

# error codes

## ERROR INDICATION FROM RUN & TIMER LIGHTS



	RUN light	Description of trouble	Cause
TIMER light ON	1 Time flash	Heat exchanger sensor 1 error	<ul style="list-style-type: none"> <li>Broken heat exchanger sensor 1 wire, poor connector connection</li> </ul>
	2 Time flash	Room temperature sensor error	<ul style="list-style-type: none"> <li>Broken room temperature sensor wire, poor connector connection</li> </ul>
	3 Time flash	Heat exchanger sensor 3 error	<ul style="list-style-type: none"> <li>Broken heat exchanger sensor 3 wire, poor connector connection</li> </ul>
	5 Time flash	Active filter voltage error	<ul style="list-style-type: none"> <li>Defective power supply</li> </ul>
	6 Time flash	Indoor fan motor error	<ul style="list-style-type: none"> <li>Defective fan motor, poor connector connection</li> </ul>
	7 Time flash	Refrigerant insufficient Closed service valve Heat exchanger sensor 1 error	<ul style="list-style-type: none"> <li>Refrigerant is insufficient, leaking</li> <li>Closed service valve</li> <li>Heat exchanger sensor 1 wire, poor connector connection</li> </ul>
RUN light Keeps flashing	TIMER light		
	1 Time flash	Outdoor temperature sensor error	Broken outdoor sensor wire, poor connector connection
	2 Time flash	Outdoor heat exchanger fluid pipe Sensor error	Broken heat exchanger fluid pipe sensor wire, poor connector connection
	3 Time flash	Discharge pipe sensor error	Broken discharge pipe sensor wire, poor connector connection
	5 Time flash	Suction pipe sensor error	Broken suction pipe sensor wire, poor connector connection

## ERROR INDICATION FROM RUN & TIMER LIGHTS



	TIMER light	Description of trouble	Cause
RUN light ON	1 Time flash	Current cut	<ul style="list-style-type: none"> <li>Compressor locking.</li> <li>Open phase on compressor output.</li> <li>Short circuit of on power transistor.</li> <li>Closed service valve.</li> </ul>
	2 Time flash	Trouble of outdoor unit	<ul style="list-style-type: none"> <li>Broken power transistor.</li> <li>broken compressor wire.</li> <li>Broken discharge pipe sensor wire, poor connector connection.</li> <li>Compressor blockage.</li> </ul>
	3 Time flash	Over current	<ul style="list-style-type: none"> <li>Overload operation, overcharge.</li> </ul>
	4 Time flash	Power transistor error	<ul style="list-style-type: none"> <li>Broken power transistor.</li> </ul>
	5 Time flash	Over heat of compressor	<ul style="list-style-type: none"> <li>Gas shortage.</li> <li>Defective discharge pipe sensor.</li> <li>Closed service valve.</li> </ul>
	6 Time flash	Error of signal transmission	<ul style="list-style-type: none"> <li>Defective power supply.</li> <li>Broken signal wire.</li> <li>Defective indoor/outdoor PCB.</li> </ul>
	7 Time flash	Outdoor fan motor error	<ul style="list-style-type: none"> <li>Defective fan motor, poor connector connection.</li> </ul>
	Keep flashing	Cooling high pressure protection	<ul style="list-style-type: none"> <li>Gas over charge</li> <li>Short circuit of outdoor unit air flow.</li> </ul>
RUN light 2 time flash	2 Time flash	Rotor lock	<ul style="list-style-type: none"> <li>Defective compressor.</li> <li>Open phase on compressor.</li> <li>Defective outdoor unit PCB</li> </ul>

## ERROR INDICATION FROM RUN & TIMER LIGHTS



Indoor unit indicator		Outdoor unit Indicator LED	Wired remote Controller display (optional part)	Description of Trouble	
RUN light	TIMER light				
1 time flash	Comes ON	Stays OFF	E6	Indoor heat exchanger sensor 1 error	<ul style="list-style-type: none"> <li>• Broken heat exchanger sensor 1 wire,</li> <li>• Poor connector connection</li> </ul>
2 time flash	Comes ON	Stays OFF	E7	Room temperature sensor error	<ul style="list-style-type: none"> <li>• Broken room temperature sensor wire,</li> <li>• Poor connector connection</li> </ul>
4 time flash	Comes ON	Stays OFF	E9	Drain abnormal (STM. SRRM only)	<ul style="list-style-type: none"> <li>• Float switch defective,</li> <li>• Reverse gradient on drain</li> </ul>
5 time flash	Comes ON	Stays OFF	E6	Indoor heat exchanger Sensor 2 error	<ul style="list-style-type: none"> <li>• Broken heat exchanger sensor 2 wire,</li> <li>• Poor connector connection</li> </ul>
6 time flash	Comes ON	Stays OFF	E16	Indoor fan motor error	<ul style="list-style-type: none"> <li>• Defective fan motor,</li> <li>• poor connector connection</li> </ul>
7 time flash	Comes ON	Stays OFF	E6	Refrigerant insufficient Closed service valve Heat exchanger sensor 1 error	<ul style="list-style-type: none"> <li>• Refrigerant is insufficient, leaking</li> <li>• Closed service valve</li> <li>• Heat exchanger sensor 1 wire,</li> <li>• poor connector connection</li> </ul>
Keeps flashing	1 time flash	Keeps flashing	E38	Outdoor air temperature sensor error	<ul style="list-style-type: none"> <li>• Broken outdoor sensor wire,</li> <li>• poor connector connection</li> </ul>
Keeps flashing	2 time flash	Keeps flashing	E37	Outdoor heat exchanger sensor error	<ul style="list-style-type: none"> <li>• Broken heat exchanger fluid pipe sensor wire,</li> <li>• poor connector connection</li> </ul>
Keeps flashing	4 time flash	ON 4 sec OFF 4 sec	E39	Discharge pipe sensor error	<ul style="list-style-type: none"> <li>• Broken discharge pipe sensor wire,</li> <li>• poor connector connection</li> </ul>
Keeps flashing	5 time flash	Keeps flashing	E53	Suction pipe sensor error	<ul style="list-style-type: none"> <li>• Broken suction pipe sensor wire,</li> <li>• poor connector connection</li> </ul>
Keeps flashing	6 time flash	Keeps flashing	E41	Power transistor sensor error	<ul style="list-style-type: none"> <li>• Broken power transistor sensor wire,</li> <li>• poor connector connection</li> </ul>

## ERROR INDICATION FROM RUN & TIMER LIGHTS



Indoor unit indicator		Outdoor unit Indicator LED	Wired remote Controller display (optional part)	Description of trouble	
RUN light	TIMER light				
Comes ON	1 time flash	1 time flash	E42	Current cut	<ul style="list-style-type: none"> <li>Compressor locking</li> <li>Open phase on compressor output</li> <li>Short circuit on power transistor</li> </ul>
Comes ON	2 time flash	2 time flash	E59	Trouble of outdoor unit	<ul style="list-style-type: none"> <li>Defective power transistor</li> <li>Broken compressor wire</li> <li>Compressor blockage</li> </ul>
Comes ON	3 time flash	3 time flash	E58	Current safe stop	<ul style="list-style-type: none"> <li>Overload operation</li> <li>Overcharged</li> </ul>
Comes ON	4 time flash	4 time flash	E41	Power transistor error	<ul style="list-style-type: none"> <li>Broken power transistor</li> </ul>
Comes ON	5 time flash	5 time flash	E36	Over heat of compressor	<ul style="list-style-type: none"> <li>Gas shortage</li> <li>Defective discharge pipe sensor</li> </ul>
Comes ON	6 time flash	6 time flash	E5	Error of signal transmission	<ul style="list-style-type: none"> <li>Defective power supply</li> <li>Broken signal wire</li> <li>Defective indoor/outdoor PCB</li> </ul>
Comes ON	7 time flash	Comes ON	E48	Outdoor fan motor error	<ul style="list-style-type: none"> <li>Defective fan motor</li> <li>Poor connector connection</li> </ul>
2 time flash	2 time flash	7 time flash	E1	Error of wired remote controller wiring	<ul style="list-style-type: none"> <li>Broken remote control wire</li> <li>Defective indoor unit PCB</li> </ul>

# ERROR CODES – R22 & R407C Units

Black = All Units  
 Red = 4, 5, 6 & 7 Series  
 Blue = 8 Series  
 Green = KX / KX2 / KXR



Technical Support  
 Spares & Warranty  
 01359 272211



Check Indications						Fault at:	Details of fault
Receiver Unit [if applicable]		Indoor Circuit Board		Outdoor Circuit Board			
Error Code	Red LED	Red LED	Green LED	Red LED	Green LED		
No indication	-	Stays Off	Keeps Flashing	Stays Off	Keeps Flashing	No Fault	<ul style="list-style-type: none"> <li>Normal operation.</li> </ul>
	-	Stays Off	Lights Continuously	Stays Off	Lights Continuously	Indoor circuit board	<ul style="list-style-type: none"> <li>There is a unit, on the same network, where the indoor circuit board or the CPU has a fault.</li> </ul>
	-	Stays Off	Stays Off	Stays Off	Stays Off	Mains power	<ul style="list-style-type: none"> <li>No mains power detected [power off or power failure].</li> <li>T phase wire is open circuit.</li> </ul>
	-	Flashes 3 times	Keeps Flashing	Stays Off	Keeps Flashing	Remote controller wiring	<ul style="list-style-type: none"> <li>Remote controller wires - X &amp; Y connections are reversed.</li> <li>Remote controller wires - Y &amp; Z connections are reversed.</li> <li>Remote controller wiring is open circuit. (X wire broken - a beep is produced and no indication is made. Z wire broken - no beep and no indication).</li> </ul>
	Stays Off	Flashes 3 times	Keeps Flashing	Stays Off	Keeps Flashing	Infra red receiver wiring	<ul style="list-style-type: none"> <li>Open circuit or poor connection in receiver unit wiring. (Power - red. Ground - black)</li> </ul>

E1	Keeps Flashing	(1) Lights or Stays Off	Undefined	Stays Off	Keeps Flashing	Indoor circuit board	<ul style="list-style-type: none"> <li>Indoor circuit board or CPU failure.</li> </ul>
	Keeps Flashing	Flashes 3 Times	Keeps Flashing	Stays Off	Keeps Flashing	Infra-red receiver	<ul style="list-style-type: none"> <li>Open circuit or poor connection in the signal cable (white) of the infra red receiver unit.</li> <li>Electrical noise interference of the infra red receiver unit.</li> </ul>
	-	-	-	-	-	Remote controller wiring	<ul style="list-style-type: none"> <li>Open circuit or poor connection of remote controller wiring.</li> <li>Electrical noise interference of the remote controller wiring. (Other electrical sources are too close to the controller cable causing interference)</li> </ul>
	-	-	-	-	-	Indoor circuit board	<ul style="list-style-type: none"> <li>Defective communication circuit on indoor circuit board</li> </ul>
	-	-	-	-	-	Indoor circuit board	<ul style="list-style-type: none"> <li>Indoor circuit board fault.</li> </ul>
	-	Stays Off	Keeps Flashing	Stays Off	Keeps Flashing	Interconnecting wiring	<ul style="list-style-type: none"> <li>The remote controller wires XY&amp;Z are connected to A &amp; B terminals on the indoor unit terminal block.</li> <li>The indoor/outdoor signal wires A &amp; B are connected in a loop.</li> <li>Indoor circuit board or CPU fault.</li> </ul>
	-	(3) Flashes 3 times	Keeps Flashing	Stays Off	Keeps Flashing	Remote controller wiring	<ul style="list-style-type: none"> <li>A PAC remote controller is connected to the KX indoor unit.</li> <li>Remote controller wire Y is open circuit.</li> <li>Remote controller wires - X &amp; Y connections are reversed.</li> </ul>

E2	-	Flashes once	Keeps Flashing	Stays Off	Keeps Flashing	Indoor unit address	<ul style="list-style-type: none"> <li>Duplication of indoor unit address.</li> <li>More than 49 indoor units are connected on a network.</li> </ul>
	-	Stays Off	Keeps Flashing	Stays Off	Keeps Flashing	Indoor unit address	<ul style="list-style-type: none"> <li>Duplication of indoor unit number when addressing with the remote controller.</li> </ul>

E3	Keeps Flashing	Flashes Twice	Keeps Flashing	Stays Off	Stays Off	Power supply	<ul style="list-style-type: none"> <li>No mains power at indoor or outdoor unit [power off or power failure].</li> <li>Outdoor unit circuit board fault.</li> </ul>
	Keeps Flashing	Flashes Twice	Keeps Flashing	Stays Off	Keeps Flashing	Interconnecting cable	<ul style="list-style-type: none"> <li>Open circuit or poor connection of the outdoor unit control cable.</li> <li>Incorrect address of the outdoor unit</li> </ul>
	Keeps Flashing	Flashes Twice	Keeps Flashing	(1) Lights or Stays Off	Undefined	Outdoor unit power	<ul style="list-style-type: none"> <li>No mains power at outdoor unit [power off or power failure].</li> <li>Outdoor unit circuit board fault.</li> </ul>
	Keeps Flashing	Flashes Twice	Keeps Flashing	Flashes 3 Times	Keeps Flashing	Outdoor unit address	<ul style="list-style-type: none"> <li>Incorrect address of the outdoor unit.</li> </ul>
	-	Flashes twice	Keeps Flashing	Lights or Stays Off	Undefined	Outdoor circuit board	<ul style="list-style-type: none"> <li>Outdoor unit circuit board fault.</li> </ul>
	-	Flashes twice	Keeps Flashing	Stays Off	Keeps Flashing	Incorrect address	<ul style="list-style-type: none"> <li>Incorrect address of the indoor unit.</li> <li>Incorrect address of the indoor unit and/or outdoor unit while trying to auto address [KX2 only].</li> </ul>
	-	Flashes twice	Keeps Flashing	Stays Off	Keeps Flashing	Interconnecting cable	<ul style="list-style-type: none"> <li>Open circuit or poor connection of outdoor unit control cable [Outdoor unit address not detected].</li> </ul>
	-	Flashes twice	Keeps Flashing	Stays Off	Stays Off	Outdoor unit power	<ul style="list-style-type: none"> <li>No mains power at outdoor unit.</li> </ul>

E4	Keeps Flashing	Flashes Once	Keeps Flashing	Stays Off	Keeps Flashing	Incorrect address	<ul style="list-style-type: none"> <li>Incorrect address of the indoor / outdoor unit.</li> </ul>
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E5	Keeps Flashing	Flashes Twice	Keeps Flashing	Flashes Twice	Keeps Flashing	Interconnecting cable	<ul style="list-style-type: none"> <li>Open circuit or poor connection of the outdoor unit control cable.</li> <li>Electrical noise interference of the interconnecting control wiring. (Other electrical sources are too close to the controller cable causing interference)</li> </ul>
	Keeps Flashing	Flashes Twice	Keeps Flashing	Stays Off	Stays Off	Outdoor unit power	<ul style="list-style-type: none"> <li>No mains power at outdoor unit [power off or power failure].</li> <li>The power cable is not connected to the outdoor circuit board.</li> </ul>
	Keeps Flashing	Flashes Twice	Keeps Flashing	(1) Lights or Stays Off	Undefined	Electrical noise	<ul style="list-style-type: none"> <li>The outdoor unit circuit board or CPU is out of control while current is flowing.</li> </ul>
	-	Flashes twice	Keeps Flashing	32 sec Time flash	Stays Off or Lights Continuously	Outdoor circuit board	<ul style="list-style-type: none"> <li>Outdoor unit circuit board or CPU failure.</li> </ul>
	-	Flashes twice	Keeps Flashing	Stays Off	Keeps Flashing	Interconnecting cable	<ul style="list-style-type: none"> <li>Indoor/outdoor unit transmission error. Wires A &amp; B have been swapped after mains power was turned on.</li> </ul>
	-	Flashes twice	Keeps Flashing	Stays Off	Stays Off	Outdoor unit power	<ul style="list-style-type: none"> <li>No mains power at outdoor unit [power off or power failure].</li> </ul>

E6	-	Flashes Once	Keeps Flashing	Stays Off	Keeps Flashing	Indoor coil sensor	<ul style="list-style-type: none"> <li>Indoor unit heat exchanger sensor [ThIR] defective (resistance is open circuit or closed circuit).</li> <li>Poor connection of sensor connector on the indoor PCB.</li> </ul>
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E7	-	Flashes Once	Keeps Flashing	Stays Off	Keeps Flashing	Indoor return air sensor	<ul style="list-style-type: none"> <li>Indoor unit return sensor [ThIA] defective (resistance is open circuit or closed circuit).</li> <li>Poor connection of sensor connector on the indoor PCB.</li> </ul>
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E8	Keeps Flashing	Flashes Once	Keeps Flashing	Stays Off	Keeps Flashing	Heating overload	• Overload in heating (extraordinarily high indoor heat exchanger temperature).
						Indoor coil sensor	• Indoor unit heat exchanger sensor [ThIR] failure (resistance of sensor is closed circuit).
						Indoor circuit board	• Abnormality of the heat exchanger sensor input.
E9	-	Flashes Once	Keeps Flashing	Stays Off	Keeps Flashing	Condensate drain motor	• Drain motor [DM] failure (drain motor open circuit or the drain motor is disconnected from the indoor PCB).
						Condensate float switch	• High limit of condensate still detected in drain tray (the drain motor can not remove the condensate – blockage in discharge pipe or condensate returning to drain tray). • Float switch stuck in high position.
						Wiring of accessory	• Incorrect wiring of condensate drain kit (typically on wall mounted indoor units).
						Indoor circuit board	• Defective float switch input circuit on indoor PCB. • Defective drain motor output circuit on indoor PCB.
E10	-	Stays Off	Keeps Flashing	Stays Off	Keeps Flashing	Number of indoor units connected	• 17 or more indoor units are connected to one remote controller (maximum permitted: 16 indoor units)
E11	-	Stays Off	Keeps Flashing	Stays Off	Keeps Flashing	Indoor unit address	• More than one indoor unit is connected to a remote controller while trying to address the unit from the remote controller.
E12	-	Flashes once	Keeps Flashing	Stays Off	Keeps Flashing	Incorrect address	• One or more units (indoor or outdoor) are still addressed at 48 or 49 [factory setting] • While trying to auto address, one or more of the units (either indoor or outdoor) is not set at 49. • Auto address is not possible on the system you are commissioning (Auto address is only possible on a single KX2 system).
E14	-	-	-	-	-	Master / slave set up	• Incorrect setting of SW2 on indoor unit PCB when setting up a master / slave system. • Incorrect control wiring between master and slave(s) [XYZ]. • Open circuit of control wiring between master and slave(s).
E28	-	Stays Off	Keeps Flashing	Stays Off	Keeps Flashing	Remote controller sensor	• Failure of the sensor within the remote controller.
E30	-	Stays Off	Keeps Flashing	Flashes once	Keeps Flashing	-	• Indoor/outdoor unit connected error.



E31	Keeps Flashing	Stays Off	Keeps Flashing	Flashes Twice	Keeps Flashing	Indoor unit address	<ul style="list-style-type: none"> <li>• Duplication of an indoor unit address number (U00 – U47).</li> </ul>
	-	Stays Off	Keeps Flashing	8 Time Flash	Keeps Flashing	Outdoor unit address	<ul style="list-style-type: none"> <li>• Duplication of outdoor unit address.</li> <li>• Incorrect outdoor unit address.</li> <li>• Outdoor unit address number has been changed since the power was turned on.</li> </ul>
E32	-	Stays Off	Keeps Flashing	Flashes Once	Keeps Flashing	Outdoor unit power	<ul style="list-style-type: none"> <li>• The anti phase device has detected that two phases of the mains power need to be swapped.</li> <li>• The [L2] phase of the mains power (primary side of contactor) has been detected as open phase.</li> </ul>
E33	Keeps Flashing	Stays Off	Keeps Flashing	Flashes Once	Keeps Flashing	Compressor current	<ul style="list-style-type: none"> <li>• Abnormally high current drawn by compressor (CM).</li> <li>• Open phase detected at L1 or L3 (secondary side of contactor).</li> <li>• Faulty outdoor unit PCB.</li> </ul>
	-	Stays Off	Keeps Flashing	Flashes Once	Keeps Flashing	Compressor current	<ul style="list-style-type: none"> <li>• Abnormal current drawn by inverter compressor (CM1).</li> <li>• Abnormally high current drawn by fixed speed compressor (CM2).</li> </ul>
E34	Keeps Flashing	Stays Off	Keeps Flashing	Flashes Twice	Keeps Flashing	Compressor current	<ul style="list-style-type: none"> <li>• Abnormally low current (or no current) detected by [CT] on L3.</li> <li>• Open phase detected at L3 (secondary side of contactor).</li> </ul>
	-	Stays Off	Keeps Flashing	Flashes Once	Keeps Flashing	Compressor current	<ul style="list-style-type: none"> <li>• Abnormally low current (or no current) detected by [CT] on L3.</li> <li>• Open phase detected at L3 (secondary side of contactor).</li> <li>• Error on inverter board.</li> </ul>
E35	-	Stays Off	Keeps Flashing	Flashes Once	Keeps Flashing	Compressor discharge temperature	<ul style="list-style-type: none"> <li>• The discharge gas temperature is abnormally high (&gt;70°C).</li> <li>• Insufficient refrigerant.</li> </ul>
	-	Stays Off	Keeps Flashing	Flashes Once	Keeps Flashing	Outdoor heat exchanger sensor	<ul style="list-style-type: none"> <li>• Outdoor unit heat exchanger sensor [ThOR] defective (resistance is open circuit or closed circuit).</li> <li>• Poor connection of sensor connector on the outdoor unit PCB.</li> </ul>
E36	Keeps Flashing	Stays Off	Keeps Flashing	Flashes Once	Keeps Flashing	Compressor discharge temperature	<ul style="list-style-type: none"> <li>• The discharge temperature is abnormally high.</li> <li>• Insufficient refrigerant.</li> <li>• Poor airflow through condenser coil.</li> <li>• Compressor discharge temperature sensor [ThOD] defective.</li> </ul>
	-	Stays Off	Keeps Flashing	Flashes 5 Times	Keeps Flashing		
	-	Stays Off	Keeps Flashing	Flashes once	Keeps Flashing		
E37	Keeps Flashing	Stays Off	Keeps Flashing	Flashes Once	Keeps Flashing	Outdoor heat exchanger sensor	<ul style="list-style-type: none"> <li>• Outdoor unit heat exchanger sensor [ThOR] defective (resistance is open circuit).</li> <li>• Poor connection of sensor connection on outdoor unit PCB.</li> </ul>
	-	Stays Off	Keeps Flashing	Keeps Flashing	Keeps Flashing		
	-	Stays Off	Keeps Flashing	Flashes once	Keeps Flashing		

E38	Keeps Flashing	Stays Off	Keeps Flashing	Flashes Once	Keeps Flashing	Outdoor air sensor	<ul style="list-style-type: none"> <li>• Outside air temperature sensor [ThoA] defective (resistance is open circuit).</li> <li>• Poor connection of sensor connection on outdoor unit PCB.</li> </ul>
	-	Stays Off	Keeps Flashing	Keeps Flashing	Keeps Flashing		
	-	Stays Off	Keeps Flashing	Flashes once	Keeps Flashing		
E39	Keeps Flashing	Stays Off	Keeps Flashing	Flashes Once	Keeps Flashing	Compressor discharge temperature sensor	<ul style="list-style-type: none"> <li>• Compressor discharge temperature sensor [ThOD] defective (resistance is open circuit).</li> <li>• Poor connection of sensor connection on outdoor unit PCB.</li> </ul>
	-	Stays Off	Keeps Flashing	Keeps Flashing	Keeps Flashing		
	-	Stays Off	Keeps Flashing	Flashes once	Keeps Flashing		
E40	-	Stays Off	Keeps Flashing	Flashes Once	Keeps Flashing	High pressure switch	<ul style="list-style-type: none"> <li>• The high-pressure switch [63H or 63H1] has tripped.</li> <li>• System overcharged with refrigerant.</li> <li>• One (or more) of the service valves is shut.</li> <li>• Insufficient airflow (or no airflow) over the condensercoil.</li> </ul>
	-	Stays Off	Keeps Flashing	Flashes 3 Times	Keeps Flashing		
	-	Stays Off	Keeps Flashing	Flashes once	Keeps Flashing		
E41	-	Stays Off	Keeps Flashing	Flashes once	Keeps Flashing	Inverter power transistor	<ul style="list-style-type: none"> <li>• The power transistor for the inverter has overheated.</li> </ul>
E42	-	Stays Off	Keeps Flashing	Flashes once	Keeps Flashing	Compressor current	<ul style="list-style-type: none"> <li>• Abnormally high current detected in inverter compressor.</li> </ul>
E43	-	Stays Off	Keeps Flashing	Flashes once	Keeps Flashing	Number of indoor units	<ul style="list-style-type: none"> <li>• The maximum number of indoor units connected to one outdoor unit has been exceeded.</li> </ul>
E45	-	Stays Off	Keeps Flashing	Flashes once	Keeps Flashing	Inverter wiring	<ul style="list-style-type: none"> <li>• Transmission error between inverter and outdoor unit PCB.</li> <li>• Loose connection of [Cn]</li> </ul>
E46	-	Stays Off	Keeps Flashing	Flashes once	Keeps Flashing	Address setting	<ul style="list-style-type: none"> <li>• There is a conflict of address settings.</li> <li>• A combination of: automatic / manual / remote control addresses coexist on one network.</li> </ul>
E57	-	-	-	-	-	Refrigerant circuit	<ul style="list-style-type: none"> <li>• Refrigerant leak or shortage of refrigerant.</li> </ul>
						Indoor heat exchanger sensor	<ul style="list-style-type: none"> <li>• Indoor unit heat exchanger sensor [ThiR] is defective (short circuit).</li> </ul>
						Indoor unit circuit board	<ul style="list-style-type: none"> <li>• Indoor unit PCB defective (defective sensor input circuit).</li> </ul>
						Address setting	<ul style="list-style-type: none"> <li>• Incorrect addressing of SW1 when commissioning a Multi System.</li> </ul>

# ERROR CODES – R410A

Black = All R410A

Red = FD Split 1, 2 Series R410A

Blue = KX4 & KXR4 Series R410A

Technical Support  
Spares & Warranty  
01359 272211



(does not cover SRK & SCM MODELS)

Error Code	Indoor Circuit Board		Outdoor Circuit Board		Details of Fault
	Red LED	Green LED	Red LED	Green LED	

No indication	Stays Off	Keeps Flashing	Stays Off	Keeps Flashing	<ul style="list-style-type: none"> <li>Normal operation.</li> </ul>
	Stays Off	Stays Off	Stays Off	Stays Off	<ul style="list-style-type: none"> <li>No mains power detected [power off or power failure].</li> <li>L phase wire is open circuit.</li> </ul>
	Flashes 3 times	Keeps Flashing	Stays Off	Keeps Flashing	<ul style="list-style-type: none"> <li>Remote controller wires - X &amp; Y connections are reversed.</li> <li>Remote controller wires - Y &amp; Z connections are reversed.</li> <li>Remote controller wiring is open circuit. (X wire broken - a beep is produced and no indication is made. Z wire broken -no beep and no indication).</li> </ul>

LCD Flashes continuously or Off	Stays Off	Keeps Flashing	Flashes Twice	Keeps Flashing	<ul style="list-style-type: none"> <li>Open Circuit or poor indoor/outdoor interconnecting wiring</li> </ul>
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E1	Stays Off	Off or On continuously	Stays Off	Keeps Flashing	<ul style="list-style-type: none"> <li>Indoor circuit board or CPU failure.</li> </ul>
	Off or On continuously	Off or On continuously	Stays Off	Keeps Flashing	<ul style="list-style-type: none"> <li>Indoor circuit board or CPU failure.</li> </ul>
	Stays Off	Keeps Flashing	Stays Off	Keeps Flashing	<ul style="list-style-type: none"> <li>In group control, power supply to at least one indoor unit off</li> <li>Remote controller wire Y is open circuit</li> <li>Remote controller wires X and Y are reversed</li> <li>Faulty Indoor or Remote controller PCB</li> <li>Electrical noise interference</li> </ul>
	Stays Off	Keeps Flashing	Stays Off	Keeps Flashing	<ul style="list-style-type: none"> <li>Remote controller wiring connected to A and B</li> <li>A and B wiring connected in closed loop</li> <li>Indoor unit PCB processor runs away</li> </ul>
	Flashes 3 times	Keeps Flashing	Stays Off	Keeps Flashing	<ul style="list-style-type: none"> <li>Remote controller wiring open circuit</li> </ul>



E2	Flashes once	Keeps Flashing	Stays Off	Keeps Flashing	<ul style="list-style-type: none"> <li>Duplication of indoor unit address.</li> <li>More than 49 indoor units are connected on a network.</li> </ul>
E3	Flashes Twice	Keeps Flashing	Stays Off	Stays Off	<ul style="list-style-type: none"> <li>No mains power at outdoor unit [power off or power failure].</li> </ul>
	Flashes Twice	Keeps Flashing	Stays Off	Keeps Flashing	<ul style="list-style-type: none"> <li>Incorrect address setting of the outdoor unit</li> </ul>
	Flashes Twice	Keeps Flashing	On or Stays Off	Undefined	<ul style="list-style-type: none"> <li>No mains power at outdoor unit [power off or power failure].</li> </ul>
E5	Flashes Twice	Keeps Flashing	Flashes Twice	Keeps Flashing	<ul style="list-style-type: none"> <li>Outdoor/Indoor communication error</li> </ul>
	Flashes Twice	Keeps Flashing	Stays Off	Stays Off	<ul style="list-style-type: none"> <li>Outdoor unit control PCB failure</li> <li>Inverter parts faulty</li> </ul>
	Flashes Twice	Keeps Flashing	Stays Off	Stays Off	<ul style="list-style-type: none"> <li>The outdoor power unit failure (where indoor/outdoor power supplies are separated)</li> <li>Indoor/outdoor communication error</li> <li>A and B wiring reversed after power on</li> </ul>
	Flashes twice	Keeps Flashing	Stays Off	Keeps Flashing or irregular	<ul style="list-style-type: none"> <li>Outdoor unit microcomputer failure</li> </ul>
E6	Flashes Once	Keeps Flashing	Stays Off	Keeps Flashing	<ul style="list-style-type: none"> <li>Indoor unit heat exchanger sensor [ThIR] defective (resistance is open circuit or closed circuit).</li> <li>Poor connection of sensor connector on the indoor PCB.</li> </ul>
E7	Flashes Once	Keeps Flashing	Stays Off	Keeps Flashing	<ul style="list-style-type: none"> <li>Indoor unit return sensor [ThIA] defective (resistance is open circuit or closed circuit).</li> <li>Poor connection of sensor connector on the indoor PCB.</li> </ul>
E8	Flashes Once	Keeps Flashing	Stays Off	Keeps Flashing	<ul style="list-style-type: none"> <li>Overload in heating (extraordinarily high indoor heat exchanger temperature).</li> </ul>
					<ul style="list-style-type: none"> <li>Indoor unit heat exchanger sensor [ThIR] failure (resistance of sensor is closed circuit).</li> </ul>
E9	Flashes Once	Keeps Flashing	Stays Off	Keeps Flashing	<ul style="list-style-type: none"> <li>Drain motor [DM] failure (drain motor open circuit or the drain motor is disconnected from the indoor PCB).</li> </ul>
					<ul style="list-style-type: none"> <li>Condensate still detected in drain tray (the drain motor can not remove the condensate – blockage in discharge pipe or condensate returning to drain tray).</li> </ul>
					<ul style="list-style-type: none"> <li>Float switch stuck in high position.</li> </ul>
					<ul style="list-style-type: none"> <li>Defective float switch input circuit on indoor PCB.</li> <li>Defective drain motor output circuit on indoor PCB.</li> </ul>
E10	Stays Off	Keeps Flashing	Stays Off	Keeps Flashing	<ul style="list-style-type: none"> <li>17 or more indoor units are connected to one remote controller (maximum permitted: 16 indoor units)</li> </ul>
E11	Stays Off	Keeps Flashing	Stays Off	Keeps Flashing	<ul style="list-style-type: none"> <li>More than one indoor unit is connected to a remote controller while trying to address the unit from the remote controller.</li> </ul>



E12	Flashes once	Keeps Flashing	Stays Off	Keeps Flashing	<ul style="list-style-type: none"> <li>One or more units (indoor or outdoor) are still addressed at 48 or 49 [factory setting]</li> <li>While trying to auto address, one or more of the units (either indoor or outdoor) is not set at 49.</li> <li>Auto address is not possible on the system you are commissioning (Auto address is only possible on a single KX2 system).</li> </ul>
E14	Flashes 3 times	Keeps Flashing	Stays off	Keeps Flashing	<ul style="list-style-type: none"> <li>Incorrect setting of SW5 on indoor unit PCB when setting up a master / slave system.</li> <li>Incorrect control wiring between master and slave(s) [XYZ].</li> <li>Open circuit of control wiring between master and slave(s).</li> </ul>
E16	Stays off	Keeps Flashing	Stays off	Keeps Flashing	<ul style="list-style-type: none"> <li>Faulty indoor fan motor</li> </ul>
	Flashes once	Keeps Flashing	Stays off	Keeps Flashing	<ul style="list-style-type: none"> <li>Faulty indoor fan motor</li> </ul>
E28	Stays Off	Keeps Flashing	Stays Off	Keeps Flashing	<ul style="list-style-type: none"> <li>Failure of the sensor within the remote controller.</li> </ul>
E30	Stays Off	Keeps Flashing	Flashes once	Keeps Flashing	<ul style="list-style-type: none"> <li>Indoor/outdoor unit connected error.</li> </ul>
E31	Stays Off	Keeps Flashing	Flashes Once	Keeps Flashing	<ul style="list-style-type: none"> <li>Duplication of an indoor unit address number (U00 – U47).</li> <li>Outdoor unit address setting error</li> </ul>
E32	Stays Off	Keeps Flashing	Flashes Once	Keeps Flashing	<ul style="list-style-type: none"> <li>The anti phase device has detected that two phases of the mains power need to be swapped.</li> <li>The [L2] phase of the mains power (primary side of contactor) has been detected as open phase.</li> </ul>
E34	Stays Off	Keeps Flashing	Flashes Once	Keeps Flashing	<ul style="list-style-type: none"> <li>Abnormally low current (or no current) detected by [CT] on L3.</li> <li>Open phase detected at L3 (secondary side of contactor).</li> </ul>
E35	Stays Off	Keeps Flashing	Flashes Once	Keeps Flashing	<ul style="list-style-type: none"> <li>Outdoor unit heat exchanger sensor [ThOR] defective (resistance is open circuit or closed circuit).</li> <li>Poor connection of sensor connector on the outdoor unit PCB.</li> </ul>
	Stays Off	Keeps Flashing	Flashes Once	Keeps Flashing	<ul style="list-style-type: none"> <li>Cooling high pressure</li> </ul>
E36	Stays Off	Keeps Flashing	Flashes Once	Keeps Flashing	<ul style="list-style-type: none"> <li>The discharge temperature is abnormally high.</li> <li>Insufficient refrigerant.</li> <li>Compressor discharge temperature sensor [ThOD] defective.</li> </ul>



E37	Stays Off	Keeps Flashing	Flashes Once	Keeps Flashing	<ul style="list-style-type: none"> <li>Outdoor unit heat exchanger sensor [ThOR] defective (resistance is open circuit).</li> <li>Poor connection of sensor connection on outdoor unit PCB.</li> </ul>	
	Stays Off	Keeps Flashing	One time Flash	Keeps Flashing	E37-1	Outdoor heat exch thermistor failure (Tho-R1)
			Two time Flash		E37-2	Outdoor heat exch thermistor failure (Tho-R2)
			Three time Flash		E37-3	Outdoor heat exch thermistor failure (Tho-R3)
			Four time Flash		E37-4	Outdoor heat exch thermistor failure (Tho-R4)
			Five time Flash		E37-5	Outdoor heat exch thermistor failure (Tho-SC)
			Six time Flash		E37-6	Outdoor heat exch thermistor failure (Tho-H)

E38	Stays Off	Keeps Flashing	Flashes Once	Keeps Flashing	<ul style="list-style-type: none"> <li>Outside air temperature sensor [ThoA] defective (resistance is open circuit).</li> <li>Poor connection of sensor connection on outdoor unit PCB.</li> </ul>	
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E39	Stays Off	Keeps Flashing	Flashes Once	Keeps Flashing	<ul style="list-style-type: none"> <li>Compressor discharge temperature sensor [ThOD] defective (resistance is open circuit).</li> <li>Poor connection of sensor connection on outdoor unit PCB.</li> </ul>	
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E40	Stays Off	Keeps Flashing	Flashes Once	Keeps Flashing	<ul style="list-style-type: none"> <li>The high-pressure switch [63H or 63H1] has tripped.</li> <li>System overcharged with refrigerant.</li> <li>One (or more) of the service valves is shut.</li> <li>Insufficient airflow (or no airflow) over the condensercoil.</li> </ul>	
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E41	Stays Off	Keeps Flashing	Flashes once	Keeps Flashing	<ul style="list-style-type: none"> <li>The power transistor for the inverter has overheated.</li> </ul>	
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E42	Stays Off	Keeps Flashing	Flashes once	Keeps Flashing	<ul style="list-style-type: none"> <li>Abnormally high current detected in compressor.</li> </ul>	
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E43	Stays Off	Keeps Flashing	Flashes once	Keeps Flashing	<ul style="list-style-type: none"> <li>The maximum number of indoor units connected to one outdoor unit has been exceeded.</li> </ul>	
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E45	Stays Off	Keeps Flashing	Flashes once	Keeps Flashing	<ul style="list-style-type: none"> <li>Transmission error between inverter and outdoor unit PCB.</li> <li>Loose connection of [Cn]</li> </ul>	
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E46	Stays Off	Keeps Flashing	Off	Keeps Flashing	<ul style="list-style-type: none"> <li>• There is a conflict of address settings.</li> <li>• A combination of: automatic / manual / remote control addresses coexist on one network.</li> </ul>	
E47	Stays Off	Keeps Flashing	Flashes once	Keeps Flashing	<ul style="list-style-type: none"> <li>• Inverter over voltage</li> </ul>	
E48	Stays Off	Keeps Flashing	Flashes once	Keeps Flashing	<ul style="list-style-type: none"> <li>• DC Outdoor Fan motor fault</li> </ul>	
E49	Stays Off	Keeps Flashing	Flashes once	Keeps Flashing	<ul style="list-style-type: none"> <li>• Low pressure fault</li> </ul>	
	Stays Off	Keeps Flashing	Flashes once	Keeps Flashing	<ul style="list-style-type: none"> <li>• Low voltage detected</li> </ul>	
E51	Stays Off	Keeps Flashing	Flashes once	Keeps Flashing	<ul style="list-style-type: none"> <li>• Inverter PCB fault</li> </ul>	
	Stays Off	Keeps Flashing	Flashes once or twice	Keeps Flashing	<ul style="list-style-type: none"> <li>• Power transistor overheat</li> </ul>	
E53	Stays Off	Keeps Flashing	Flashes once	Keeps Flashing	<ul style="list-style-type: none"> <li>• Suction pipe thermistor (Tho-S) disconnected</li> </ul>	
E54	Stays Off	Keeps Flashing	Flashes once	Keeps Flashing	<ul style="list-style-type: none"> <li>• Low pressure sensor (PSL) disconnected/output error</li> </ul>	
	Stays Off	Keeps Flashing	Flashes once	Keeps Flashing	E54-1	<ul style="list-style-type: none"> <li>• Low pressure sensor (PSL) disconnection/output error</li> </ul>
			Flashes twice		E54-2	<ul style="list-style-type: none"> <li>• High pressure sensor (PSH) disconnection/output error</li> </ul>
E55	Stays Off	Keeps Flashing	Flashes once	Keeps Flashing	<ul style="list-style-type: none"> <li>• Compressor under dome thermistor disconnected</li> </ul>	
E56	Stays Off	Keeps Flashing	Flashes once	Keeps Flashing	<ul style="list-style-type: none"> <li>• Power transistor thermistor faulty or disconnected (FDCVA151-251)</li> </ul>	
E57	Stays Off	Keeps Flashing	Flashes once	Keeps Flashing	<ul style="list-style-type: none"> <li>• Refrigerant leak or shortage of refrigerant (FDCVA151-251)</li> </ul>	
E59	Stays Off	Keeps Flashing	1 to 5 times flash	Keeps Flashing	<ul style="list-style-type: none"> <li>• Compressor start-up error</li> </ul>	
E60	Stays Off	Keeps Flashing	Flashes once or twice	Keeps Flashing	<ul style="list-style-type: none"> <li>• Compressor position detection error</li> </ul>	
E63	Stays Off	Keeps Flashing	Flashes once	Keeps Flashing	<ul style="list-style-type: none"> <li>• Emergency stop of indoor unit</li> </ul>	





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## 2.3 Contents of troubleshooting

### (a) List of inspection displays

#### 1) Indoor and outdoor units

Remote controller error code	7-segment display	Name of inspection	Classification	Page
E1	–	Remote controller communication error	Communication error	63
E2	–	Duplicated indoor unit address	Address setting error	64
E3	–	Outdoor unit signal line error	Address pairing setting error	65
E5	–	Communication error during operation	Communication error	66
E6	–	Indoor heat exchanger temperature thermistor anomaly (Thi-R)	Thermistor wire breakage	67
E7	–	Indoor return air temperature thermistor anomaly (Thi-A)	Thermistor wire breakage	68
E9	–	Drain trouble	System error	69
E10	–	Excessive number of indoor units (more than 17 units) by controlling one remote controller	Communication error	70
E11	–	Address setting error of indoor units	Address setting error	70-1
E12	–	Address setting error by mixed setting method	Address setting error	71
E16	–	Indoor fan motor anomaly (FDT series)	DC fan motor error	72
	–	Indoor fan motor anomaly (FDK series)	DC fan motor error	73
E18	–	Address setting error of master and slave indoor units	Address setting error	73-1
E19	–	Indoor unit operation check drain motor check mode anomaly	Setting error	74
E28	–	Remote controller temperature thermistor anomaly (ThC)	Thermistor wire breakage	75
E30	E30	Unmatch connection of indoor and outdoor unit	System error	76
E31	E31	Duplicated outdoor unit address No.	Address setting error	77
E32	E32	Open L3 Phase on power supply at primary side	Site setting error	78
E36	E36-1, 2	Discharge pipe temperature anomaly (Tho-D1, D2)	System error	79
	E36-3	Liquid flooding anomaly	System error	80
E37	E37-1, 2, 3 E37-4, 5 E37-5, 6	Outdoor heat exchanger temperature thermistor (Tho-R) and subcooling coil temperature thermistor (Tho-SC, -H) anomaly	Thermistor wire breakage	81
E38	E38	Outdoor air temperature thermistor anomaly (Tho-A)	Thermistor wire breakage	82
E39	E39-1, 2	Discharge pipe temperature thermistor anomaly (Tho-D1, D2)	Thermistor wire breakage	83
E40	E40	High pressure anomaly (63H1-1, 2 activated)	System error	84
E41 (E51)	E41 (E51)-1, 2	Power transistor overheat	System error	85
E42	E42-1, 2	Current cut (CM1, 2)	System error	86
E43	E43-1 E43-2	Excessive number of indoor units connected, excessive total capacity of connection	Site setting error	87
E45	E45-1, 2	Communication error between inverter PCB and outdoor control (PCB)	Communication error	88
E46	–	Mixed address setting methods coexistent in same network	Address setting error	89
E48	E48-1, 2	Outdoor DC fan motor anomaly	DC fan motor error	90
E49	E49	Low pressure anomaly	System error	91
E53/E55	E53/E55-1, 2	Suction pipe temperature thermistor anomaly (Tho-S), Under-dome temperature thermistor anomaly (Tho-C1, C2)	Thermistor wire breakage	92
E54	E54-1 E54-2	High pressure sensor (PSH)/Low pressure sensor (PSL) anomaly	Thermistor wire breakage	93
E56	E56-1, 2	Power transistor temperature thermistor anomaly (Tho-P1, Tho-P2)	Thermistor wire breakage	94
E58	E58-1, 2	Anomalous compressor by loss of synchronism	System error	95
E59	E59-1, 2	Compressor startup failure (CM1, 2)	System error	96
E60	E60-1, 2	Rotor position detection failure (CM1, 2)	System error	97
E61	E61	Communication error between the master unit and slave units	System error	98
E63	E63	Emergency stop	Site setting error	99

#### 2) Optional controller in-use



SL-1N-E SL-2N-E SL-3N-E			Indoor unit control PCB		Outdoor unit control PCB		Location	Description of trouble	Repair method
Error code	Red LED	Red LED	Green LED	Red LED	Green LED	trouble			
E75	Keeps flashing	Stays OFF	Keeps flashing	Stays OFF	Keeps flashing	SL-1N-E SL-2N-E SL-3N-E	• Communication error (Defective communication circuit on the main unit of SL1N-E, SL2N-E or SL3N-E)	Replacement	



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## 2. PAC Fault Codes MAINTENANCE DATA

### 2.1 FDT, FDEN, FDU, FDUM, FDF series

#### 2.1.1 Diagnosing of microcomputer circuit

##### (1) Selfdiagnosis function

##### (a) Check indicator table

Whether a failure exists or not on the indoor unit can be know by the contents of remote control error code, indoor unit green LED (power pilot lamp and microcomputer normality pilot lamp) or red LED (check pilot lamp).

##### (i) Indoor unit

In case of these indoor unit errors, the outdoor control PCB Red LED stays OFF.							
Remote control	Indoor control PCB	Green LED (1)	Location of trouble	Description of trouble	Repair method	Reference page	
Error code	Red LED	Red LED					
		Stays OFF	Keeps flashing	—	• Normal operation	—	—
No-indication	Stays OFF	Stays OFF	Stays OFF	Indoor unit power supply	• Power OFF, broken wire/blown fuse, broken transformer wire	Repair	73
		* 3-time flash	Keeps flashing	Remote control wires	• Poor connection, breakage of remote control wire * For wire breaking at power ON, the LED is OFF.	Repair	74
				Remote control	• Defective remote control PCB	Replacement of remote control	
E1	WAIT or INSPECT I/U	Stays OFF	Keeps flashing	Indoor-outdoor units connection wire	• Poor connection, breakage of indoor-outdoor units connection wire	Repair	75 ~ 79
				Remote control	• Improper setting of master and slave by remote control		
				* Keeps flashing	Remote control wires (Noise)	• Poor connection of remote control signal wire (White)	Repair
		Stays OFF			Remote control indoor control	• Intrusion of noise in remote control wire	Replacement of
		2-time flash	Keeps flashing	PCB	* Defective remote control or indoor control PCB (defective communication circuit)?	remote control or PCB	
		flash	flashing	Indoor-outdoor units connection wire	• Poor connection of wire between indoor-outdoor units during operation (disconnection, loose connection)	Repair	
					• Anomalous communication between indoor-outdoor units by noise, etc.		
E5		2-time flash	Keeps flashing	(Noise)	• CPU-runaway on outdoor sub PCB	Power reset or Repair	81
				Outdoor sub PCB	* Occurrence of defective outdoor sub PCB on the way of power supply (defective communication circuit)?	Replacement of PCB	
E6		2-time flash	Keeps flashing	Outdoor sub PCB	• Defective outdoor sub PCB on the way of power supply	Replacement	
				Fuse	• Blown fuse	Replacement	
				Indoor heat exchanger temperature thermistor	• Defective indoor heat exchanger temperature thermistor (defective element, broken wire, short-circuit)	Replacement, repair of temperature thermistor	82
1-time flash	Keeps flashing		• Poor contact of temperature thermistor connector				
				Indoor control PCB	* Defective indoor control PCB (Defective temperature thermistor input circuit)?	Replacement of PCB	
E7		1-time flash	Keeps flashing	Indoor return air temperature thermistor	• Defective indoor return air temperature thermistor (defective element, broken wire, short-circuit)	Replacement, repair of temperature thermistor	83
					• Poor contact of temperature thermistor connector		
				Indoor control PCB	* Defective indoor control PCB (Defective temperature thermistor input circuit)?	Replacement of PCB	
E8		1-time flash	Keeps flashing	Installation or operating condition	• Heating over-load (Anomalous high indoor heat exchanger temperature)	Repair	
				Indoor heat exchanger temperature thermistor	• Defective indoor heat exchanger temperature thermistor (short-circuit)	Replacement of temperature thermistor	84
E14				Indoor control PCB	* Defective indoor control PCB (Defective temperature thermistor input circuit)?	Replacement of PCB	
		E16				Drain trouble	• Defective drain pump (DM), broken drain pump wire, disconnected connector
E9				1-time flash	Keeps flashing	Float switch	• Anomalous float switch operation (malfunction)
		E19		flash	flashing	Indoor control PCB	* Defective indoor control PCB (Defective float switch input circuit)
							* Defective indoor control PCB (Defective DM drive output circuit)?
				Option	• Defective optional parts (At optional anomalous input setting)	Repair	
				Number of connected indoor units	• When multi-unit control by remote control is performed, the number of units is over	Repair	86

Stays OFF	Keeps flashing	Address setting error	• Address setting error of indoor units	Repair	87
	Keeps flashing	Indoor unit No. setting	• No master is assigned to slaves.	Repair	90
		Remote control wires	• Anomalous remote control wire connection, broken wire between master and slave units		
1(2)-time flash	Keeps flashing	Fan motor	• <b>Defective fan motor</b>	Replacement, repair	92
		Indoor power PCB	• <b>Defective indoor power PCB</b>	Replacement	
1-time flash	Keeps flashing	Address setting error	• Address setting error of master and slave indoor units	Repair	90
1-time flash	Keeps flashing	Indoor control PCB	• <b>Improper operation mode setting</b>	Repair	91

Remote control		Indoor control PCB		Location of trouble	Description of trouble	Repair method	Reference page
Error code	Red LED	Red LED	Green LED (1)				
	Keeps flashing	1(2)-time flash	Keeps flashing	Fan motor	• Defective by rotation speed of fan motor	Replacement, repair	92
				Indoor power PCB	• Defective indoor power PCB	Replacement	
		1-time flash	Keeps flashing	Panel switch detection	• Defective panel switch operation (FDT only)	Repair	93
<b>E28</b>		Stays OFF	Keeps flashing	Remote control temperature thermistor	• Broken wire of remote control temperature thermistor	Repair	94

Notes (1) **Normal indicator lamp (Indoor unit: Green) extinguishes (or lights continuously) only when CPU is anomalous. It keeps flashing in any trouble other than anomalous CPU.**

(2) \* mark in the description of trouble means that, in ordinary diagnosis, it cannot identify the cause definitely, and, if the trouble is repaired by replacing the part, it is judged consequently that the replaced part was defective.

## (ii) Outdoor unit

Remote control		Indoor control PCB		Outdoor control PCB	Location of trouble	Description of trouble	Repair method	Reference page
Error code	Red LED	Red LED	Green LED	Red LED				
<b>E35</b>	Stays OFF	Keeps flashing	2-time flash		Installation, operation status	• Higher outdoor heat exchanger temperature	Repair	95
					Outdoor heat exchanger temperature sensor	• Defective outdoor heat exchanger temperature sensor	Replacement, repair of temperature sensor	
					Outdoor main PCB	* Defective outdoor main PCB (Defective temperature sensor input circuit)?	Replacement of PCB	
<b>E36</b>	Stays OFF	Keeps flashing	5-time flash		Installation, operation status	• Higher discharge temperature	Repair	96
					Discharge pipe temperature sensor	• Defective discharge pipe temperature sensor	Replacement, repair of temperature sensor	
					Outdoor main PCB	* Defective outdoor main PCB (Defective temperature sensor input circuit)?	Replacement of PCB	
<b>E37</b>	Stays OFF	Keeps flashing	8-time flash		Outdoor heat exchanger temperature sensor	• Defective outdoor heat exchanger temperature sensor, broken wire or poor connector connection	Replacement, repair of temperature sensor	97
					Outdoor main PCB	* Defective outdoor main PCB (Defective temperature sensor input circuit)?	Replacement of PCB	
<b>E38</b>	Stays OFF	Keeps flashing	8-time flash		Outdoor air temperature sensor	• Defective outdoor air temperature sensor, broken wire or poor connector connection	Replacement, repair of temperature sensor	98
					Outdoor main PCB	* Defective outdoor main PCB (Defective temperature sensor input circuit)?	Replacement of PCB	
<b>E39</b>	Keeps flashing	Stays OFF	Keeps flashing	8-time flash	Discharge pipe temperature sensor	• Defective discharge pipe temperature sensor, broken wire or poor connector connection	Replacement, repair of temperature sensor	99
					Outdoor main PCB	* Defective outdoor main PCB (Defective temperature sensor input circuit)?	Replacement of PCB	
		Stays OFF	Keeps flashing	4-time flash	Installation, operation status	• Service valve (gas side) closing operation	Replacement	100
<b>E42</b>	Stays OFF	Keeps flashing	1-time flash		Outdoor main PCB, compressor	• Current cut (Anomalous compressor over-current)	Replacement of PCB	101 · 102
					Installation, operation status	• Service valve closing operation	Repair	
<b>E47</b>	Stays OFF	Keeps flashing	1-time flash		Outdoor main PCB	• Over voltage	Repair PCB replacement	103
			2-time flash			• Defective active filter		
<b>E48</b>	Stays OFF	Keeps flashing	ON		Fan motor	• Defective fan motor	Replacement	104
					Outdoor main PCB	• Defective outdoor main PCB		
<b>E51</b>	Stays OFF	Keeps flashing	1-time flash		Power transistor error (outdoor main PCB)	• Power transistor error	Replacement of PCB	105
<b>E57</b>	Stays OFF	Keeps flashing	2-time flash		Operation status	• Shortage in refrigerant quantity	Repair	106
					Installation status	• Service valve closing operation	Service valve opening check	
		Stays OFF	Keeps flashing	3-time flash	• Overload operation • Overcharge • Compressor locking	• Current safe stop	Replacement	107
<b>E59</b>	Stays OFF	Keeps flashing	2-time flash		Compressor, outdoor main PCB	• Anomalous compressor startup	Replacement	108
			7-time flash			• Voltage drop		
<b>E60</b>	Stays OFF	Keeps flashing	6-time flash		Compressor	• Anomalous compressor rotor lock	Replacement	109
	_ WAIT _ or INSPECT I/U	Stays OFF	Keeps flashing	6-time flash	indoor-outdoor connection wire	• Poor connection, breakage of indoor-outdoor units connection wire	Repair	—

Note (1) \* mark in the description of trouble means that, in ordinary diagnosis, it cannot identify the cause definitely, and, if the trouble is repaired by replacing the part, it is judged consequently that the replaced part was defective.