

# Mitsubishi Heavy Industries Air Conditioning Error Codes – R410A Systems

Display of remote controller

CODE	Error details	Inspected unit
<b>F1</b>	Reverse phase detection	Outdoor
<b>F2</b>	L3 open phase detection	Outdoor
<b>F3</b>	63L connector open	Outdoor
<b>F4</b>	49C connector open	Outdoor
<b>F9</b>	Connector 2 or more open	Outdoor
<b>FA</b>	L2-phased open phase or 51CM connector open	Outdoor
<b>F7</b>	Reverse phase detector circuit (p.c.board) fault.	Outdoor
<b>F8</b>	Input circuit fault	Outdoor
<b>U2</b>	Abnormal high discharging temperature	Outdoor
<b>U2</b>	Inner thermostat (49C) operation	Outdoor
<b>U1</b>	Abnormal high pressure (High pressure switch 63H worked)	Outdoor
<b>U1</b>	Direct cut operation	Outdoor
<b>UE</b>	High pressure error (ball valve closed)	Outdoor
<b>UL</b>	Abnormal low pressure	Outdoor
<b>Ud</b>	Over heat protection	Outdoor
<b>U6</b>	Compressor over current (Overload) cut off	Outdoor
<b>UA</b>	Compressor over current (Terminal relay operation)	Outdoor
<b>UF</b>	Compressor over current (start-up locked) cut off	Outdoor
<b>UF</b>	Compressor over current (operating locked) cut off	Outdoor
<b>UH</b>	Current sensor error	Outdoor
<b>U3</b>	Discharge thermistor short/open	Outdoor
<b>U4</b>	Outdoor thermistor short/open	Outdoor

## Display of remote controller

LED	Diagnosis of malfunction	Inspected unit
E0	Transmitting/receiving signal error.	Indoor
P1	Intake air sensor abnormal	Indoor
P2	pipe sensor abnormal	Indoor
P4	Drain sensor abnormal	Indoor
P5	Malfunctioning of the drain overflow protecting mechanism.	Indoor
P6	Abnormality of the coil frost/overheating protection modes.	Indoor
P3	System error (Transmitting/receiving signal)	Indoor
P7	System error (Address)	Indoor
P8	Outdoor unit malfunction.	Outdoor

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>
E18	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 (BSH or BSH1) 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 condenser coil.</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) disconnect/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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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>	
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E63	Stays Off	Keeps Flashing	Flashes once	Keeps Flashing	<ul style="list-style-type: none"> <li>Emergency stop of indoor unit</li> </ul>	