrent (DC output)	Defective compressor coil (such as wiring disconnection or insulation failure) Compressor startup failure (mechanical lock) Defective inverter PCB	○	○	○	○		○	
	L6	Inverter instantaneous overcurrent (AC output)	Overcharge of refrigerant amount Shortage of power supply capacity Defective compressor Defective inverter unit			○			○	
	L8	Malfunction of overcurrent inverter compressor	Compressor overloaded Wiring disconnection in compressor coil Disconnection of compressor wiring Defective inverter PCB	○	○	○	○		○	
	L9	Malfunction of inverter compressor startup error (Stall prevention)	The stop valve is not opened Defective compressor Error in wire connections to compressor Large differential pressure before compressor startup Defective inverter PCB		○	○	○		○	
	LA	Malfunction of power transistor	Defective power transistor Defective compressor Defective inverter PCB			○			○	
	LC	Malfunction of transmission between control and inverter PCB	Defective connection between the inverter PCB and the control PCB External factors (e.g. noise) Defective inverter compressor Defective control PCB (transmission block)	○	○	○	○		○	
	M1	Malfunction of central remote controller PCB	Defective central remote controller PCB	○	○	○	○			○
	M8	Malfunction of transmission between optional controllers for centralized control	Other centralized control power disconnection Centralized control reset switch ON Defective transmission wiring Central remote controller address change	○	○	○	○			○
	MA	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	○	○	○	○			○
	P0	Shortage of refrigerant amount (thermal storage unit)	Shortage of refrigerant Clogged refrigerant piping			○			○	
	P1	Power voltage imbalance or inverter PCB	Open phase Interphase voltage imbalance Defective capacitor in the main circuit Defective wiring in the main circuit Defective inverter PCB		○	○	○		○	

Simple Self-Diagnosis by Malfunction Code

Malfunction code		Malfunction Contents	Supposed causes	Objects						
				RA	SkyAir	VRV	Package	Heat reclaim ventilator	Chiller	Fan Coil
Outdoor Unit	P2	Automatic refrigerant charge operation stop	The stop valve is not opened Closed valve of refrigerant tank		○	○	○		○	
	P3	Malfunction of thermistor in switch box	Defective connection of thermistor Defective reactor thermistor Defective inverter PCB	○	○	○	○		○	
	P4	Malfunction of radiation fin temperature sensor	Defective radiation fin temperature thermistor Defective inverter PCB Defective INV. compressor Defective fan motor	○	○	○	○		○	
	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)	Defective fan motor Defective outdoor unit PCB Broken relay harness Defective connector contact	○						
	P9	Automatic refrigerant charge operation completed	—		○	○	○	○		
	PA	Refrigerant cylinder during automatic refrigerant charging	Refrigerant cylinder of master unit is empty		○	○	○			
	PA	Broken wire of heater (humidifier unit)	Defective heater unit Defective thermistor Defective outdoor unit PCB	○						
	PC	Refrigerant cylinder during automatic refrigerant charging	Refrigerant cylinder of slave unit 2 is empty			○	○			
	PE	Automatic refrigerant charge operation nearly completed	—		○	○	○			
	PH	Refrigerant cylinder during automatic refrigerant charging	Defective heater unit Defective connector contact Defective thermistor Defective outdoor unit PCB	○		○	○			
	PJ	Malfunction of capacity setting (Outdoor unit PCB)	Capacity setting adaptor is not installed Improper capacity setting adaptor Defective outdoor unit PCB		○					
	PJ	Improper combination between inverter and fan driver	Mis-matching of type of PCB Improper (or no) field setting after replacing outdoor unit main PCB		○	○	○		○	
System	U0	Shortage of refrigeran	Refrigerant shortage and refrigerant clogging (wrong piping) Defective thermistor Defective low pressure sensor Defective outdoor unit main PCB	○	○	○	○		○	
	U1	Reverse phase, open phase	Power supply reverse phase T phase open phase Defective outdoor unit PCB (A1P)	○	○	○	○	○	○	○
	U2	Malfunction of power supply or instantaneous power failure	Abnormal power supply voltage Instantaneous power failure Defective main circuit wiring	○	○	○	○		○	○
	U3	Check operation not executed or transmission error	Check operation is not executed.	○	○	○	○	○	○	○
	U4	Malfunction of transmission between indoor and outdoor unit	Short circuit in indoor-outdoor or outdoor-outdoor transmission wiring (F1 / F2), or wrong wiring Outdoor unit power supply is OFF System address does not match Defective indoor unit PCB Defective outdoor unit PCB	○	○	○	○	○	○	○
	U5	Malfunction of transmission between indoor unit and remote controller	Transmission error between indoor unit and remote controller Connection of 2 main remote controllers (when using 2 remote controllers) Defective indoor unit PCB Defective remote controller PCB Transmission error caused by noise	○	○	○	○		○	○
	U6	Malfunction of transmission between indoor units	Faulty wiring External factor (Noise etc.) Defective indoor unit PCB			○	○		○	○

Malfunction code		Malfunction Contents	Supposed causes	Objects						
				RA	SkyAir	VRV	Package	Heat reclaim ventilator	Chiller	Fan Coil
System	U7	Malfunction of transmission between outdoor units or outdoor storage unit	Connection error of transmission wirings between outdoor unit and external control adaptor for outdoor unit Connection error of transmission wirings between outdoor units Defective outdoor unit PCB	○		○	○		○	○
	U8	Malfunction of transmission between remote controllers	Transmission error between main and sub remote controller Connection between sub remote controllers Defective remote controller PCB		○	○	○	○	○	○
	U9	Malfunction of transmission (other system)	Transmission error between other indoor and outdoor units Defective electronic expansion valve of other indoor unit Defective indoor unit PCB of other indoor unit Improper connection of transmission wiring between indoor and outdoor unit		○	○	○		○	○
	UA	Defect of indoor/outdoor power supply	Wrong model connections Improper power supply Wrong PCB connected Defective PCB	○						
	UA	Improper combination of indoor and outdoor units	Excess of connected indoor units Defective outdoor unit PCB Mismatch of the refrigerant type of indoor and outdoor unit Setting of outdoor unit PCB was not carried out after replacing to spare PCB		○	○	○		○	
	UA	Remote temperature setting wire disconnection	Remote temperature setting wire disconnection Defective connector contact					○		
	UC	Malfunction of setting of centralized control equipment address	Address duplication of centralized control equipment Defective indoor unit PCB		○	○	○	○	○	○
	UE	Malfunction of transmission between indoor unit and centralized control equipment	Transmission error between optional controllers for centralized control equipment and indoor unit Connector for setting main controller is disconnected.(or disconnection of connector for independent / combined use changeover switch.) Defective PCB for central remote controller Defective indoor unit PCB		○	○	○	○	○	○
	UF	System is not set yet	Improper connection of transmission wiring between indoor-outdoor units and outdoor-outdoor units Failure to execute check operation Defective indoor unit PCB Stop valve is not opened		○	○	○	○		
	UH	Malfunction of system	Improper connection of transmission wiring between indoor-outdoor units and outdoor-outdoor units Defective indoor unit PCB Defective outdoor unit PCB	○		○	○			
	UJ	Malfunction of transmission (accessory device)	Defect of accessory devices Faulty wiring	○	○	○	○		○	
Others	60	External protection device activated (Heat reclaim ventilator)	Actuation of external protection device Defective output signal wiring Defective control PCB					○		
	64	Malfunction of indoor air thermistor (Heat reclaim ventilator)	Defective connector contact Defective indoor air thermistor Defective control PCB					○		
	65	Malfunction of outdoor air thermistor (Heat reclaim ventilator)	Defective connector contact Defective outdoor air thermistor Defective control PCB					○		
	6A	Malfunction of damper system (Heat reclaim ventilator)	Defective connector contact Defective limit switch Defective damper motor Defective control PCB					○		
	70	System No. 2 Compressor overheat	Shortage of refrigerant amount Defective connector contact Leakage of four way valve						○	
	71	System No. 2 Compressor overcurrent	Shortage of refrigerant amount Short circuit Defective compressor						○	

Simple Self-Diagnosis by Malfunction Code

Malfunction code		Malfunction Contents	Supposed causes	Objects						
				RA	SkyAir	VRV	Package	Heat reclaim ventilator	Chiller	Fan Coil
Others	72	System No. 2 Fan motor overcurrent	Defective fan motor connector contact Defective fan motor Defective PCB						○	
	73	System No. 2 Actuation of high pressure switch (HPS)	Dirty heat exchanger Shortage of water volume Clogged refrigerant piping Defective connector contact Defective HPS						○	
	74	System No. 2 Actuation of low pressure switch (LPS)	Clogged refrigerant piping Defective connector contact Shortage of gas Defective LPS						○	
	75	System No. 2 Malfunction of low pressure sensor	Defective connector contact Defective low pressure sensor Defective PCB						○	
	76	System No. 2 Malfunction of high pressure sensor	Defective connector contact Defective high pressure sensor Defective PCB						○	
	77	System No. 1 Malfunction of fan inter lock	Defective relay contact Broken wire						○	
	78	System No. 2 Malfunction of fan inter lock	Defective relay contact Broken wire						○	
	7A	System No. 2 Malfunction of compressor current sensor	Defective current sensor Defective compressor Defective outdoor unit PCB						○	
	7C	System No. 2 Malfunction of pump inter lock	Cooling water pump interlock actuated						○	
	80	Malfunction of entering water temperature thermistor	Defective connector contact Defective entering water temperature thermistor						○	
	81	Malfunction of leaving water temperature thermistor or drain pipe heater	Defective connector contact Defective leaving water temperature thermistor						○	
	82	System No. 1 Malfunction of refrigerant thermistor	Defective connector contact Defective refrigerant thermistor						○	
	83	System No. 2 Malfunction of refrigerant thermistor	Defective connector contact Defective refrigerant thermistor						○	
	84	System No. 1 Malfunction of heat exchanger thermistor	Defective connector contact Defective heat exchanger thermistor						○	
	85	System No. 2 Malfunction of heat exchanger thermistor	Defective connector contact Defective heat exchanger thermistor						○	
	86	System No. 1 Malfunction of discharge pipe thermistor	Defective connecting connector Defective discharge pipe thermistor						○	
	88	System No. 2 Malfunction of discharge pipe temperature	Shortage of gas Defective discharge pipe thermistor Defective connector contact Clogged refrigerant piping						○	
	89	Malfunction of brazed-plate heat exchanger freezing	Dirty heat exchanger Shortage of refrigerant amount Defective thermistor						○	
	8A	System No. 2 Malfunction of leaving water temperature thermistor	Defective connector contact Defective leaving water temperature thermistor						○	
	8E	System No. 1 Malfunction of suction pipe thermistor 1 for heating	Defective connector contact Defective suction pipe thermistor						○	
	8F	System No. 1 Malfunction of suction pipe thermistor 2 for heating	Defective connector contact Defective suction pipe thermistor						○	

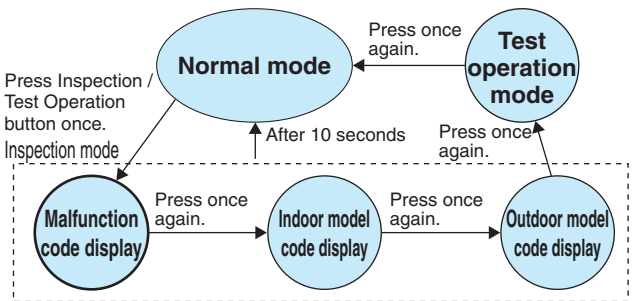
Malfunction code		Malfunction Contents	Supposed causes	Objects						
				RA	SkyAir	VRV	Package	Heat reclaim ventilator	Chiller	Fan Coil
Others	8H	Abnormal hot water high temperature	Three way valve malfunction Defective thermistor Defect of water temperature setting						○	
	90	Abnormal chilled water quantity or abnormal AXP	Shortage of water volume Disconnection of AXP						○	
	91	System No. 2 Malfunction of electronic expansion valve	Defective connector contact Defective electronic expansion valve coil						○	
	92	System No. 2 Malfunction of suction pipe thermistor	Defective connector contact Defective suction pipe thermistor						○	
	94	Malfunction of transmission (between heat reclaim ventilator and fan unit)	Defective fan unit PCB Defective connecting wire between (1) and (2)					○		
	95	System No. 1 Malfunction of inverter system	Defective fan inverter unit						○	
	96	System No. 2 Malfunction of inverter system	Defective fan inverter unit						○	
	97	Malfunction of thermal storage unit	Defective 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						○	

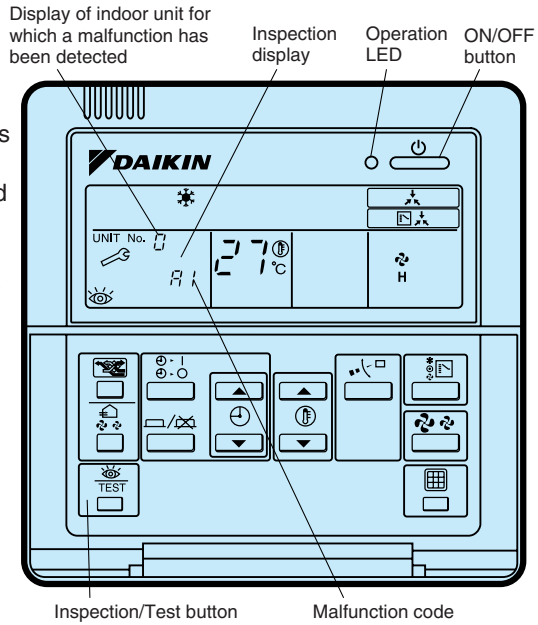
Self-Diagnosis by Remote Controller (SkyAir, *VRV*)

<Wired Remote Controller>

In case of BRC1C62

1. If operation stops due to malfunction, the remote controller's operation LED blinks, and a malfunction code is displayed.
2. Even if operation stops, malfunction contents are displayed when the inspection mode is entered.
   * While in check mode, hold the ON/OFF button for four seconds or more, the malfunction history will be cleared. (The malfunction code will blink, and the operation mode will switch from check mode to normal mode.)

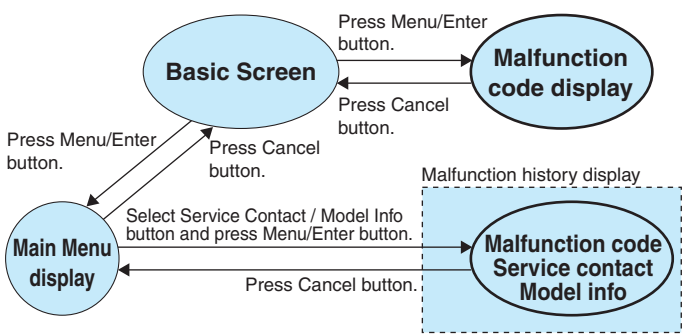


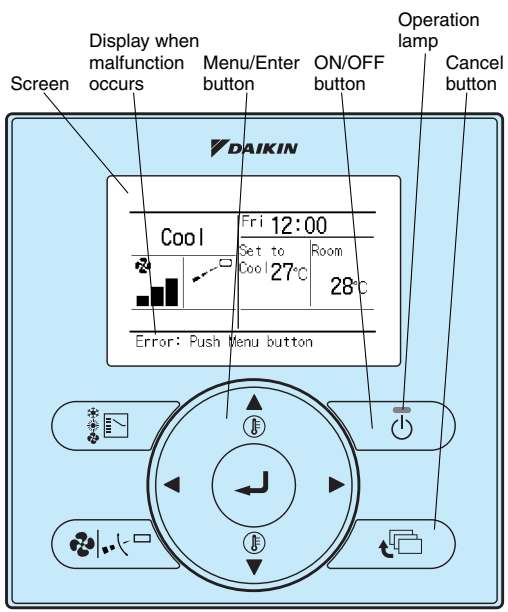


* Location of buttons varies by model type.

In case of BRC1E62

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





* While in malfunction code display mode on the left, press ON/OFF button for four seconds or more, the malfunction history will be cleared.

<Wireless Remote Controller>

◆ If operation stops due to a malfunction, the operation indicating LED on the light reception section flashes.
◆ The malfunction code can be displayed by following the procedure.

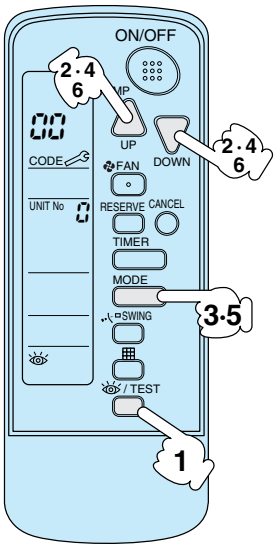
1. Press the INSPECTION/TEST button to select "Inspection."
   The equipment enters the inspection mode. The "Unit" indication lights and the Unit No. display shows a flashing "0" indication.
2. Set the Unit No.
   Press the UP or DOWN button and change the Unit No. display until the buzzer (*1) is generated 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.
4. 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.

⇨ "Advance" button ⇦ "Backward" button

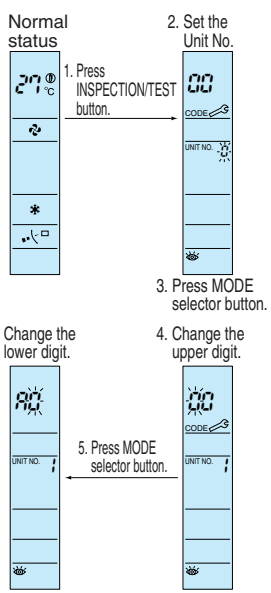
*2 Number of beeps
Continuous beep : Both upper and lower digits matched. (Malfunction code confirmed.)
2 short beeps : Upper digit matched.
1 short beep : Lower digit matched.

5. Press the MODE selector button.
   The right "0" (lower digit) indication of the malfunction code flashes.
6. 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.

⇨ "Advance" button ⇦ "Backward" button



* Location of buttons varies by the model type.

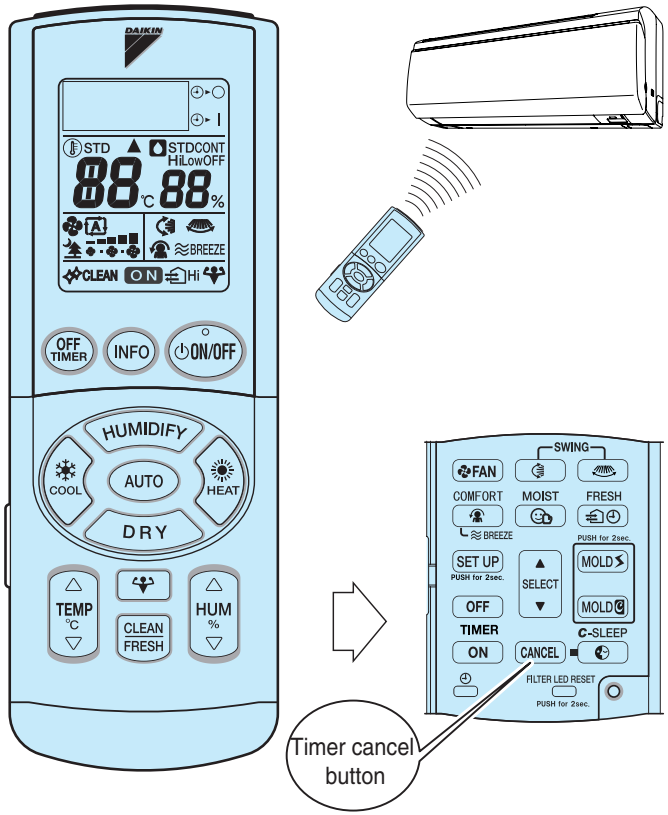


Self-Diagnosis by Remote Controller (Residential Air-conditioner)

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. (hold the timer cancel button down for 5 seconds.)



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:

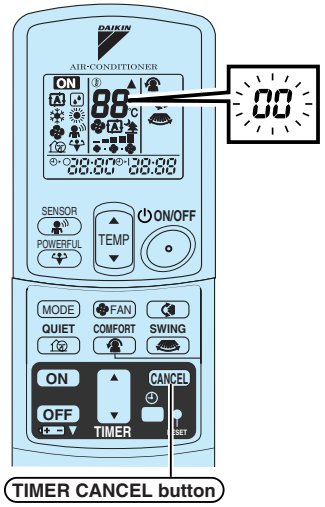
To cancel indication of malfunction code, hold the timer cancel button down for 5 seconds.
The code display also cancels itself if the button is not pressed for 1 minute.

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.

2. Press the timer cancel button repeatedly until a continuous beep is generated
   - The code indication changes in the sequence shown below, and notifies with a long beep.



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

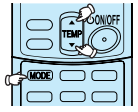
No.	Code	No.	Code	No.	Code
1	00	12	C7	23	H0
2	U4	13	H8	24	E1
3	F3	14	J3	25	P4
4	E6	15	A3	26	L3
5	L5	16	A1	27	L4
6	A6	17	C4	28	H6
7	E5	18	C5	29	H7
8	F6	19	H3	30	U2
9	C9	20	J6	31	UH
10	U0	21	UR	32	ER
11	E7	22	A5	33	AH

Note:

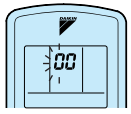
1. A short beep and two consecutive beeps indicate non-corresponding codes.
2. To cancel the code display, hold the timer cancel button down for 5 seconds. The code display also cancels itself if the button is not pressed for 1 minute.

[Check Method 2]

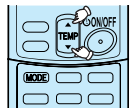
1. Press the 3 buttons (TEMP▲, TEMP▼, MODE) simultaneously to enter the diagnosis mode.



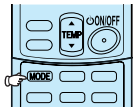
The figure of the ten's place blinks.
★ Try again from the start when the figure does not blink.



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

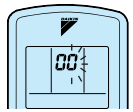


3. Diagnose by the sound.
   - ★ "1 short beep" : The figure of the ten's place does not accord with the malfunction code.
   - ★ "2 short beep" : The figure of the ten's place accords with the error code but the one's not.
   - ★ "1 long beep" : The both figures of the ten's and one's place accord with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

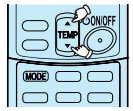


4. Press the MODE button.

   The figure of the one's place blinks.

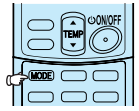


5. Press the TEMP button.
   Press TEMP▲or▼button and change the figure until you hear the sound of "long beep".



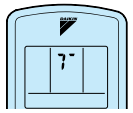
6. Diagnose by the sound.
   - ★ "1 short beep" : The figure of the ten's place does not accord with the malfunction code.
   - ★ "2 short beep" : The figure of the ten's place accords with the error code but the one's not.
   - ★ "1 long beep" : The both figures of the ten's and one's place accord with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

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

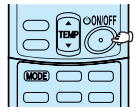


8. Press the MODE button to exit from the diagnosis mode.

   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.