

To check for error codes in the Climate Control System with the internal diagnostics via the 'Panel Codes'

1. Ignition off - hold down AUTO and RECIRCULATION buttons and switch on the ignition
2. press AUTO button - if ZERO shows, there's no stored error codes
3. press FACE button repeatedly to scroll through stored fault codes
4. press FACE and HEATED REAR WINDOW buttons together to clear a fault code.
5. repeat step 4 if there's more than one code
6. press FAN button to exit Interrogation Procedure

Control Panel Fault Code Listing

Reference fault code #23*: In ambient temperatures below 0°C, this code may be logged because the low ambient causes a temporary low gas pressure. Where the ambient temperature rises above 40°C, with the engine close to overheating, electrical feed to the compressor clutch may be cut and code #23 registered.

0 Normal operation no fault codes present None Wait 30 seconds for system self-check.

11 Motorized in-car aspirator malfunction Harness / connector fault Sensor open / short circuit Panel fault codes are not stored for motorized in-car aspirator motor failure.

12 Ambient temperature sensor malfunction Harness / connector fault Sensor open / short circuit After rectification, disconnect the vehicle battery for 10 seconds to reset the system.

13 Evaporator temperature sensor malfunction Harness / connector fault Sensor open / short circuit Refer to PDU

14 Water temperature input malfunction Instrument cluster output Refer to PDU

15 Heater matrix temperature sensor malfunction Harness / connector fault Sensor open / short circuit Refer to PDU

21 Solar sensor Sensor open /short circuit Refer to PDU

22 Compressor lock signal fault Low refrigerant charge, low compressor oil level, loose drive belt Harness / connector fault Adjust items as required

23 Refrigerant pressure switch malfunction Harness / connector fault Switch open / short circuit Refer to PDU 23 Refrigerant pressure low refrigerant charge *Leak from damaged pipe or joint Rectify as required and recharge system

24 Face vent demand potentiometer fault Potentiometer open / short circuit Harness / connector fault Refer to PDU

31 LH fresh / recirc. potentiometer fault Harness / connector fault In certain circumstances the servo motor may over-travel and cause further logged faults. This may be cured, following fault rectification, by cycling the ignition ON-OFF-ON 3 times Refer to PDU

32 RH fresh / recirc. potentiometer fault Harness / connector fault In certain circumstances the servo motor may over-travel and cause further logged faults. This may be cured, following fault rectification, by cycling the ignition ON-OFF-ON 3 times Refer to PDU

33 Cool air by-pass potentiometer fault Harness / connector fault In certain circumstances the servo motor may over-travel and cause further logged faults. This may be cured, following fault rectification, by cycling the ignition ON-OFF-ON 3 times Refer to PDU

34 Defrost vent potentiometer fault Harness / connector fault In certain circumstances the servo motor may over-travel and cause further logged faults. This may be cured, following fault rectification, by cycling the ignition ON-OFF-ON 3 times Refer to PDU

35 Centre vent potentiometer fault Harness / connector fault In certain circumstances the servo motor may over-travel and cause further logged faults. This may be cured, following fault rectification, by cycling the ignition ON-OFF-ON 3 times Refer to PDU

36 Foot vent potentiometer fault Harness / connector fault In certain circumstances the servo motor may over-travel and cause further logged faults. This may be cured, following fault rectification, by cycling the ignition ON-OFF-ON 3 times Refer to PDU

41 LH fresh / recirc. motor fault Harness / connector fault Servo motor seized or sticking Flap seized or sticking Refer to PDU

42 RH fresh / recirc. motor fault Harness / connector fault Servo motor seized or sticking Flap seized or sticking Refer to PDU

43 Cool air by-pass motor fault Harness / connector fault Servo motor seized or sticking Flap seized or sticking Refer to PDU

43 Cool Air by-pass motor fault Harness / connector fault Servo motor seized or sticking Flap seized or sticking Refer to PDU

44 Defrost vent motor fault Harness / connector fault Servo motor seized or sticking Flap seized or sticking Refer to PDU

45 Centre vent motor fault Harness / connector fault Servo motor seized or sticking Flap seized or sticking Refer to PDU

46 Foot vent motor fault Harness / connector fault Servo motor seized or sticking Flap seized or sticking Refer to PDU

PDU DTC codes: not generally accessible with a generic OBDII code reader but linked to the above may provide additional 'Possible Causes'

DTC	PANEL	CIRCUIT	FAULT DESCRIPTION	POSSIBLE CAUSES
P0335	—	Engine speed input	Vehicle speed input > 50 mph; engine speed = 0	Vehicle speed input circuit between ECM and A/CCM open circuit, short circuit or high resistance
B1250	11	In-car temperature sensor	In-car temperature sensing circuit fault	In-car temperature sensing circuit open circuit, high resistance or short circuit to B+ voltage
B1253	11	In-car temperature sensor	In-car temperature sensing circuit fault	In-car temperature sensing circuit short circuit to ground
B1254	12	Ambient temperature sensor	Ambient temperature sensing circuit fault	Ambient temperature sensing circuit open circuit, high resistance or short circuit to B+ voltage
B1257	12	Ambient temperature sensor	Ambient temperature sensing circuit fault	Ambient temperature sensing circuit short circuit to ground
B1258	21	Solar sensor	Solar sensing circuit fault	Solar sensing circuit open circuit, high resistance or short circuit to B+ voltage
B1260	21	Solar sensor	Solar sensing circuit fault	Solar sensing circuit short circuit to ground
B1262	44	Defrost servo	Defrost vent position not reached within 30 seconds	Defrost vent servo drive circuit open circuit, high resistance or short circuit Defrost vent servo failure
B1263	45	Center vent servo	Center vent position not reached within 30 seconds	Center vent servo drive circuit open circuit, high resistance or short circuit Center vent servo failure
B1264	46	Foot vent servo	Foot vent position not reached within 30 seconds	Foot vent servo drive circuit open circuit, high resistance or short circuit Foot vent servo failure
B1265	43	Cool air bypass servo	Cool air bypass position not reached within 30 seconds	Cool air bypass servo drive circuit open circuit, high resistance or short circuit Cool air bypass servo failure
B1266	41	Left fresh / recirc servo	Left fresh / recirc position not reached within 30 seconds	Left fresh / recirc servo drive circuit open circuit, high resistance or short circuit Left fresh / recirc servo failure

DTC	PANEL	CIRCUIT	FAULT DESCRIPTION	POSSIBLE CAUSES
B1267	42	Right fresh / recirc servo	Right fresh / recirc position not reached within 30 seconds	Right fresh / recirc servo drive circuit open circuit, high resistance or short circuit Right fresh / recirc servo failure
B1268	34	Defrost feedback potentiometer	Defrost feedback potentiometer sensing (wiper) circuit fault	Defrost feedback potentiometer sensing circuit open circuit, high resistance or short circuit to B+ voltage
B1271	34	Defrost feedback potentiometer	Defrost feedback potentiometer sensing (wiper) circuit fault	Defrost feedback potentiometer sensing circuit short circuit to ground
B1272	35	Center vent feedback potentiometer	Center vent potentiometer sensing (wiper) circuit fault	Center vent potentiometer sensing circuit open circuit, high resistance or short circuit to B+ voltage
B1275	35	Center vent feedback potentiometer	Center vent potentiometer sensing (wiper) circuit fault	Center vent feedback potentiometer sensing circuit short circuit to ground
B1276	36	Foot vent feedback potentiometer	Foot vent potentiometer sensing (wiper) circuit fault	Foot vent potentiometer sensing circuit open circuit, high resistance or short circuit to B+ voltage
B1279	36	Foot vent feedback potentiometer	Foot vent potentiometer sensing (wiper) circuit fault	Foot vent potentiometer sensing circuit short circuit to ground
B1280	33	Cool air bypass feedback potentiometer	Cool air bypass potentiometer sensing (wiper) circuit fault	Cool air bypass potentiometer sensing circuit open circuit, high resistance or short circuit to B+ voltage
B1283	33	Cool air bypass feedback potentiometer	Cool air bypass potentiometer sensing (wiper) circuit fault	Cool air bypass potentiometer sensing circuit short circuit to ground
B1284	31	Left fresh / recirc feedback potentiometer	Left fresh / recirc potentiometer sensing (wiper) circuit fault	Left fresh / recirc potentiometer sensing circuit open circuit, high resistance or short circuit to B+ voltage
B1287	31	Left fresh / recirc feedback potentiometer	Left fresh / recirc potentiometer sensing (wiper) circuit fault	Left fresh / recirc potentiometer sensing circuit short circuit to ground
B1288	32	Right fresh / recirc feedback potentiometer	Right fresh / recirc potentiometer sensing (wiper) circuit fault	Right fresh / recirc potentiometer sensing circuit open circuit, high resistance or short circuit to B+ voltage
B1291	32	Right fresh / recirc feedback potentiometer	Right fresh / recirc potentiometer sensing (wiper) circuit fault	Right fresh / recirc potentiometer sensing circuit short circuit to ground

DTC	PANEL	CIRCUIT	FAULT DESCRIPTION	POSSIBLE CAUSES
B1292	—	B+ power supply (via A/C Isolate relay)	B+ power supply circuit fault between A/C Isolate relay and A/CCM	B+ circuit between A/C Isolate relay and A/CCM open circuit or high resistance
B1294	—	B+ power supply (via A/C Isolate relay)	B+ power supply circuit fault between A/C Isolate relay and A/CCM	B+ circuit between A/C Isolate relay and A/CCM short circuit to ground
B1297	—	Sensor 5 volt reference voltage	Sensor 5 volt reference voltage circuit fault	Sensor 5 volt reference voltage circuit open circuit or short circuit to B+ voltage
B1298	—	Sensor 5 volt reference voltage	Sensor 5 volt reference voltage circuit fault	Sensor 5 volt reference voltage circuit short circuit to ground
B1299	—	Sensor 5 volt reference voltage	Sensor 5 volt reference voltage circuit fault	Sensor 5 volt reference voltage circuit high resistance
B1355	—	B+ power supply	B+ power supply circuit fault	B+ power supply circuit open circuit or short circuit to ground
B1849	24	Face vent differential temperature control	Face vent differential temperature control potentiometer circuit fault	Face vent differential temperature potentiometer circuit open circuit, high resistance or short circuit to B+ voltage
B1852	24	Face vent differential temperature control	Face vent differential temperature control potentiometer circuit fault	Face vent differential temperature potentiometer circuit short circuit to ground
B1853	—	Aspirator motor	Aspirator motor circuit fault	Aspirator motor circuit open circuit or high resistance Aspirator motor failure
B1856	—	Aspirator motor	Aspirator motor circuit fault	Aspirator motor circuit short circuit to ground
B1857	—	Ignition switched (Pos I, Aux) ground signal	Ignition switched ground signal circuit fault	Ignition switched ground signal circuit open circuit or high resistance
B1858	23	Refrigerant dual pressure switch	Refrigerant dual pressure switch circuit fault	Refrigerant charge low Refrigerant dual pressure switch circuit open circuit, high resistance or short circuit to B+ voltage High engine temperature in high ambient temperature
B1861	23	Refrigerant dual pressure switch	Refrigerant dual pressure switch circuit fault	Refrigerant dual pressure switch circuit short circuit to ground

DTC	PANEL	CIRCUIT	FAULT DESCRIPTION	POSSIBLE CAUSES
B1969	—	Compressor clutch feedback	Compressor clutch circuit fault	Compressor clutch feedback circuit open circuit or short circuit to ground Compressor clutch request circuit between A/CCM and ECM open circuit or short circuit to ground Compressor clutch relay drive circuit between ECM and relay open circuit or short circuit to ground Compressor clutch activate circuit between relay and clutch open circuit or short circuit to ground Compressor clutch relay failure Compressor clutch failure
U1263	—	Control panel serial communication	Control panel serial communication circuit fault	Control panel to A/CCM circuit (data input CC30-7, clock, start) open circuit or short circuit Control panel failure A/CCM failure
U1264	—	Control panel serial communication	Control panel serial communication circuit fault	Control panel to A/CCM circuit (data output CC30-3) open circuit or short circuit Control panel failure A/CCM failure