



Samsung Error Code Booklet

Introduction

Welcome to the new Samsung Error Code Booklet,
for our repair network.

This booklet has been designed to offer on site assistance for fault
code analysis across the whole Samsung Air Conditioning range.

Split Systems AC
Cassette System AC
Ducted System AC
Free Joint Multi AC

Please use this book when attending Service Calls
as it will assist you with the next steps
on how to diagnose the system problem.

Should you need any further assistance please call
Technical Support on

1300 887 660 Option 1.

Split Type Error Codes

12-2-1 Communication Error

Indoor Display	○	⊙	⊙	Communication error
Outdoor Display	⊙	●	●	1 min. Time out Comm.
	○	○	●	Abnormal Communication
	○	●	●	

12-2-2 Indoor Temperature Sensor Error

Indoor Display	○	⊙	○	Indoor room temp sensor error
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12-2-3 Indoor Heat Exchanger Temperature Sensor Error

Indoor Display	⊙	⊙	○	Indoor Eva-in temp sensor error
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12-2-5 DC-Link Voltage Sensor Error

Indoor Display	⊙	○	⊙	Outdoor error
Outdoor Display	●	⊙	⊙	DC-link voltage sensor error

12-2-6 Indoor Fan Motor Speed Detecting Error (BLDC Fan)

Indoor Display	○	○	⊙	Indoor fan error
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12-2-7 Outdoor Temperature Sensor

Indoor Display	⊙	○	⊙	Outdoor error
Outdoor Display	⊙	○	⊙	Outdoor temperature sensor error

12-2-8 Outdoor Coil Temperature Sensor Error

Indoor Display	○	○	○	Outdoor error
Outdoor Display	●	●	○	Outdoor coil temperature sensor error

12-2-9 Outdoor Discharge Temperature Sensor Error

Indoor Display	○	○	○	Outdoor error
Outdoor Display	○	○	○	Outdoor discharge temperature sensor error

12-2-10 Outdoor Discharge Over Temperature Error

Indoor Display	○	○	○	Outdoor error
Outdoor Display	○	○	●	Outdoor discharge over temperature error

12-2-11 Outdoor Fan Motor Error

Indoor Display	○	○	○	Outdoor error
Outdoor Display	●	○	○	Outdoor fan error

12-2-12 Compressor Starting Error

Indoor Display	○	○	○	Outdoor error
Outdoor Display	○	○	○	Comp starting error

12-2-13 Compressor Wire Missing Error/Rotation Error

Indoor Display	⊙	○	⊙	Outdoor error
Outdoor Display	●	○	●	Compressor wire missing error/rotation error

12-2-14 O.C.(Over Current) Error

Indoor Display	⊙	○	⊙	Outdoor error
Outdoor Display	○	⊙	○	Comp starting error

12-2-16 DC-Link Voltage Under/Over Error, Over Voltage Protection Error/PFC Over Load

Indoor Display	⊙	○	⊙	Outdoor error
Outdoor Display	○	●	⊙	DC-link voltage under/over error Over voltage protection error PFC overload

12-2-17 I-Trip Error, PFC Over Current

Indoor Display	⊙	○	⊙	Outdoor error
Outdoor Display	●	⊙	●	I-trip error, PFC over current

12-2-18 Current Sensor Error/Input Current Sensor Error

Indoor Display	⊙	○	⊙	Outdoor error
Outdoor Display	⊙	⊙	●	Current sensor error/Input current sensor error

12-2-19 Heatsink Sensor Error/Heatsink Over Heat

Indoor Display	⊙	○	⊙	Outdoor error
Outdoor Display	⊙	⊙	●	Heatsink sensor error
	⊙	●	⊙	Heatsink over heat error

12-2-20 Comp V Limit Error/Comp Current Limit Error

Indoor Display	⊙	○	⊙	Outdoor error
Outdoor Display	⊙	●	○	Comp Vlimit error/Comp current limit error

12-2-21 EEPROM Error/OTP Error

Indoor Display	⊙	○	⊙	Outdoor error
Outdoor Display	○	●	○	EEPROM error
	●	○	⊙	OTP error

12-2-22 AC Zero Cross Signal Error

Indoor Display	⊙	○	⊙	Outdoor error
Outdoor Display	●	●	⊙	AC zero cross signal error

12-2-23 Operation Condition Secession Error

Indoor Display	⊙	○	⊙	Outdoor error
Outdoor Display	●	⊙	○	AC zero cross signal error

12-2-24 Capacity Miss Match Error

Indoor Display	⊙	○	⊙	Outdoor error
Outdoor Display	●	○	○	Capacity miss match error

12-2-25 Gas Leak Error

Indoor Display	⊙	○	⊙	Outdoor error
Outdoor Display	●	●	○	Gas leak error

12-2-26 IPM Over Current (O.C)


























Outdoor Display	○	○	⊙	IPM Over Current (O.C)
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12-2-27 Option Code Error

Indoor Display	⊙	⊙	⊙	All LED's are flashing on the indoor unit
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Cassette Error Codes

4-2-1 Four directions cassette type

Error mode				Cause	Measures	Product operation with error			Outdoor Display
 Operation	 Defrost	 Timer	 Filter			Outdoor heat exchanger compressor	Outdoor heat exchanger fan	Indoor heat exchanger fan	
	X	X	X	Power reset	-	Operation-off	Operation-off	Operation-off	-
X		X	X	Error of room temperature sensor in the indoor unit (open/short)	- Check indoor temperature connection. - Check indoor temperature sensor's resistance value to see if it's short/open	Operation-off	Operation-off	Operation-off	page 4-17
		X	X	Error of heat exchanger IN/OUT sensor in the indoor unit (Open/Short)	- Check EVA IN/OUT sensor connection. - Check EVA IN/OUT sensor's resistance value to see if it's short/open.	Operation-off	Operation-off	Operation-off	page 4-18
X	X		X	Error of fan motor in the Indoor unit	- Check the connection of motor connector. - Check the speed of the motor fan	Operation-off	Operation-off	Operation-off	page 4-19
	X		X	Error of the outdoor temperature sensor Error of the condenser temperature sensor Error of the discharge temperature sensor	- Check indoor temperature sensor connection. - Check indoor temperature sensor's resistance value to see if it's short/open.	Operation-off	Operation-off	Operation-off	-
X			X	No communication for 2 minutes between indoor and outdoor unit (communication error for more than 2 minutes)	- Check connection between indoor and outdoor heat exchanges' communication cables	Operation-off	Operation-off	Operation-off	page 4-20
X				Error of outdoor unit	- Check error occurred with outdoor heat exchanger	Operation-off	Operation-off	Operation-off	-
X	X			Detection of the float switch	- Check float switch connection. - Check whether the drain has been filled with water.	Operation-off	Operation-off	Operation-off	page 4-21
			X	EEPROM error	- Check if there is damage with EEPROM component.	Operation-off	Operation-off	Operation-off	page 4-22
				EEPROM option error	- Check the indoor model to set the options. - Inspection for match between indoor and outdoor machine models.	Operation-off	Operation-off	Operation-off	-

○ : On  : Blink X : Off

4-2-4 Troubleshooting for Outdoor Unit

If an error occurs during the operation, it is displayed on the outdoor unit PCB LED, both MAIN PCB and INVERTER PCB.


No.	LED Display			Displayed PCB Assy	Meaning	Remarks	Error Code
	Red	Green	Yellow				
-	●	○	○	MAIN/INVERTER	Normal operation (MAIN : Indoor↔Outdoor : Green ON) (INVERTER : MAIN PCB↔INVERTER PCB : Green ON)	Refer to Service Manual for more information	-
1	●	○	○	MAIN	Unit quantity miss matching between indoor and outdoor.	Check indoor quantity setting in outdoor (Refer to page 17.)	E201
2	●	●	○	MAIN/INVERTER	Abnormal state, no communication between Indoor and Outdoor Main PCB	Check electrical connection and setting	E202
	●	○	○				
3	●	●	○	MAIN/INVERTER	1min. Time out of communication error (Main↔Inverter)	Check electrical connection and setting	E203
4	●	○	○	MAIN	Outdoor temp sensor error	Check Outdoor sensor Open/Short	E221
5	●	○	○	MAIN	Cond. temp sensor error	Check Cond. sensor Open/Short	E231
6	●	○	○	MAIN	Discharge temp sensor error	Check Discharge sensor Open/Short	E251
7	●	○	○	MAIN	OLP Sensor Error	Check OLP sensor Open/Short	E320
8	●	○	○	MAIN	Detection of Outdoor Freezing when Comp. Stop	Check Outdoor Cond.	E403
9	●	○	○	MAIN	Protection of Outdoor Overload when Comp. Stop	Check Comp. when it start	E404
10	●	○	○	MAIN	Discharge temperature of a compressor in an outdoor unit is overheated.	Refer to Service Manual for more information	E416
11	●	○	○	MAIN	Heating operation is not available since the outdoor air temperature is over 30°C.	Heating	E440
					Cooling operation is not available since the outdoor air temperature is lower than -5°C.	Cooling	E441
12	○	○	●	MAIN/INVERTER	Outdoor unit BLDC Fan 1 or Fan 2 error	FAN1 error	E458
						FAN2 error	E475
13	○	○	○	MAIN/INVERTER	Comp. Starting error	Refer to Service Manual for more information	E461
14	●	○	○	MAIN	Primary Current Trip error	Refer to Service Manual for more information	E462
15	●	○	○	MAIN	Over current trip / PFC over current error	Check OLP sensor	E463
16	○	○	○	MAIN/INVERTER	IPM(IGBT Module) Over Current(O.C)	Refer to Service Manual for more information	E464
17	○	●	○	MAIN/INVERTER	Comp. Over load error	Refer to Service Manual for more information	E465
18	○	●	○	MAIN/INVERTER	DC-Link voltage under/over error	Check AC Power or DC-Link voltage	E466
19	●	○	●	MAIN/INVERTER	Comp. wire missing error	Check Comp. wire	E467
20	●	○	○	MAIN/INVERTER	Current sensor error	Check Outdoor Inverter PBA	E468
21	●	○	○	MAIN	Outdoor EEPROM error	Check Outdoor EEPROM date	E471
22	○	○	○	MAIN/INVERTER	IPM(IGBT Module) or PFCM Temperature sensor Error	Check Outdoor Inverter PBA	E474
23	●	○	●	MAIN/INVERTER	PFC Overload Error	Check Outdoor Inverter PBA	E484
24	○	○	○	MAIN/INVERTER	IPM is over heated.	Check Outdoor Inverter PBA	E500

4-2-4 Troubleshooting for Outdoor Unit Cont.

No.	LED Display			Displayed PCB Assy	Meaning	Remarks	Error Code
	Red	Green	Yellow				
25	●	○	○	MAIN	GAS Leak error	Check indoor and outdoor unit model	E554
26	●	○	○	MAIN	Capacity miss match between indoor and outdoor	Check indoor and outdoor unit model	E556
27	●	○	○	MAIN	Option code miss matching among the indoors (only for DPM)	Check indoor option code	E557

○ : Off ○ : Blink ● : On

4-2-5 Wired Remote Controller

- If an error occurs, () icon will be displayed on the wired remote controller.
- Press the Test button to see the error code.

Error mode	Contents	Measure	Product operation in error condition	
			Outdoor unit/ Compressor/ Indoor unit	Error type
101	Indoor unit communication error	Check the communication cable of indoor unit. Check the DC output voltage at the communication terminal	Operation Off	Communication error
102	Indoor unit/outdoor unit communication time-out error: errors in more than 6 packets	Check the outdoor communication cable connection. Check DC output voltage and the communication terminal	Operation Off	Communication error
121	Indoor temperature sensor (open/short error)	Check indoor unit room temperature sensor. Check indoor unit PCB connector CN41 (White)	Operation Off	Indoor sensor error
122	Indoor unit Eva In sensor (Open/Short)	Check indoor unit pipe sensor. Check indoor PCB connector CN41(White)	Operation Off	Indoor sensor error
128	Indoor unit Eva In sensor disconnection	Check the disconnection of indoor unit pipe sensor	Operation Off	Indoor sensor error
129	Indoor unit EVA Out Sensor Separation	Refer to Service Manual for more information		
153	Indoor floating switch secondary detection	Check indoor unit float sensor. Check indoor PCB connector CN5 (black)	Operation Off	Self diagnostic error
201	Unit Miss Match Indoor / Outdoor	Refer to Service Manual for more information		
202	Indoor/outdoor communication error (1 min)	Check the communication connection between indoor and outdoor units. Check the power line and communication cable connection status	Operation Off	Communication error
203	Communication error between indoor/outdoor INV↔MAIN MICOM (1 min)	Check MAIN MICOM Check INVERTER MICOM	-	Communication error
221	Outdoor temperature sensor error	Check sensor connection status Check sensor location Check sensor resistance	Operation Off	Outdoor sensor error
231	Cond Temp Sensor Error	Refer to Service Manual for more information		
237	COND temperature sensor error	Check sensor connection status Check sensor location Check sensor resistance	Operation Off	Outdoor sensor error
251	[Inverter] Emission temperature sensor error	Check sensor connection status Check sensor location Check sensor resistance	Operation Off	Outdoor sensor error
320	OPL Sensor Error	Refer to Service Manual for more information		
403	Detection of Outdoor Freezing When Compressor Stop	Refer to Service Manual for more information		


4-2-5 Wired Remote Controller Cont.

Error mode	Contents	Measure	Product operation in error condition	
			Outdoor unit/ Compressor/ Indoor unit	Error type
404	Protection of Outdoor Overload When Compressor Stop	Refer to Service Manual for more information		
419	EEV Open Error	Refer to Service Manual for more information		
422	EVV Close Error	Refer to Service Manual for more information		
425	Power Cable Miss Connection	Refer to Service Manual for more information		
440	Heating operation blocked	Check the operation setting state Check temperature sensor	Operation Off	Self diagnostic error
441	Cooling operation blocked	Check the operation setting state Check temperature sensor	Operation Off	Self diagnostic error
461	[Inverter] Compressor startup error	Check the compressor connection status Check the resistance between difference phases of the compressor	Operation Off	Outdoor unit protection control error
462	[Inverter] Total current error/PFC over current error	Check the input power Check the coolant charging status Check the normal operation of outdoor fan	Operation Off	Outdoor unit protection control error
463	OLP Heat Sink Sensor Error	Refer to Service Manual for more information		
464	[Inverter] IPM over current error	Check coolant charging Check the compressor connection status and normal operation Check the obstacles around the indoor and outdoor units Check whether the outdoor unit service valve is open Check whether the indoor/outdoor installation pipe/ wiring are correct	Operation Off	Outdoor unit protection control error
465	Compressor V limit error	Check the compressor connection status Check the resistance between difference phases of the compressor	Operation Off	Outdoor unit protection control error
466	DC LINK over/low voltage error	Check input power Check AC power connection	Restart in 3 minutes	Outdoor unit protection control error
467	[Inverter] Compressor rotation error	Check the compressor connection status Check the resistance between difference phases of the compressor	Operation Off	Outdoor unit protection control error
468	[Inverter] Current sensor error	Check EEPROM DATA Check the normal operation of PCB	Operation Off	Outdoor unit protection control error
469	[Inverter] DC LINK voltage sensor error	Check the input power connection Check the status of RY21 and R200 in the INVERTER PCB	Operation Off	Outdoor unit Protection control error
471	[Inverter] OTP error	Check EEPROM DATA Check the normal operation of PCB	Operation Off	Outdoor unit protection control error
472	AC ZERO CROSSING SIGNAL OUT error	Check the input power status	Operation Off	Outdoor unit protection control error
473	Compressor LOCK error	Check the compressor connection status Check the resistance between difference phases of the compressor	Operation Off	Outdoor unit protection control error
474	Heat Sink Sensor Error	Refer to Service Manual for more information		

4-2-5 Wired Remote Controller Cont.

Error mode	Contents	Measure	Product operation in error condition	
			Outdoor unit/ Compressor/ Indoor unit	Error type
475	Outdoor fan 2 error	Check the input power connection status Check the connection status of the motor and the outdoor unit PCB Check the indoor/outdoor unit fuse	Operation Off	Self diagnostic error
484	PFC Overload Error	Refer to Service Manual for more information		
485	Input Current Sensor Error	Refer to Service Manual for more information		
500	Heat Sink Over Heat Error	Refer to Service Manual for more information		
554	Gas leak error	Check the coolant charging status Check the indoor EVA sensor Check if the outdoor unit service valve is open Check that the indoor/outdoor installation pipe/wiring are correct	Operation Off	Self diagnostic error
557	Option Code Miss Match Indoor Units	Refer to Service Manual for more information		
601	Communication error between the indoor unit and wired remote controller	Check the connection wire between the indoor unit and the wired remote controller	Normal operation	Wired remote controller error
602	Communication error between the Master and Slave wired remote controllers	Check the option switch for defining the Master and Slave (only one Master and one Slave can exist)	Normal operation	Wired remote controller error
606	COM1/COM2 cross installation error	Check that wired remote controller is connected to the COM2 terminal of the indoor unit	Normal operation	Wired remote controller error
ER	Wired remote controller COM2 option setting error	Check that Com1, Com2 setting DIP switch is set to Com2	Normal operation	Wired remote controller error

Wired Remocon Error Display

- If an error occurs,  is displayed on the wired remote controller.
- If you would like to see an error code, press the Test button.

Display	Explanation	Remark
101	Indoor unit Communication Error	Communication Error
102	Indoor/Outdoor unit Communication Time Out Error 60 Packet Over data	
201	Indoor unit is not connected	
203	Communication Error between Outdoor Main and Inverter Micom (Occurred after 1 minute detection in Main and Inverter)	
121	Indoor Temp. Sensor(Open/Short Error)	Indoor Sensor Error
122	Indoor Unit Eva in Sensor(Open/Short Error)	
128	Indoor Unit Eva in Sensor Separation	
221	Outdoor Temp. Sensor Error(Open/Short Error)	Outdoor Sensor Error
231	COND Temp. Sensor Error(Open/Short Error)	
251	Inverter Compressor Discharge Temp. sensor Error(Open/Short Error)	
425	Power cable miss connection error	
153	Indoor Float Switch 2nd Detection	Self Diagnosis Error
460	Outdoor unit - indoor unit communication wire miss connection (Connected to Power terminal)	
554	Outdoor unit refrigerant Full leakage(Gas leak)	
458	Outdoor Fan 1 Error	
475	Outdoor Fan 2 Error	
416	Discharge over temperature	Outdoor Unit Protection Control Error
461	[Inverter] Compressor starting error	
462	Primary Current Over Trip error	
464	[Inverter]IPM Over Current(0.C)	
467	[Inverter] Compressor Rotation error	
468	[Inverter] Current Sensor error	
469	[Inverter] DC LINK Sensor error	
471	[Inverter] EEPROM Read/Write Error	
474	[Inverter] Heatsink temperature over Error	Outdoor Unit Protection Control Error
556	Outdoor unit Capacity Setup option error	
601	Communication error between Indoor unit and wired remote control	Wired remote control error
602	Communication error between Master and Slave wired remote control	
606	COM1/COM2 Cross-installed error	
ER	Error of setting option for wired remote control COM2	

Ducted Outdoor Unit Error Display

- If an error occurs during the operation, it is displayed on the outdoor unit PCB LED, both MAIN PCB and INVERTER PCB.

No.	Error Code	Meaning	Remarks
1	E201	Unit quantity miss matching between indoor and outdoor.	Check indoor quantity setting in outdoor (Refer to page 17.)
2	E202	Abnormal state, no communication between Indoor and Outdoor Main PCB	Check electrical connection and setting
3	E203	1min. Time out of communication error(Main↔Inverter)	Check electrical connection and setting
4	E221	Outdoor temp sensor error	Check Outdoor sensor Open/Short
5	E231	Cond. temp sensor error	Check Cond. sensor Open/Short
6	E251	Discharge temp sensor error	Check Discharge sensor Open/Short
7	E320	OLP Sensor Error	Check OLP sensor Open/Short
8	E403	Detection of Outdoor Freezing when Comp. Stop	Check Outdoor Cond.
9	E404	Protection of Outdoor Overload when Comp. Stop	Check Comp. when it start
10	E416	Discharge temperature of a compressor in an outdoor unit is overheated.	Refer to Service Manual for more information
11	E440	Heating operation is not available since the outdoor air temperature is over 30°C.	Heating
	E441	Cooling operation is not available since the outdoor air temperature is lower than -5°C.	Cooling
12	E458	Outdoor unit BLDC Fan 1 or Fan 2 error	FAN1 error
	E475		FAN2 error
13	E461	Comp. Starting error	Refer to Service Manual for more information
14	E462	Primary Current Trip error	Refer to Service Manual for more information
15	E463	Over current trip / PFC over current error	Check OLP sensor
16	E464	IPM(IGBT Module) Over Current(O.C)	Refer to Service Manual for more information
17	E465	Comp. Over load error	Refer to Service Manual for more information
18	E466	DC-Link voltage under/over error	Check AC Power or DC-Link voltage
19	E467	Comp. wire missing error	Check Comp. wire
20	E468	Current sensor error	Check Outdoor Inverter PBA
21	E471	Outdoor EEPROM error	Check Outdoor EEPROM date
22	E474	IPM(IGBT Module) or PFCM Temperature sensor Error	Check Outdoor Inverter PBA
23	E484	PFC Overload Error	Check Outdoor Inverter PBA
24	E500	IPM is over heated.	Check Outdoor Inverter PBA
25	E554	GAS Leak error	Check indoor and outdoor unit model
26	E556	Capacity miss match between indoor and outdoor	Check indoor and outdoor unit model

FJM Indoor Unit Error Display

for AQV models please refer to the Split Type Error Codes

MH *** FVEA/MH *** FBEA/MH *** FAEA

Display	Explanation	Main Checking Point / Remark
E1 ⇄ 01	Communication error (unable to receive data)	Communication cable connection
E1 ⇄ 02	Communication error (outdoor cannot communicate)	Another indoor unit or indoor PCB
E1 ⇄ 21	Indoor unit room temperature sensor error (Open/Short)	Room temperature sensor, indoor PCB
E1 ⇄ 22	Indoor unit heat exchanger in temperature sensor error (Open/Short)	Heat exchanger in sensor, indoor PCB
E1 ⇄ 23	Indoor unit heat exchanger out temperature sensor error (Open/Short)	Heat exchanger out sensor, indoor PCB
E1 ⇄ 28	Indoor unit heat exchanger in temperature sensor detached	Heat exchanger in sensor
E1 ⇄ 29	Indoor unit heat exchanger out temperature sensor detached	Heat exchanger out sensor
E1 ⇄ 30	Indoor unit heat exchanger in & out temperature sensor detached	Heat exchanger in & out sensor
E1 ⇄ 53	Indoor unit float switch second detection	Refer to Service Manual for more information
E1 ⇄ 54	Indoor unit fan motor malfunction	Fan motor and cable
E1 ⇄ 61	More than 2 indoor units cool and heat simultaneously	Another indoor unit operation mode
E1 ⇄ 62	EEPROM error	Indoor PCB
E1 ⇄ 63	Option code setting error	Option code
E1 ⇄ 85	Cable miss-wiring	Cable connection (Indoor & Outdoor unit)
E1 ⇄ 86	MPI error malfunction	MPI
E2 ⇄ 01	The number of indoor unit mismatched	Cable connection (another indoor unit & outdoor unit), SW01(outdoor)
E2 ⇄ 51	Compressor discharge sensor error(Short/Open)	Outdoor unit
E2 ⇄ 59	Outdoor unit error	Outdoor unit (Error code)

MH *** FVEA/MH *** FBEA/MH *** FAE A

Description	Indicators			Main Checking Point
	Operation	Timer	Turbo	
Indoor unit room temperature sensor error (open or short)	○	●	○	Refer to Service Manual for more information
Indoor unit heat exchanger temperature sensor error (open or short)	●	●	○	Refer to Service Manual for more information
Indoor fan motor malfunction	○	○	●	Refer to Service Manual for more information
EEPROM error	●	●	●	Option Setting
Option error (option wasn't set up or option data error)	●	●	●	Option Setting
Outdoor unit error	●	○	●	Remote Control on/off Outdoor Unit Power Reset
Indoor unit communication error	X	●	●	Refer to Service Manual for more information
Outdoor unit communication error	●	X	●	Refer to Service Manual for more information
Simultaneous operation error	○	●	●	Refer to Service Manual for more information





































○ : On, ● : Flickering, X: OFF

◆ If you turn off the air conditioner when the LED is flickering, the LED is also turned off.

FJM Indoor Unit Error Display

for AQV models please refer to the Split Type Error Codes

MH * * * FSEA/MH * * * FMEA

Abnormal Conditions	Indicators					Operating	
	Green	Red	Yellow	Green	Orange		
	MH * * * FSEA						
	MH * * * FMEA						
Power reset		X	X	X	X	Refer to Service Manual for more information	
Error of temperature sensor in indoor unit (OPEN/SHORT)	X	X		X	X	Refer to Service Manual for more information	
Error of heat exchanger sensor in indoor unit Error of heat exchanger OUT sensor in indoor unit Error of outlet temperature sensor in indoor unit (OPEN/SHORT): For heat pump models only		X		X	X	Refer to Service Manual for more information	
Error of mixed operation	X		X		X	Refer to Service Manual for more information	
Error of indoor fan motor : Below 450RPM for 15 minutes	X	X	X		X	Refer to Service Manual for more information	
Error of outdoor temperature sensor Error of CONDENSER sensor Error of DISCHARGE sensor		X	X		X	Refer to Service Manual for more information	
1. No communication for 2 minutes between indoor unit and outdoor unit (communication error for more than 2 minutes) 2. Indoor unit receiving the communication error from outdoor unit 3. Outdoor unit tracking 3 minutes error 4. When sending the communication error from outdoor unit due to the mismatching of the communication numbers and installed numbers after completion of tracking (communication error for more than 2 minutes)	X	X			X	Error of indoor unit: Displayed on the indoor unit regardless of operation	
1. 2nd detection of refrigerant completely leak 2. 2nd detection of high temperature CONDENSER 3. 2nd detection of high temperature DISCHARGE 4. Compressor down due to 6th detection of freezing	X	X				Displayed on appropriate indoor unit which is operating Displayed on outdoor unit	
Error of float switch	X	X	X			Refer to Service Manual for more information	
Error of setting option switches for optional accessories	X	X		X		Refer to Service Manual for more information	
EEPROM error		X			X	Refer to Service Manual for more information	
EEPROM option error						Refer to Service Manual for more information	





























○ : On, : Flickering, X: OFF

◆ If you turn off the air conditioner when the LED is flickering, the LED is also turned off.

FJM Indoor Unit Error Display

for AQV models please refer to the Split Type Error Codes

MH * * * FJEA

Abnormal Conditions	LED lamp display					Remarks
						
Power reset	X	X	X	X		Refer to Service Manual for more information
Error of temperature sensor in the indoor unit (Open/Short)	X	X		X	X	Refer to Service Manual for more information
Error of heat exchanger sensor in the indoor unit	X	X		X		Refer to Service Manual for more information
Error of the outdoor temperature sensor Error of the condensor temperature sensor Error of the discharge temperature sensor	X		X	X		Refer to Service Manual for more information
1. No communication between indoor and outdoor unit for 2 minutes 2. Error on the communication received from outdoor unit 3. Outdoor unit tracking time out (3 minutes) 4. Number of installation does not match after tracking	X			X	X	1. Indoor unit error (Display is unrelated with operation) 2. Outdoor unit error (Display is unrelated with operation)
Indoor fan motor is non-operative Indoor fan motor is operating slowly Indoor fan motor is operates at an excessive speed	X		X	X	X	Indoor motor fan error
Simultaneous cooling/heating operation error (Multi model only)	X		X		X	Refer to Service Manual for more information
[Self diagnosis]Power voltage detection between indoor and outdoor unit communication cable [Self diagnosis]Outdoor unit refrigerant leakage(Gas leak) [Self diagnosis]Outdoor fan restriction error [Inverter]Inverter compressor operation failure [Inverter] DC peak error [Inverter]DC Link voltage 150V or less,410V or more [Inverter] Compressor rotation error [Inverter]Electric current error [Inverter]DC Link sensor error [Inverter]EEPROM READ/WRITE error [Inverter]Inverter zerocrossing error Setting the outdoor unit capacity option error				X	X	Refer to Service Manual for more information
EEPROM error	X			X		Refer to Service Manual for more information
EEPROM option error						Refer to Service Manual for more information
MPI no feedback error		X	X	X	X	Refer to Service Manual for more information






















○ : On,  : Flickering, X: OFF

◆ If you turn off the air conditioner when the LED is flickering, the LED is also turned off.

FJM Indoor Unit Error Display

for AQV models please refer to the Split Type Error Codes

NJ *** LHXE/MH *** FUEA

Abnormal Conditions	Indicators					Operating
	Concealed Type		Blue	Red	Standard Type	
						
						
Power reset		X	X	X	X	Refer to Service Manual for more information
Error of temperature sensor in indoor unit(OPEN/SHORT)	X	X		X	X	Displayed on appropriate indoor unit which is operating
Error of heat exchanger sensor in indoor unit Error of heat exchanger OUT sensor in indoor unit Error of outlet temperature sensor in indoor unit (OPEN / SHORT): For heat pump models only		X		X	X	Displayed on appropriate indoor unit which is operating
Error of mixed operation	X		X		X	Refer to Service Manual for more information
Error of outdoor temperature sensor Error of COND sensor Error of DISCHARGE sensor		X	X		X	Displayed on appropriate indoor unit which is operating Displayed on outdoor unit
1. No communication for 2 minutes between indoor unit and outdoor unit (communication error for more than 2 minutes) 2. Indoor unit receiving the communication error from outdoor unit 3. Outdoor unit tracking 3 minutes error 4. When sending the communication error from outdoor unit the mismatching of the communication numbers and installed numbers after completion of tracking. (communication error for more than 2 minutes)	X	X			X	1. Error of indoor unit : Displayed on the indoor unit regardless of operation 2. Error of outdoor unit : Displayed on the indoor unit which is operating
Self-diagnostic error (including the indoor unit not detected) 1. Error of electronic expansion valve close 2. Error of electronic expansion valve open 3. Breakaway of EVA OUT sensor 4. Breakaway of EVA IN sensor 5. Breakaway of COND MID sensor 6. 2nd detection of refrigerant completely leak 7. 2nd detection of high temperature COND 8. 2nd detection of high temperature DISCHARGE 9. COMP DOWN due to 2nd detection of low pressure switch 10. Error of reverse phase 11. Compressor down due to 6th detection of freezing 12. Self-diagnosis of condensation sensor (G8, G9) 13. Compressor down due to condensation ratio control	X	X				Displayed on appropriate indoor unit which is operating Displayed on outdoor unit
Error of float switch	X	X	X			Refer to Service Manual for more information
Error of setting option switches for optional accessories	X	X		X		Refer to Service Manual for more information
EEPROM error		X			X	Refer to Service Manual for more information
EEPROM option error						Refer to Service Manual for more information

○ : On, ● : Flickering, X: OFF

FJM Outdoor Unit Error Display

Display	EXPLANATION (The error indicated on the PCB display of outdoor unit)		REMARK
E1	01	Communication error (indoor unable to receive data)	Check electrical connection and setting
E1	02	Outdoor unit communication error (Abnormal data from indoor unit over 60 packet)	Check electrical connection and setting
E1	21	Indoor unit room temperature sensor error (Open/Short)	Refer to Service Manual for more information
E1	22	Indoor unit heat exchanger in temperature sensor error (Open/Short)	Refer to Service Manual for more information
E1	23	Indoor unit heat exchanger out temperature sensor error (Open/Short)	Refer to Service Manual for more information
E1	28	Indoor unit sensor error-Evaporator pipe in sensor - Self diagnosis	Refer to Service Manual for more information
E1	29	Indoor unit sensor error-Evaporator pipe out sensor - Self diagnosis	Refer to Service Manual for more information
E1	54	Indoor Unit FAN Error	Refer to Service Manual for more information
E1	61	More than two indoor units cool and heat simultaneously	Refer to Service Manual for more information
E1	62	Indoor Unit EEPROM Error	Refer to Service Manual for more information
E1	63	Indoor Unit EEPROM Option Error	Refer to Service Manual for more information
E1	90	Failure of pipe check operation	Check piping connection and setting
E1	99	No pipe check operation check - occasion : try to operation after the installation through auto addressing mode without pipe check operation.	Check setting
E2	01	The number of Indoor unit mismatched	Check electrical connection and setting
E2	02	Communication error between the outdoor and indoor unit	Check electrical connection and setting
E2	03	Outdoor communication error between main PCB and sub PCB	Refer to Service Manual for more information
E3	21	Outside temperature sensor error (Short/Open) - Error level: over 4.9V (-50°C) under 0.4V (93°C)	Refer to Service Manual for more information
E2	31	Condenser temperature sensor error (Short/Open) - Error level: over 4.9V (-50°C) under 0.4V (93°C)	Refer to Service Manual for more information
E2	46	Outdoor unit sensor error - Condenser out sensor (Short/Open) - Self diagnosis	Refer to Service Manual for more information
E2	51	Compressor Discharge temperature sensor error	Refer to Service Manual for more information
E2	61	Compressor discharge sensor detached - Self diagnosis	Refer to Service Manual for more information
E3	20	Compressor OLP sensor error (Short/Open) - Error condition : outdoor temperature under -20°C - Error level : over 4.95V (-30°C) under 0.5V (151°C)	Refer to Service Manual for more information
E3	30	Evaln1 Sensor Short/Open	Refer to Service Manual for more information
E3	31	Evaln2 Sensor Short/Open	Refer to Service Manual for more information
E3	32	Evaln3 Sensor Short/Open	Refer to Service Manual for more information
E3	33	Evaln4 Sensor Short/Open	Refer to Service Manual for more information
E3	34	Evaln5 Sensor Short/Open	Refer to Service Manual for more information
E3	35	EvaOut1 Sensor Short/Open	Refer to Service Manual for more information
E3	36	EvaOut2 Sensor Short/Open	Refer to Service Manual for more information
E3	37	EvaOut3 Sensor Short/Open	Refer to Service Manual for more information
E3	38	EvaOut4 Sensor Short/Open	Refer to Service Manual for more information

FJM Outdoor Unit Error Display Cont.

Display		EXPLANATION (The error indicated on the PCB display of outdoor unit)	REMARK
E3	39	EvaOut5 Sensor Short/Open	Refer to Service Manual for more information
E4	01	Outdoor unit freezing(Compressor stop)	check pipe lenght, indoor unit filter, refrigerant leakage/charge and service port
E4	04	Outdoor unit overload - Safety control(Compressor stop)	check pipe lenght, refrigerant leakage/charge
E4	15	Outdoor unit high discharge temperature - Safety control (Compressor stop)	check pipe lenght, refrigerant leakage/charge
E4	29	Outdoor unit EEV open (Stopped indoor unit's) -Self diagnosis	Refer to Service Manual for more information
E4	22	Outdoor unit EEV open (operating indoor unit's) -Self diagnosis	Refer to Service Manual for more information
E4	40	High temperature(over 30°C) of outdoor as heating mode	Refer to Service Manual for more information
E4	41	Low temperature(under -10°C) of outdoor as cooling mode	Refer to Service Manual for more information
E4	58	Outdoor Fan Error	Refer to Service Manual for more information
E4	60	Communication cable mismatched between indoor and outdoor unit	Check electrical connection
E4	61	Inverter compressor starting failure (5 times)	Refer to Service Manual for more information
E4	62	Compressor trip by input current control mode (PFC over current)	Refer to Service Manual for more information
E4	63	Compressor trip by OLP temperature control mode	Refer to Service Manual for more information
E4	64	Over current	Refer to Service Manual for more information
E4	65	Compressor Vlimit Error	Refer to Service Manual for more information
E4	66	DC link Voltage error (under 150V, over 410V)	Refer to Service Manual for more information
E4	67	Abnormal compressor running (Compressor Rotation Error)	Refer to Service Manual for more information
E4	68	Current sensor error	Refer to Service Manual for more information
E4	69	DC link Voltage sensor error	Refer to Service Manual for more information
E4	71	OTP Error	Refer to Service Manual for more information
E4	72	Inverter micom zero-crossing error	Refer to Service Manual for more information

FJM Option Codes & Static Pressure

MODEL NUMBER	OPTION CODE	MODEL NUMBER	OPTION CODE
MH020FNEA	026402-13225E-200000-300000	MH020FAEA	047402-1320E9-200000-300000
MH026FNEA	027402-14221A-200000-300000	MH026FAEA	047402-14221C-200000-300000
MH035FNEA	027402-16224d-200000-300000	MH035FAEA	047402-16233C-200000-300000
MH052FNEA	026402-19228F-200000-300000	MH052FAEA	047406-19223E-200000-300000
MH023FBEA	016402-142209-200000-300000	MH026FSEA	078605-1420F8-200000-300000
MH026FBEA		MH035FSEA	075605-16225d-200000-300000
MH035FBEA	016402-16223c-200000-300000	MH030FMEA	045023-16415b-200000-300000
MH052FBEA	016406-19224E-200000-300000	MH035FMEA	
MH020FVEA	007402-132219-200000-300000	MH052FMEA	045024-1940d0-200000-300000
MH026FVEA	004402-1420E7-200000-300000	MH026FJEA	087417-1400b6-200000-300000
MH035FVEA	007402-16221A-200000-300000	MH035FJEA	087417-1600d8-200000-300000
MH052FVEA	005406-19225E-200000-300000	MH052FJEA	087417-1900F9-200000-300000

TYPE	MODEL	Option Code
MALDIVES	AQV07PSBN	011305-1740E9-271416-372500-03403D-112E3F
	AQV09PSBN	011305-17421D-271921-372500-03403D-112E3F
	AQV12PSBN	011305-17423D-272328-372500-034B46-11474D
	AQV18PSBN	012305-17421D-27323C-372600-034743-113F47
	AQV24PSBN	012305-17427B-27444E-378200-034C4B-104442

External Static Pressure (mmAq)	1.0	2.0(Standard)	3.0	4.0
NJ026LHXEA	015201-1400Fb -200000-300000	015201-14020c -200000-300000	015201-140360 -200000-300000	015201-1403A2 -200000-300000
NJ035LHXEA	015201-16025d -200000-300000	015201-16026E -200000-300000	015201-1603c4 -200000-300000	015203-160108 -200000-300000
External Static Pressure (mmAq)	0.0	2.0	4.0(Standard)	6.0
MH052FUEA	012221-194247 -200000-300000	012221-194360 -200000-300000	012221-1943A2 -200000-300000	012223-194105 -200000-300000

Split Type Option Code

MODEL NUMBER	OPTION CODE	MODEL NUMBER	OPTION CODE
AQ09WHWE	25025 700FB	SH12ZA6	007025 17021D
AQ12WHWE	25025 70340	SH12ZK8	066025 172362
AS09BPAN	00A577 175247	SH12ZWH	25025 70340
AS12BPAN	014577 175267	SH18ZA6	094417 1A021D
AS18HM1	067013 17124E	SH24TA8	094617 1A023F
AS18HM2	067013 17024E	SH24TK6	085416 1D2362
AS18BPAN	02F777 175227	SH24ZS6A	0872D6 1DA362
AS24BPAN	03E777 175249	SH24ZW6	654D5 D0351
AS24HM1	067114 1D126E	SH30ZA2	0E5495 1D020A
AS24HM2	067114 1D026E	SH30ZC2	0E5495 1D020A
MH18ZA2	016223 1000EA	SH12ZAB	007227 17023F
MH26ZA2	017553 10021D	AQV09NSBN	084777 17522C
SC09ZA8	010000 1700D9	AQV12NSBN	094777 17524E
SC09ZK8	020000 17222E	AQV18NSBN	0AD777 17526E
SC09ZW8	25025 70340	AQV24NSBN	0BC777 17526E
SC12TK6	060000 172384	AQV09VBCN	044777 17520C
SC12ZA6	010000 17021D	AQV12VBCN	054777 17521D
SC18ZA6	090000 10021D	AQV18VBCN	06E777 17524E
SC24TA8	080000 1A0362	AQV24VBCN	07C777 17526E
SC24TK6	0A0000 1A2362	AQV30JAN	0E777 7522C
SC30ZC2	0E0000 1D020A or E54951D020A	AQV09VSCN	044777 17520C
SH09AW8	25025 70340	AQV12VSCN	054867 17524D
SH09BPH	0090A0 10022E	AQV18VSCN	06F677 17524E
SH09BWHA	05000 01340	AQV24VSCN	07C767 17526E
SH09VAD	006500 1010FB or 016500 1010FB	AQV24NSGN	0BF777 17528C
SH09ZA8	006825 1700D9	AQV09UWAN	43777 7D24C
SH09ZK8	027064 17221D	AQV12UWAN	53577 7D26C
SH09ZW8	25025 70340 or 25025 7022E	AQV18UWAN	6E777 7D21C
SH09ZWH	25025 700FB	AQV24UWAN	7F777 7D28C
SH12AWH	25025 70340	ASV09UWLN	41777 7D21D
SH12BPH	007090 110362	ASV12UWLN	51787 7D23D
SH12BWHA	05010 01351	ASV24UWLN	7B777 7D25C
SH12VAD	015212 10123F	AQV30UWAN	0E777 7D23C

MODEL NUMBER "Ducted"	OPTION CODE
NS100HHXEHE	011034 15624F 276470 370000
NS125HHXEHE	011034 156123 277D8C 370000
NS140HHXEHE	011034 116189 278CA0 370000
NS155HHXEHE	011034 116189 279BAA 370000
NS180HHXEHE	011034 1160C6 27B4D2 370000
NS071SDXEA	011037 11618C 274750 370010

MODEL NUMBER "Cassette"	OPTION CODE
NS0714PXEA	14077 560B6 74856 70000
NS1004PXEA	14077 57239 76470 70000
NS1254PXEA	14077 5723A 77D8C 70000
NS1404PXEA	14077 5723B 78CA0 70000



**TS Phone Number 1300 887 660 Option 1
for further assistance**

Date Printed: