Samsung RAC and FJM Fault Codes

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Operation =
Flashing Display Timer = Yes
Turbo =
LED Display = E1
Explanation and Checking points = Indoor unit room thermistor error - Open or Closed Circuit - Check and replace if required

Operation = Yes
Flashing Display Timer = Yes
Turbo =
LED Display = E2
Explanation and Checking points = Indoor unit pipe thermistor error - - Open or Closed Circuit - Check and replace if required

Operation =
Flashing Display Timer =
Turbo = Yes
LED Display = E3
Explanation and Checking points = Indoor unit fan motor malfunction - Check and replace if required

Operation =
Flashing Display Timer = Yes
Turbo = Yes
LED Display = E6
Explanation and Checking points = EPROM error - Check and replace PCB if required

Operation = Yes
Flashing Display Timer = Yes
Turbo = Yes
LED Display = Flashing
Explanation and Checking points = Option code error - Check and input new option code if required via wireless remote controller

Operation = Yes
Flashing Display Timer =
Turbo = Yes

LED Display =
Explanation and Checking points = Outdoor unit temperature sensor - Open or Closed Circuit - Check and replace if required

Outdoor Unit

Error Code = Er - E1
Explanation and Checking points = Indoor unit room temperature sensor error (open/short) - Check and replace if required

Error Code = Er - E5
Explanation and Checking points = Indoor unit heat exchanger out temperature sensor error (open/short) - Check and replace if required

Error Code = Er - 05
Explanation and Checking points = Indoor unit heat exchanger in temperature sensor error (open/short) - Check and replace if required

Error Code = Er - 06
Explanation and Checking points = EPROM error - Check and replace PCB if required

Error Code = Er - 09
Explanation and Checking points = Option code error - Check and input new option code if required via wireless remote controller

Error Code = E3 - 01
Explanation and Checking points = Indoor fan motor malfunction Fan and cable - Check and replace if required

Error Code = Er - 01
Explanation and Checking points = Communication error between the indoor unit and outdoor unit

Error Code = Er - 11
Explanation and Checking points = Abnormal increase of operation current

Error Code = Er - 12
Explanation and Checking points = Abnormal increase of OLP temperature

Error Code = Er - 13
Explanation and Checking points = Abnormal increase of discharge temperature

Error Code = Er - 14
Explanation and Checking points = Over current of IPM circuit Comp. Fan

Error Code = Er - 15

Explanation and Checking points = Abnormal increase of heat sink temperature Fan

Error Code = Er - 10
Explanation and Checking points = BLCD compressor starting error Comp. PCB, Comp wire

Error Code = Er - E6
Explanation and Checking points = deice temp-sensor - Check and replace if required

Error Code = Er - 31
Explanation and Checking points = outdoor temp-sensor - Check and replace if required

Error Code = Er - 32
Explanation and Checking points = discharge temp-sensor - Check and replace if required

Error Code = Er - 33
Explanation and Checking points = discharge temp-sensor - Check and replace if required

Error Code = Er - 17
Explanation and Checking points = Communication error between 2 micom on the outdoor PCB

Error Code = Er - 36
Explanation and Checking points = current sensor error PCB - Check and replace if required

Error Code = Er - 37
Explanation and Checking points = heatsink temp-sensor error PCB - Check and replace if required

Error Code = Er - 38
Explanation and Checking points = Voltage sensor error - Check and replace if required

Inverter Unit

Display = E1 01
Explanation and Checking points = Communication error (indoor unit unable to receive data) - Check cables

Display = E1 02
Explanation and Checking points = Communication error (outdoor unit unable to communicate) - Check addresses

Display = E1 21
Explanation and Checking points = Indoor unit room temperature sensor error (Open/Short) - Check and replace if required

Display = E1 22

Explanation and Checking points = Indoor unit sensor error - Evaporator pipe in sensor error (Open/Short) - Check and replace if required

Display = E1 23
Explanation and Checking points = Indoor unit sensor error - Evaporator pipe out sensor error (Open/Short) - Check and replace if required

Display = E1 28
Explanation and Checking points = Indoor unit sensor error - Evaporator pipe out sensor detached

Display = E1 30
Explanation and Checking points = Indoor unit heat exchanger in & out temperature sensor detached

Display = E1 54
Explanation and Checking points = Indoor unit fan malfunction

Display = E1 61
Explanation and Checking points = More than 2 indoor units cool and heat simultaneously

Display = E1 62
Explanation and Checking points = EPROM error

Display = E1 63
Explanation and Checking points = Option code setting error

Display = E1 85
Explanation and Checking points = Cable miss wiring

Display = E2 01
Explanation and Checking points = The number of indoor unit mismatched

Display = E2 02
Explanation and Checking points = Communication error (outdoor unable to receive data)

Display = E2 03
Explanation and Checking points = Communication error between two microcontroller on the outdoor PCB

Display = E2 21
Explanation and Checking points = Outdoor temperature sensor error (Short/Open) - Check and replace if required

Display = E2 37
Explanation and Checking points = Condenser temperature sensor error (Short/Open) - Check and replace if required

Display = E2 46
Explanation and Checking points = Condenser temperature sensor detached

Display = E2 51
Explanation and Checking points = Compressor discharge sensor error (Short/Open) - Check and replace if required

Display = E2 59
Explanation and Checking points = Outdoor unit error

Display = E2 60
Explanation and Checking points = Compressor discharge sensor error (Short/Open) - Check and replace if required

Display = E2 61
Explanation and Checking points = Compressor discharge sensor detached

Display = E3 20
Explanation and Checking points = Compressor OLP sensor error (Short/Open) - Check and replace if required

Display = E4 01
Explanation and Checking points = Indoor unit heat exchanger freezing and compressor stop (cooling mode)

Display = E4 04
Explanation and Checking points = Outdoor unit overload and compressor stop (protection control in heating mode)

Display = E4 16
Explanation and Checking points = Outdoor unit high discharge temperature and compressor stop (heating mode)

Display = E4 19
Explanation and Checking points = Outdoor unit EEV open error (self diagnosis) - Check and replace if required

Display = E4 22
Explanation and Checking points = Outdoor unit EEV close error (self diagnosis) - Check and replace if required

Display = E4 40
Explanation and Checking points = High temperature (over 30°C) of outdoor as heating mode

Display = E4 41
Explanation and Checking points = Low temperature (under -5°C) of indoor as cooling mode

Display = E4 60
Explanation and Checking points = Wrong connection between communication and power cable

Display = E4 61
Explanation and Checking points = Inverter compressor starting failure (5 times)

Display = E4 62
Explanation and Checking points = Compressor trip by input current limit control

Display = E4 63
Explanation and Checking points = Compressor trip by OLP temperature limit control

Display = E4 64
Explanation and Checking points = Compressor peak current protection

Display = E4 65
Explanation and Checking points = Compressor overload protection by current

Display = E4 66
Explanation and Checking points = DC-link voltage error (under 150V or over 410V)

Display = E4 67
Explanation and Checking points = Compressor rotation error

Display = E4 68
Explanation and Checking points = Current sensor error - Check and replace if required

Display = E4 69
Explanation and Checking points = DC-link voltage sensor error - Check and replace if required

Display = E4 70
Explanation and Checking points = Compressor overload protection - Check refrigerant charge and heat exchangers

Display = E4 71
Explanation and Checking points = EPROM error - Check and replace PCB if required

Display = E4 72
Explanation and Checking points = AC line zero-crossing detection circuit error - Check power supply

Display = E5 54
Explanation and Checking points = No refrigerant error (self diagnosis) - Check refrigerant charge