

## DIAGNOSTIC TROUBLE CODE CHART

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

DTC No. (See Page)	Detection Item	Trouble Area	Memory*6
B1400/00	Normal		
B1411/11*1 (DI-1775)	Room temperature sensor circuit	<ul style="list-style-type: none"> <li>Room temperature sensor</li> <li>Harness or connector between room temperature sensor and A/C ECU</li> <li>A/C ECU</li> </ul>	○ (8.5 min. or more)
B1412/12*2 (DI-1778)	Ambient temperature sensor circuit	<ul style="list-style-type: none"> <li>Ambient temperature sensor</li> <li>Harness or connector between ambient temperature sensor and engine and ECT ECU</li> <li>Engine and ECT ECU</li> </ul>	○ (8.5 min. or more)
B1413/13 (DI-1781)	Evaporator temperature sensor circuit	<ul style="list-style-type: none"> <li>Evaporator temperature sensor</li> <li>Harness or connector between evaporator temperature sensor and A/C ECU</li> <li>A/C ECU</li> </ul>	○ (8.5 min. or more)
B1415/15 (DI-1784)	Duct sensor circuit (Driver side)	<ul style="list-style-type: none"> <li>Duct sensor (Driver side)</li> <li>Harness or connector between duct sensor and A/C ECU</li> <li>A/C ECU</li> </ul>	○ (8.5 min. or more)
B1416/16 (DI-1787)	Duct sensor circuit (Passenger side)	<ul style="list-style-type: none"> <li>Duct sensor (Passenger side)</li> <li>Harness or connector between duct sensor and A/C ECU</li> <li>A/C ECU</li> </ul>	○ (8.5 min. or more)
B1418/18 (DI-1790)	Exhaust gas sensor circuit (HC, CO)	<ul style="list-style-type: none"> <li>Exhaust gas sensor</li> <li>Harness or connector between exhaust gas sensor and A/C ECU</li> <li>A/C ECU</li> </ul>	-
B1421/21*3 (DI-1793)	Solar sensor circuit (Passenger side)	<ul style="list-style-type: none"> <li>Solar sensor (Front side)</li> <li>Harness or connector between solar sensor and A/C ECU</li> <li>A/C ECU</li> </ul>	- ○ (8.5 min. or more)
B1422/22*5 (DI-1796)	All conditions below are detected for 3 secs. or more. (a) Engine speed : 450 rpm or more (b) Ratio between engine and compressor rpm deviates 20% or more in comparison to normal operation	<ul style="list-style-type: none"> <li>Compressor drive belt</li> <li>Compressor lock sensor</li> <li>Compressor</li> <li>Harness and connector between engine and ECT ECU and compressor, compressor lock sensor</li> <li>Engine and ECT ECU</li> </ul>	-
B1423/23 (DI-1799)	Open in pressure sensor circuit Abnormal refrigerant pressure [below 181 kPa (1.8 kgf/cm <sup>2</sup> , 26 psi) over 3,110 kPa (31.1 kgf/cm <sup>2</sup> , 451 psi)]	<ul style="list-style-type: none"> <li>Pressure sensor</li> <li>Harness or connector between pressure switch and A/C amplifier</li> <li>Refrigerant pipe line</li> <li>A/C ECU</li> </ul>	-
B1424/24*4 (DI-1802)	Solar sensor circuit (Driver side)	<ul style="list-style-type: none"> <li>Solar sensor (Front side)</li> <li>Harness or connector between solar sensor and A/C ECU</li> <li>A/C ECU</li> </ul>	- ○ (8.5 min. or more)
B1428/28*7 (DI-1805)	Solar sensor circuit (Rear side)	<ul style="list-style-type: none"> <li>Solar sensor (Rear side)</li> <li>Harness or connector between solar sensor and A/C ECU</li> <li>A/C ECU</li> </ul>	- ○ (8.5 min. or more)

DTC No. (See Page)	Detection Item	Trouble Area	Memory
B1432/32 (DI-1808)	Air Inlet Damper Position Sensor Circuit	<ul style="list-style-type: none"> <li>Air Inlet Damper Position Sensor</li> <li>A/C ECU</li> <li>Harness or Connector between Air Inlet Damper Position Sensor and A/C ECU</li> </ul>	○ (1 min. or more)
B1434/34 (DI-1813)	Cool Air Bypass Damper Position Sensor Circuit (Driver Side)	<ul style="list-style-type: none"> <li>Cool Air Bypass Damper Position Sensor (Driver Side)</li> <li>A/C ECU</li> <li>Harness or Connector between Cool Air Bypass Damper Position Sensor and A/C ECU</li> </ul>	○ (1 min. or more)
B1435/35 (DI-1817)	Cool Air Bypass Damper Position Sensor Circuit (Passenger Side)	<ul style="list-style-type: none"> <li>Cool Air Bypass Damper Position Sensor (Passenger Side)</li> <li>A/C ECU</li> <li>Harness or Connector between Cool Air Bypass Damper Position Sensor and A/C ECU</li> </ul>	○ (1 min. or more)
B1442/42 (DI-1821)	Air Inlet Damper Control Servomotor	<ul style="list-style-type: none"> <li>Air Inlet Damper Control Servomotor</li> <li>Air Inlet Damper Position Sensor</li> <li>Harness and Connector between A/C ECU and Air Inlet Position Sensor</li> <li>Harness and Connector between A/C ECU and Air Inlet Damper Control Servomotor</li> <li>A/C ECU</li> </ul>	○ (15 secs. or more)
B1451/51*8 (DI-1824)	Solenoid of the Externally Changeable Compressor Circuit	<ul style="list-style-type: none"> <li>Compressor</li> <li>Harness and Connector between A/C ECU and Solenoid of the Externally Changeable Compressor</li> <li>A/C ECU</li> </ul>	○ (1 min. or more)
B1461/61 (DI-1827)	Exhaust Gas Sensor Circuit (NOx)	<ul style="list-style-type: none"> <li>Exhaust Gas Sensor</li> <li>Harness or Connector between Exhaust Gas Sensor and A/C ECU</li> <li>A/C ECU</li> </ul>	-

## HINT:

- \*1 If the room temp. is approx.  $-20^{\circ}\text{C}$  ( $-4^{\circ}\text{F}$ ) or lower, DTC B1411/11 may be output even though the system is normal.
- \*2 If the ambient temperature is approx.  $-50^{\circ}\text{C}$  ( $-58^{\circ}\text{F}$ ) or lower, a DTC may be output even though the system is normal.
- \*3 If the check is being performed in a dark place, DTC B1421/21 (solar sensor circuit abnormal) could be displayed. In this case, perform DTC check again while shining a light, such as inspection light, on the solar sensor. If DTC B1421/21 is still displayed, there could be trouble in the solar sensor circuit.
- \*4 If the check is being performed in a dark place, DTC B1424/24 (solar sensor circuit abnormal) could be displayed. In this case, perform DTC check again while shining a light, such as inspection light, on the solar sensor. If DTC B1424/24 is still displayed, there could be trouble in the solar sensor circuit.
- \*5 Compressor Lock (DTC B1422/22) is indicated only for a current malfunction (See page DI-1796). To confirm DTC B1422/22, perform the following steps.
  - (1) With the engine ON, enter the DTC check mode.
  - (2) Press the R/F switch to enter actuator check mode, and set the operation to Step No. 3.
  - (3) Press the AUTO switch to return to DTC check mode.
  - (4) The DTC is displayed after approx. 3 secs.
- \*6 The A/C control assembly memorizes the DTC of the respective malfunction when it occurs for period of time indicated in the brackets.
- \*7 If the check is being performed in a dark place, DTC B1421/21 (solar sensor circuit abnormal) could be displayed. In this case, perform DTC check again while shining a light, such as inspection light, on the solar sensor. If DTC B1421/21 is still displayed, there could be trouble in the solar sensor circuit.
- \*8 Except G.C.C. Countries models