

DIAGNOSTIC TROUBLE CODE CHART

HINT:

When the air conditioning system function properly, DTC B1400/00 is output.

Air conditioning system

DTC No.	Detection Item	Trouble Area	Memory*4	See page
B1411*1	Room Temperature Sensor Circuit	<ul style="list-style-type: none"> - Room temperature sensor - Wire harness between cooler room temperature sensor and air conditioning amplifier - Air conditioning amplifier 	(8.5 min. or more)	AC-42
B1412*2	Ambient Temperature Sensor Circuit	<ul style="list-style-type: none"> - Room temperature sensor - Wire harness between ambient temperature sensor and ECM - ECM - Multiplex communication circuit - Air conditioning amplifier 	(8.5 min. or more)	AC-46
B1413	Evaporator Temperature Sensor Circuit	<ul style="list-style-type: none"> - Evaporator temperature sensor - Wire harness between evaporator temperature sensor and air conditioning amplifier - Air conditioning amplifier 	(8.5 min. or more)	AC-51
B1421*3	Solar Sensor Circuit (Passenger Side)	<ul style="list-style-type: none"> - Solar sensor - Wire harness between solar sensor and air conditioning amplifier or body ECU - Air conditioning amplifier 	(8.5 min. or more)	AC-55
B1423	Pressure Switch Circuit	<ul style="list-style-type: none"> - Pressure switch - Wire harness between pressure switch and body ground - Multiplex communication circuit - Refrigerant pipe line - Air conditioning amplifier 	-	AC-59
B1431	Air Mix Damper Position Sensor Circuit (Passenger Side)	<ul style="list-style-type: none"> - Air mix control servo motor (air mix damper position sensor) - Wire harness between air mix control servo motor and air conditioning amplifier - Air conditioning amplifier 	(1 min. or more)	AC-63
B1432	Air Inlet Damper Position Sensor Circuit	<ul style="list-style-type: none"> - Air inlet control servo motor (air inlet damper position sensor) - Wire harness between air inlet control servo motor and air conditioning amplifier - Air conditioning amplifier 	(1 min. or more)	AC-67

DTC No.	Detection Item	Trouble Area	Memory*4	See page
B1433	Air Outlet Damper Position Sensor Circuit	<ul style="list-style-type: none"> - Air outlet control servo motor (air outlet damper position sensor) - Wire harness between air outlet control servo motor and air conditioning amplifier - Air conditioning amplifier 	(1 min. or more)	AC-72
B1441	Air Mix Damper Control Servo Motor Circuit (Passenger Side)	<ul style="list-style-type: none"> - Air mix control servo motor - Wire harness between air mix control servo motor and air conditioning amplifier - Air conditioning amplifier 	(15 sec.)	AC-77
B1442	Air Inlet Damper Control Servo Motor Circuit	<ul style="list-style-type: none"> - Air inlet control servo motor - Wire harness between air inlet control servo motor and air conditioning amplifier - Air conditioning amplifier 	(15 sec.)	AC-81
B1443	Air Outlet Damper Control Servo Motor Circuit	<ul style="list-style-type: none"> - Air outlet control servo motor - Wire harness between air outlet control servo motor and air conditioning amplifier - Air conditioning amplifier 	(15 sec.)	AC-85
B1462	Room Humidity Sensor Circuit	<ul style="list-style-type: none"> - Room humidity sensor (room temperature sensor) - Wire harness between room humidity sensor (room temperature sensor) and air conditioning amplifier - Air conditioning amplifier 	-	AC-89
B1471	A/C Inverter High Voltage Power Resource System Malfunction	<ul style="list-style-type: none"> - Hybrid control ECU - A/C inverter (inverter with converter) 	-	AC-93
B1472	A/C Inverter High Voltage Output System Malfunction	<ul style="list-style-type: none"> - Hybrid control ECU - Electric inverter compressor (w/ motor compressor) - A/C inverter (inverter with converter) 	-	AC-96
B1473	A/C Inverter Start-up Signal System Malfunction	<ul style="list-style-type: none"> - Wire harness between hybrid control ECU and A/C inverter (inverter with converter) - A/C inverter (inverter with converter) - Hybrid control ECU 	-	AC-99
B1475	A/C Inverter Cooling / Heating System Malfunction	<ul style="list-style-type: none"> - A/C inverter (inverter with converter) 	-	AC-101
B1476	A/C Inverter Load System Malfunction	<ul style="list-style-type: none"> - Volume of refrigerant - Electric inverter compressor (w/ motor compressor) - Cooling fan circuit 	-	AC-102
B1477	A/C Inverter Low Voltage Power Resource System Malfunction	<ul style="list-style-type: none"> - A/C inverter (inverter with converter) 	-	AC-104

DTC No.	Detection Item	Trouble Area	Memory*4	See page
B1498	Communication Malfunction (A/C Inverter Local)	- Wire harness between hybrid control ECU and A/C inverter (inverter with converter) - Hybrid control ECU - A/C inverter (inverter with converter)	-	AC-105
P0AA6-611	Hybrid Battery Voltage System Isolation Fault	- Electric inverter compressor (w/ motor compressor) - A/C inverter (inverter with converter) - Compressor oil	-	AC-107

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 air conditioning amplifier memorizes the DTC of the respective malfunction that has occurred for a period of the time indicated in the brackets.

ACTUATOR CHECK**1. ACTUATOR CHECK**

- Start the engine to warm it up.
- Perform the indicator check.
- Push the R/F (Recirculation/Fresh) switch to perform the actuator check when the sensor check is started after the indicator check.

HINT:

Be sure to perform the actuator check with the power switch ON (READY).

- As the actuator check (continuous) is repeated from steps 0 to 9 at 1 second intervals, check the temperature and airflow visually and by hand.
- If the steps are difficult to read because they change automatically, push the "Fr. DEF" switch to display the steps step by step so that they can be read easily. The items are displayed step by step each time the "Fr. DEF" switch is pushed.

HINT:

- The display blinks at 1 second intervals in the step operation.
- The illustration indicates that code 4 is output. Push the "TEMP-" switch to finish panel diagnosis.
- Push the "AUTO" switch to enter the sensor check mode.

