

DTC of AVAS

| DTC | DTC description | Possible causes | Recommended countermeasures |
|-------|--------------------------|--------------------------------|--|
| U3003 | Low voltage | Low battery voltage | Too low battery voltage, please check battery |
| U3003 | High voltage | High battery voltage | Too high battery voltage, please check battery |
| B2800 | Working current abnormal | Internal fault of control unit | Check the acoustic alerting control unit. |

DTC of battery cooling control unit

| Trouble code | DTC Description | Fault causes | Recommended countermeasures |
|--------------|---|---|---|
| U3003 | High power voltage | 1. Battery voltage abnormal 2. BCU collection abnormal | Check the wire harness or replace the BCU. |
| U3003 | Low power voltage | 1. Battery voltage abnormal 2. BCU collection abnormal | Check the wire harness or replace the BCU. |
| B2700 | High pressure sensor open | 1. Sensor open 2. Collection circuit abnormal | 1) Check the wire harness and the sensor; 2) Replace the BCU. |
| B2700 | High pressure sensor short | 1. Sensor open 2. Collection circuit abnormal | 1) Check the wire harness and the sensor; 2) Replace the BCU. |
| B2701 | Low pressure sensor open | 1. Sensor open 2. Collection circuit abnormal | 1) Check the wire harness and the sensor; 2) Replace the BCU. |
| B2701 | Low pressure sensor short | 1. Sensor open 2. Collection circuit abnormal | 1) Check the wire harness and the sensor; 2) Replace the BCU. |
| B2702 | Low pressure side temperature sensor open | 1. Sensor open 2. Collection circuit abnormal | 1) Check the wire harness and the sensor; 2) Replace the BCU. |
| B2702 | Low pressure side temperature sensor short | 1. Sensor open 2. Collection circuit abnormal | 1) Check the wire harness and the sensor; 2) Replace the BCU. |
| B2703 | PTC water outlet temperature sensor open | Sensor short or open | 1) Check the wire harness and the sensor; 2) Replace the BCU. |
| B2703 | PTC water outlet temperature sensor short | Sensor short or open | 1) Check the wire harness and the sensor; 2) Replace the BCU. |
| B2704 | Solenoid valve open | Sensor short or open | 1) Check the wire harness and the sensor; 2) Replace the BCU. |
| B2704 | Solenoid valve short | Sensor short or open | 1) Check the wire harness and the sensor; 2) Replace the BCU. |
| B2705 | Electromagnetic expansion valve (EXV) overpressure | 1. Battery voltage abnormal 2. BCU collection abnormal | Check the wire harness or the EXV. |
| B2705 | Electromagnetic expansion valve (EXV) underpressure | 1. Battery voltage abnormal 2. BCU collection abnormal | Check the wire harness or the EXV. |
| B2706 | Water pump failed | Internal fault of water pump | 1. Inspect the line. 2. Inspect the pipeline. 3. Inspect the water pump status. |
| B2707 | PTC failed | Internal fault of PTC | 1. Inspect the circuit to see if the PTC can heat normally; 2. Professional personnel carry out overhaul. |
| B2708 | Protection of high system pressure | High system pressure | 1. Test the circuit. 2. Verify the pressure. 3. Condenser has poor heat dissipation. 4. Professional personnel carry out service. |

Troubleshooting

| Trouble code | DTC Description | Fault causes | Recommended countermeasures |
|--------------|--------------------------------------|---|---|
| B2709 | EXV failed | EXV in failure status | 1. Test the circuit. 2. Ask the professional maintenance personnel for maintenance. |
| U0073 | Body Can involves BusOff | Body CAN network involves BusOff | 1. Test the circuit. 2. Ask the professional maintenance personnel for maintenance. |
| U0074 | LIN communication error | LIN network abnormal | 1. Test the circuit. 2. Ask the professional maintenance personnel for maintenance. |
| B270A | AC communication loss | EXV communication loss | 1. Test the circuit. 2. Ask the professional maintenance personnel for maintenance. |
| B270B | Tee water valve 1 failed | Tee water valve 1 failed | 1. Test the circuit. 2. Ask the professional maintenance personnel for maintenance. |
| B2713 | Tee water valve 2 failed | Tee water valve 2 failed | 1. Test the circuit. 2. Ask the professional maintenance personnel for maintenance. |
| B270C | Tee water valve 1 communication loss | Tee water valve communication loss | 1. Test the circuit. 2. Ask the professional maintenance personnel for maintenance. |
| B270D | Tee water valve 2 communication loss | Tee water valve communication loss | 1. Test the circuit. 2. Ask the professional maintenance personnel for maintenance. |
| B270E | Compressor abnormal | Compressor in failure status | 1. Test the circuit. 2. Ask the professional maintenance personnel for maintenance. |
| B270E | Compressor communication loss | Compressor communication loss | 1. Test the circuit. 2. Ask the professional maintenance personnel for maintenance. |
| B270E | Compressor communication failure | Compressor communication failure | 1. Test the circuit. 2. Ask the professional maintenance personnel for maintenance. |
| B270E | Compressor start-up failed | Poor release or missing phase of three-phase line | Replace the compressor (it is recommended to notify the supplier to check on site before replacing the compressor). |
| B270E | Compressor hardware protection | IGBT module is damaged. | Replace the compressor. |
| B270E | High compressor IPM temperature | 1. Poor heat dissipation; 2. Too little refrigerant; 3. Leakage inside the compressor. | 1. Inspection the suction pressure, exhaust pressure, and suction temperature; 2. Replace the compressor. |
| B270E | Internal stall of compressor | 1. Dirty system; 2. Internal damage of compressor; 3. Impurities. | Replace the A/C compressor. |
| B270F | High compressor bus current | 1. High pressure switch failure (component failure/slow); 2. Excessive refrigerant charging; 3. Condenser fan inoperation. | 1. Install the pressure sensor to the vehicle. If the pressure rises, check the A/C system. 2. High system pressure (above 25 bar), so it is recommended to add to the standard refrigerant volume (30 ml recommended to be added after refilling) ; 3. Check if the condenser fan is working properly. |
| B2710 | Low compressor voltage | Low traction battery voltage | Charge the vehicle. |
| B2711 | High compressor phase current | 1. Refrigerant slugging (high instantaneous phase current); 2. Refrigerant loop blocked; 3. Much refrigerant; 4. Condenser fan damaged. | 1. Re-vacuum and add refrigerant; 2. High system pressure (above 25 bar), so it is recommended to add to the standard refrigerant volume (30 ml recommended to be added after refilling) ; 3. Check if the condenser fan is working properly. |
| B2712 | High compressor voltage | Output voltage of the high voltage terminal exceeds the operating voltage range of the compressor. | Check if the high input voltage of the compressor is higher than 405 V. |

DTC of AC (anniversary version)

Use a special scan tool to perform troubleshooting. For details, see the diagnostic introductions given by the scan tool.

| Trouble code | Hexadecimal | DTC Description | Fault causes | Recommended countermeasures |
|--------------|-------------|---|--|--|
| B1614 | 15 | Ambient temperature sensor short to the power supply or open | 1. ECU circuit failed 2. Sensor not connected 3. Low sensor temperature | Inspect the circuit or replace the sensor. |
| B1614 | 11 | Ambient temperature sensor short to ground | ECU circuit failed | Check circuit or replace sensor |
| B1604 | 15 | Evaporator temperature sensor short to the power supply or open | 1. ECU circuit fault 2. Sensor not connected. 3. Low sensor temperature. | Check circuit or replace sensor |
| B1605 | 11 | Evaporator temperature sensor open | ECU circuit fault | Check circuit or replace sensor |
| U3003 | 17 | Power voltage above limit | 1. Incorrect ECU collection 2. Abnormal battery voltage | Check the circuit or replace the ECU. |
| U3003 | 16 | Power voltage below limit | 1. Incorrect ECU acquisition. 2. The supply voltage is abnormal. | Check circuit replace ECU |
| B1623 | 23 | Recirculation/fresh motor open | Circuit failed | Inspect the A/C circuit. |
| B1623 | 24 | Recirculation/fresh motor short | Line fault | Inspect A/C lines |

DTC of telematics unit (TU)

| Trouble code | Hexadecimal | DTC Description | Fault causes | Recommended countermeasures |
|--------------|-------------|--|--|---|
| B2300 | A300 | Built-in battery failed | Battery damaged or fall-off | Disassemble the motor and remove the battery. |
| B2301 | A301 | 4G network failure to be enabled | High temperature environment | — |
| B2300 | A300 | High built-in battery temperature alarm | High temperature environment | — |
| B2302 | A302 | WIFI failure to be initialized | High temperature environment | — |
| B2302 | A302 | WIFI connection failure | WIFI module damaged | Disassemble the telematics unit and replace the WIFI module. |
| B2303 | A303 | GPS failure to be initialized | High temperature environment | — |
| B2304 | A304 | Failure to enter Standby mode | High temperature environment | — |
| B2305 | A305 | Failure to get GPS data | GPS module failed | Replace the GPS module. |
| B2306 | A306 | Failure to read from SPI flash or write data | Flash chip failed | Replace the flash. |
| B2307 | A307 | SPI flash failure to be initialized | Line fault | Check if the MCU and FLASH circuits are normal. |
| U0073 | C073 | CAN bus off | Number of sent errors on CAN control unit is 255 or greater. | Check the wire harness and connector and other control units. |
| B2308 | A308 | CPU uart communication | Line fault | Check if the MCU and CPU uart are normally connected. |

DTC of VCU (independently-developed motor)

| Trouble code | DTC Description | Fault causes | Recommended countermeasures |
|--------------|--|--|--|
| B1500 | Ignition key position signal abnormal | Key switch sensor abnormal | Replace the key. |
| B1501 | High accelerator pedal angle signal voltage | High accelerator pedal angle signal voltage | Replace the accelerator pedal assembly. |
| B1502 | Low accelerator pedal angle signal voltage | Low accelerator pedal angle signal voltage | Accelerator pedal assembly |
| B1507 | Vehicle POST failure | Motor or battery failed | Inspect the power system. |
| P2304 | Vacuum sensor failure | Sensor short to ground; sensor short to the power supply; sensor open; sensor signal not in the effective range. | Replace the vacuum sensor. |
| P2310 | Vacuum pump failed or vacuum system leaking | Vacuum system leaking or vacuum pump working timeout | Voltage is within normal range or re-power on |
| P2318 | Master cylinder pressure sensor or circuit fault | Sensor or circuit failed | Replace the master cylinder pressure sensor and inspect the related wire harness. |
| P2319 | Master cylinder pressure sensor signal abnormal | Sensor failed | Replace the master cylinder pressure sensor. |
| P2320 | Brake lamp switch sensor or circuit failed | Sensor or circuit failed | Replace the brake lamp switch sensor and inspect the related wire harness. |
| P2322 | P gear control unit position sensor failed | P gear control unit reporting failure | Inspect if the P gear engagement/disengagement can be self-recovered, otherwise the P gear control unit assembly needs to be replaced. |
| P2323 | P gear control unit actuator motor failed | PCU reporting fault | Check if the p-gear engagement/disengagement can be recovered automatically; otherwise, replace the PCU assembly |
| P2324 | P gear control unit locking failure | PCU reporting fault | Check if the p-gear engagement/disengagement can be recovered automatically; otherwise, replace the PCU assembly |
| P2325 | P gear control unit unlocking failure | PCU reporting fault | Check if the p-gear engagement/disengagement can be recovered automatically; otherwise, replace the PCU assembly |
| P2326 | P gear control unit unknown status failure | PCU reporting fault | Check if the p-gear engagement/disengagement can be recovered automatically; otherwise, replace the PCU assembly |
| P0561 | Battery voltage abnormal | Battery failure or loss of electricity | Replace the battery. |
| U0294 | BMS communication loss | BMS failed or wire harness fault | Inspect the wire harness and the BMS. |
| U0292 | MCU communication loss | MCU failed or wire harness fault | Inspect the wire harness and the MCU. |
| U0155 | Instrument communication loss | Instrument failed or wire harness fault | Inspect the wire harness and the instrument. |
| U0116 | A/C communication loss | A/C control unit failed or wire harness fault | Inspect the wire harness and A/C control unit. |
| U0121 | ABS communication loss | ABS failed or wire harness fault | Inspect the wire harness and the ABS. |
| U0140 | BCM communication loss | BCM failed or wire harness fault | Inspect the wire harness and the BCM. |
| U0131 | EPS communication loss | EPS failed or wire harness fault | Inspect the wire harness and the EPS. |

DTC of ESC

| Trouble code | DTC Description | Fault causes | Recommended countermeasures |
|------------------|--|--|--|
| CAN control unit | CAN control unit failed | Internal damage of ESC | Replace the ESC. |
| C0051 | Switching valve S/M1 failed | Internal damage of ESC | Replace the ESC |
| C0052 | Switching valve S/M2 failed | Internal damage of ESC | Replace the ESC |
| C0053 | Normally open valve (FR) of ABS failed | Internal damage of ESC | Replace the ESC |
| C0054 | Normally closed valve (FR) of ABS failed | Internal damage of ESC | Replace the ESC |
| C0055 | Normally open valve (FL) of ABS failed | Internal damage of ESC | Replace the ESC |
| C0056 | Normally closed valve (FL) of ABS failed | Internal damage of ESC | Replace the ESC |
| C0057 | Normally open valve (RR) of ABS failed | Internal damage of ESC | Replace the ESC |
| C0058 | Normally closed valve (RR) of ABS failed | Internal damage of ESC | Replace the ESC |
| C0059 | Normally open valve (RL) of ABS failed | Internal damage of ESC | Replace the ESC |
| C005A | Normally closed valve (RL) of ABS failed | Internal damage of ESC | Replace the ESC |
| C005B | Valve bank relay failed | 1. External wiring/circuit abnormal 2. Internal damage of ESC | 1. Eliminate the external fault. 2. Replace the ESC. |
| C005C | Fuel pump motor failed | 1. External wiring/circuit abnormal 2. Internal damage of ESC | 1. Eliminate the external fault. 2. Replace the ESC. |
| C005D | STP-SW failed | 1. Poor wiring contact 2. STP-SW damaged 3. STP-SW malposition | 1. Re-wire 2. Replace the STP-SW. 3. Adjust the STP-SW position. |
| U3003 | Power voltage abnormal | 1. External wiring/circuit abnormal 2. Power internal damage | 1. Eliminate the external fault. 2. Replace the power supply. |
| U3003 | Motor power abnormal | 1. External wiring/circuit abnormal 2. Power internal damage | 1. Eliminate the external fault. 2. Replace the power supply. |
| C005E | Wheel speed sensor 1 (FR) failed | 1. External wiring/circuit abnormal 2. Sensor damaged | 1. Eliminate the external fault. 2. Replace the sensor. |
| C005F | Wheel speed sensor 1 (FL) failed | 1. External wiring/circuit abnormal 2. Sensor damaged | 1. Eliminate the external fault. 2. Replace the sensor. |
| C0060 | Wheel speed sensor 1 (RR) failed | 1. External wiring/circuit abnormal 2. Sensor damaged | 1. Eliminate the external fault. 2. Replace the sensor. |
| C0061 | Wheel speed sensor 1 (RL) failed | 1. External wiring/circuit abnormal 2. Sensor damaged | 1. Eliminate the external fault. 2. Replace the sensor. |
| C0062 | Wheel speed sensor 2 (FR) failed | 1. External wiring/circuit abnormal 2. Mounting position of sensor improper 3. sensor external connection abnormal 4. Sensing head damaged | 1. Verify the external wiring and circuit. 2. Adjust the mounting position of sensor. 3. Replace the sensor. 4. Replace the sensor. |
| C0063 | Wheel speed sensor 2 (FL) failed | 1. External wiring/circuit abnormal 2. Mounting position of sensor improper 3. External connection of sensor abnormal 4. Inductive head of sensor damaged | 1. Verify the external wiring and circuit 2. Adjust the mounting position of sensor 3. Replace the sensor. 4. Replace the sensor. |
| C0064 | Wheel speed sensor 2 (RR) failed | 1. External wiring/circuit abnormal 2. Mounting position of sensor improper 3. External connection of sensor abnormal 4. Inductive head of sensor damaged | 1. Verify the external wiring and circuit 2. Adjust the mounting position of sensor 3. Replace the sensor. 4. Replace the sensor. |

Troubleshooting

| Trouble code | DTC Description | Fault causes | Recommended countermeasures |
|--------------|--|--|--|
| C0065 | Wheel speed sensor 2 (RL) failed | <ol style="list-style-type: none"> 1. External wiring/circuit abnormal 2. Mounting position of sensor improper 3. External connection of sensor abnormal 4. Inductive head of sensor damaged | <ol style="list-style-type: none"> 1. Verify the external wiring and circuit 2. Adjust the mounting position of sensor 3. Replace the sensor. 4. Replace the sensor. |
| C0066 | Incorrect wheel gear number | <ol style="list-style-type: none"> 1. Wheel abnormal 2. Wheel speed sensor connection abnormal 3. Wheel speed sensor sensing head failed | <ol style="list-style-type: none"> 1. Verify the tire condition. 2. Verify the external connection of wheel speed sensor. 3. Replace the wheel speed sensor. |
| C0067 | Master cylinder pressure sensor failed | <ol style="list-style-type: none"> 1. External system or actuator failed 2. Sensor damaged 3. STP-SW abnormal 4. STP-SW malposition | <ol style="list-style-type: none"> 1. Eliminate the external fault. 2. Replace the ESC. 3. Replace the STP-SW. 4. Adjust the STP-SW position. |
| C0068 | G sensor failed | Internal damage of ESC | Replace the ESC. |
| C0069 | YrG sensor failed | Internal damage of ESC | Replace the ESC |
| C006A | Sensor not calibrated | Sensor not calibrated | Calibrate the sensor. |
| C006B | Steering angle sensor signal abnormal | <ol style="list-style-type: none"> 1. External wiring/circuit abnormal 2. Sensor damaged | <ol style="list-style-type: none"> 1. Eliminate the external fault. 2. Replace the sensor. |
| C006C | Steering angle sensor not calibrated | Sensor not calibrated | Calibrate the sensor. |
| U0293 | VCU signal abnormal | VCU failed | Check the VCU end operation. |
| U0103 | ESM signal | ESM failed | Check the ESM end operation. |
| U0073 | CAN communication | <ol style="list-style-type: none"> 1. VUC/ESM/SAS failed 2. CAN BUS abnormal | <ol style="list-style-type: none"> 1. Check the operation of VUC/ESM/SAS. 2. Check the external fault. |

DTC of tire pressure monitoring system (TPMS)

| Trouble code | DTC Description | Fault causes | Recommended countermeasures |
|--------------|---|--|--|
| U3003 | Low battery voltage | Low power of power system | Charge |
| | High battery voltage | High power supply voltage of power system | Reduce the power supply voltage. |
| B1700 | Effective sensor ID not detected | 1. ID not learned 2. Failure to read ID from EEPROM | 1. Re-learn the ID. 2. Replace the receiver module. |
| B1701 | Effective standard pressure not detected | 1. Standard pressure not set 2. Failure to read standard pressure from EEPROM | 1. Reset the standard pressure. 2. Replace the receiver module. |
| B1702 | Left front wheel failure to receive tire pressure data | 1. Sensor failed 2. Signal at the position that is blocked by the obstacle | 1. Replace the sensor. 2. Test if receiving can be recovered when the vehicle is running. |
| | Low battery power of left front wheel sensor | Sensor battery power lower than 2.1 V | Replace the sensor. |
| B1703 | Left rear wheel failure to receive tire pressure data | 1. Sensor failed 2. Signal at the position that is blocked by the obstacle | 1. Replace the sensor. 2. Test if receiving can be recovered when the vehicle is running. |
| | Low battery power of left rear wheel sensor | Sensor battery power lower than 2.1 V | Replace the sensor. |
| B1704 | Right front wheel failure to receive tire pressure data | 1. Sensor failed 2. Signal at the position that is blocked by the obstacle | 1. Replace the sensor. 2. Test if receiving can be recovered when the vehicle is running. |
| | Low battery power of right front wheel sensor | Sensor battery power lower than 2.1 V | Replace the sensor. |
| B1705 | Right rear wheel failure to receive tire pressure data | 1. Sensor failed 2. Signal at the position that is blocked by the obstacle | 1. Replace the sensor. 2. Test if receiving can be recovered when the vehicle is running. |
| | Low battery power of right rear wheel sensor | Sensor battery power lower than 2.1 V | Replace the sensor. |
| U0001 | CAN bus off | Node off because of trigger of error frames | Check communication circuit for abnormality, such as CANH and CANL short circuit, etc. |
| U0121 | Vehicle speed signal lost | ESC failed or disconnection, instrument failed or disconnection, or CAN wire harness fault | Check the CAN wire harness, instrument and ESC. |
| U0155 | Instrument communication loss | Instrument failed or disconnection, or CAN wire harness fault | Check the CAN wire harness and the instrument. |
| U0390 | Software check code fault | Software updated | Update the software. |