0540O–03

DIAGNOSTIC TROUBLE CODE CHART

If a malfunction code is displayed during the DTCs check (sensor check), check the circuit listed for the code in the table below (proceed to the page given for that circuit).

DTC No. (See Page)	Detection Item	Trouble Area	Memory*4
00	Normal	–	–
B1411/11*1 (05–1049)	Open or short in room temperature sensor circuit	• A/C room temperature sensor • Harness or connector between cooler A/C room temperature sensor and A/C amplifier • A/C amplifier	○ (8.5 min. or more)
B1412/12*2 (05–1054)	Open or short in ambient temperature sensor circuit	• A/C ambient temperature sensor • Harness or connector between A/C ambient temperature sensor and ECM • ECM • Multiplex communication circuit • A/C amplifier	○ (8.5 min. or more)
B1413/13 (05–1059)	Open or short in evaporator temperature sensor circuit.	• A/C evaporator temperature sensor (A/C thermistor) • Harness or connector between A/C evaporator temperature sensor and A/C amplifier • A/C amplifier	○ (8.5 min. or more)
B1421/21*3 (05–1064)	Open or short in solar sensor circuit. (If the check is performed in a dark place, DTC B1424/24 may be displayed.)	• A/C solar sensor • Harness or connector between A/C solar sensor and A/C amplifier or body ECU • A/C amplifier	○ (8.5 min. or more)
B1423/23 (05–1069)	• Open in pressure sensor circuit. • Abnormal refrigerant pressure. below 196 kPa (2.0 kgf/cm^2, 28 psi) over 3,140 kPa (32.0 kgf/cm^2, 455 psi)	• Pressure switch • Harness or connector between pressure switch and body ground • Multiplex communication circuit • Refrigerant pipe line • A/C amplifier	–
B1431/31 (05–1072)	Open or short in power source circuit in air mix damper position sensor circuit.	• Air mix control servomotor (air mix damper position sensor) • Harness or connector between Air mix control servomotor and A/C amplifier • A/C amplifier	○ (1 min. or more)
B1432/32 (05–1077)	Open or short in power source circuit in air inlet damper position sensor circuit.	• Air inlet control servomotor (air inlet damper position sensor) • Harness or connector between air inlet control servomotor and A/C amplifier • A/C amplifier	○ (1 min. or more)
B1433/33 (05–1082)	Open or short in power source circuit in air outlet damper position sensor circuit.	• Air outlet control servomotor (air outlet damper position sensor) • Harness or connector between air outlet control servomotor and A/C amplifier • A/C amplifier	○ (1 min. or more)
B1441/41 (05–1087)	Air mix damper position sensor value does not change even if air conditioner amplifier assy operates air mix servomotor.	• Air mix control servomotor • Harness or connector between air mix control servomotor and A/C amplifier • A/C amplifier	○ (15 sec.)
B1442/42 (05–1092)	Air inlet damper position sensor value does not change even if A/C control assembly operated air inlet damper control servo motor.	• Air inlet control servomotor • Harness or connector between air inlet control servomotor and A/C amplifier • A/C amplifier	○ (15 sec.)
B1443/43 (05–1097)	Air outlet damper position sensor valve does not change even if air conditioner amplifier operated air outlet damper control servo motor.	• Air outlet control servomotor • Harness or connector between air outlet control servomotor and A/C amplifier • A/C amplifier	○ (15 sec.)

B1462/62 (05–1102)	Open or short in room humidity sensor circuit	• A/C room humidity sensor (A/C room temperature sensor) • Harness or connector between A/C room humidity sensor (A/C room temperature sensor) and A/C amplifier • A/C amplifier	–
B1471/71 (05–1106)	Open or short in A/C inverter high voltage power resource system	• Hybrid control ECU • A/C inverter (w/converter inverter assy)	–
B1472/72 (05–1109)	Open or short in A/C inverter high voltage output system	• Hybrid control ECU • Electric inverter compressor (w/motor compressor assy) • A/C inverter (w/converter inverter assy)	–
B1473/73 (05–1112)	Open or short in A/C inverter start–up signal system	• Harness or connector between hybrid control ECU and A/C inverter (w/converter inverter assy) • A/C inverter (w/converter inverter assy) • Hybrid control ECU	–
B1474/74	A/C inverter (w/converter inverter assy) malfunction	• A/C inverter (w/converter inverter assy)	–
B1475/75 (05–1114)	Cooling water temperature in the inverter is outside the specified range (temperature is too high), or there is an open or short to ground in the temperature sensor circuit.	• A/C inverter (w/converter inverter assy)	–
B1476/76 (05–1115)	Motor's rotation load while the compressor is operating is too great or too small.	• Volume of refrigerant • Electric inverter compressor (w/motor compressor assy) • Cooling fan circuit	–
B1477/77 (05–1117)	An open or short to ground in the inverter's controlling power voltage circuit.	• A/C inverter (w/converter inverter assy)	–
B1498/98 (05–1118)	Communication line error or open between the hybrid control ECU and the A/C inverter (w/converter inverter assy)	• Harness or connector between hybrid control ECU and A/C inverter (w/converter inverter assy) • Hybrid control ECU • A/C inverter (w/converter inverter assy)	–
B1499/99 (05–2250)	Multiplex communication circuit	• Open in multiplex communication circuit	–
P3009–611 (05–1120)	High voltage system insulation malfunction.	• Electric inverter compressor (w/motor compressor assy) • A/C inverter (w/converter inverter assy) • Compressor oil	–

HINT:

- *1: If the room temperature is approx. –18.6°C (–3.7°F) or lower, DTC B1411/11 may be output even though the system is normal.
- *2: If the ambient temperature is approx. –52.9°C (–61.4°F) or lower, a malfunction code may be output even though the system is normal.
- *3: If the check is performed in a dark place, DTC B1421/21 or B1424/24 (solar sensor circuit abnormal) could be displayed.
- *4: The A/C amplifier memorizes the DTC of the respective malfunction that has occurred for a period of the time indicated in the brackets.