Bosch Climate 5000 Mini Split Error Codes

Error codes for Bosch Climate 5000 wall-mounted ductless systems (BMS500-AAU indoor and BMS500-AAS outdoor models listed in Bosch's indoor unit service manual): what each code means, what to check first, and where to find the part.

Parts listed for Bosch BMS500 models: hvacexpressparts.com/search?q=BMS500
Not sure which part? Match the number printed on your old part, or call (786) 223-7655, Mon–Fri 9 AM–5 PM ET.

CODE	WHAT IT MEANS	WHAT TO CHECK FIRST	PARTS
Indoor unit			
E0	Indoor unit EEPROM error.	Turn the unit off at the breaker for a few minutes and restart once. If the code returns, the indoor control board (the EEPROM chip is on the board).	control boards
E3	Indoor fan speed error.	With the power off: the filter is clean and the blower wheel turns freely and is clean. Then the fan motor plug and the motor, then the indoor control board.	fan motors, blower wheels & fan blades, control boards
E4	Indoor return air temperature sensor error.	The sensor (thermistor) and its plug on the indoor board, with the power off. If the sensor reads correctly on its resistance chart, the indoor control board.	control boards
E5	Indoor coil temperature sensor error.	The sensor (thermistor) and its plug on the indoor board, with the power off. If the sensor reads correctly on its resistance chart, the indoor control board.	control boards
F6	Indoor coil outlet temperature sensor error.	The coil outlet sensor (T2B) and its plug, with the power off; then the control board.	control boards
Communication			
E1	Communication error between the indoor and outdoor units.	Restart once at the breaker. If the code returns, a technician checks the communication wiring and terminals between the units (correct order, tight, dry), then the indoor or outdoor control board.	control boards
Outdoor unit			
F1	Outdoor ambient temperature sensor error.	The outdoor sensor (thermistor) and its plug, with the power off: compare its resistance with the temperature chart. If it reads correctly, the outdoor control board.	control boards
F2	Outdoor coil temperature sensor error.	The outdoor sensor (thermistor) and its plug, with the power off: compare its resistance with the temperature chart. If it reads correctly, the outdoor control board.	control boards

CODE	WHAT IT MEANS	WHAT TO CHECK FIRST	PARTS
F3	Compressor discharge temperature sensor error.	The discharge temperature sensor (TP) and its plug, with the power off; then the outdoor control board.	discharge temperature sensor, control boards
F4	Outdoor unit EEPROM error.	Turn the unit off at the breaker for a few minutes and restart once. If the code returns, the outdoor control board (the EEPROM chip is on the board).	control boards
F5	Outdoor fan speed error.	With the power off: the outdoor fan blade turns freely and nothing blocks it (ice, snow, debris). Then the motor plug and windings, then the fan drive on the outdoor control board.	fan motors, blower wheels & fan blades, control boards
Protection			
F0	Outdoor current overload sensed.	Airflow first: the filters and coils are clean and the outdoor fan runs. If the code returns, a technician checks the supply voltage and the compressor current, then the outdoor control board.	control boards
P0	Inverter module (IPM) error.	Outdoor airflow first: the coil is clean and nothing blocks the unit. If the code returns, a technician checks the supply voltage, then the inverter module / outdoor control board.	control boards
P1	High or low voltage protection.	The breaker and the outdoor disconnect first; restart once. If the code returns, a technician checks the supply voltage; if it is correct, the outdoor control board.	control boards
P3	Outdoor unit low-temperature lockout.	Usually the outdoor temperature is below the unit's heating range; it restarts when it warms up. If it is not that cold outside, a technician checks the outdoor ambient sensor (T4).	—
P4	Compressor drive error.	A technician checks the compressor wires (U-V-W) and terminals, then the inverter module / outdoor board, then the compressor windings. Rule out the wiring and the module before replacing the compressor.	control boards, compressors
Alarms and status			
EC	Low refrigerant.	Refrigerant charge and leaks: a licensed (EPA 608) technician. Not a parts swap.	—
P5	Mode conflict (multi-zone).	Multi-zone: indoor units are set to heating and cooling at the same time — set one mode. Not a part fault.	—
dF	Defrosting.	Normal in Heat mode, not an error code. The indoor fan can pause while the outdoor coil defrosts; check only that the outdoor unit is clear of ice and snow.	—
cF	Anti-cold-air warm-up in Heat mode.	Normal display, not an error code.	—
SC / FP	SC: self cleaning (single-zone only). FP: 46°F (8°C) heating feature on.	Normal display, not an error code.	—

Parts listed for Bosch Climate 5000 (BMS500) models

Each part page lists the unit models the part is matched to. Match the number printed on your old part before you order.

PART NUMBER	PART
12100105000084	Axial flow fan
17400516000851	Pressure switch
11002015A00096	Brushless DC motor
11002015000247	Outdoor brushless DC motor
12100105000022	Axial flow fan
11001010000063	Water pump
11002015009825	Outdoor brushless DC motor
11103020000719	DC inverter rotary compressor
11002015A01137	Brushless DC motor
11002015000150	Indoor brushless DC motor
11002015000051	Indoor brushless DC motor
11002015018558	Brushless DC motor
11103020000179	DC inverter rotary compressor
11103020A00176	DC inverter rotary compressor
11103020002859	DC inverter rotary compressor
11103020000029	DC inverter rotary compressor
11002015012128	Outdoor brushless DC motor
11103020A00576	DC inverter rotary compressor
11103020000559	DC inverter rotary compressor
11103020A00756	DC inverter rotary compressor
11002015A01177	Brushless DC motor
11002015008646	Indoor brushless DC motor
11002015A00817	Brushless DC motor
11002015008365	Outdoor brushless DC motor

Safety. Power checks and board work are for a qualified technician; refrigerant work requires EPA Section 608 certification.

Returns. Parts that were not installed, connected or used can be returned within 30 days: hvacexpressparts.com/refund-policy.

Source. Code meanings summarized in our own words from: Bosch Thermotechnology, Climate 5000 Series Ductless Air Conditioner / Heat Pump Indoor Units Service Manual (05.2025): §7.2 Display Function (Figure 17) and §8.1 Error Codes — Wall Mounted Indoor Unit (Table 14). The same code can mean something else on other models; confirm it in your unit's documentation.

Other brands and models. Our mini split error codes guide: hvacexpressparts.com/blog/mini-split-error-codes-guide.

HVAC Express Parts is an independent parts seller, not affiliated with Bosch. Brand and model names identify the equipment only.