DIAGNOSTIC TROUBLE CODE CHART

If a trouble 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).

AIR CONDITIONING SYSTEM

DTC Code	Detection Item	Trouble Area	Memory	See page
B1411/11*1	Room Temperature Sensor Circuit	1. A/C Room temperature sensor 2. A/C amplifier (A/C control assembly) 3. Harness or connector between A/C room temperature sensor and A/C amplifier (A/C control assembly)	Memorized (8.5 min. or more)	AC-25
B1412/12	Ambient Temperature Sensor Circuit	1. Ambient temperature sensor 2. Harness or connector between ambient temperature sensor and A/C amplifier (A/C control assembly) 3. A/C amplifier (A/C control assembly)	Memorized (8.5 min. or more)	AC-28
B1413/13	Evaporator Temperature Sensor Circuit	1. Evaporator temperature sensor 2. Harness or connector between evaporator temperature sensor and A/C amplifier (A/C control assembly) 3. A/C amplifier (A/C control assembly)	Memorized (8.5 min. or more)	AC-32
B1417/17	Rear Evaporator Temperature Sensor Circuit	1. Rear evaporator temperature sensor 2. Harness or connector between rear evaporator temperature sensor and A/C amplifier (A/C control assembly) 3. A/C amplifier (A/C control assembly)	Memorized (8.5 min. or more)	AC-35
B1419/19*1	Rear Room Temperature Sensor Circuit	1. Rear A/C room temperature sensor 2. Harness or connector between rear A/C room temperature sensor and A/C amplifier (A/C control assembly) 3. A/C amplifier (A/C control assembly)	Memorized (8.5 min. or more)	AC-39
B1421/21*2	Solar Sensor Circuit (Passenger Side)	1. Solar sensor 2. Harness or connector between solar sensor and A/C amplifier (A/C control assembly) 3. Harness or connector between solar sensor and body ECU 4. A/C amplifier (A/C control assembly) 5. Body ECU	Memorized*3 (8.5 min. or more) -*4	AC-42

AC

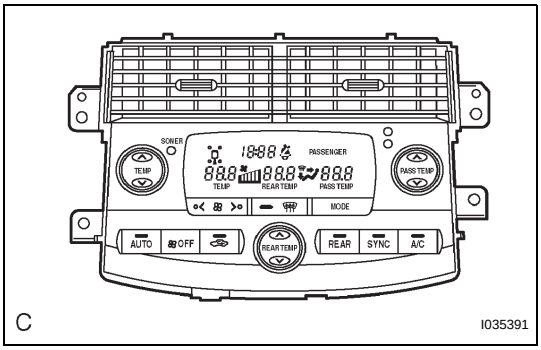
DTC Code	Detection Item	Trouble Area	Memory	See page
B1422/22	Compressor Lock Sensor Circuit	1. A/C compressor (A/C lock sensor) 2. Compressor drive belt 3. Harness or connector between compressor and magnetic clutch (A/C lock sensor) 4. A/C amplifier 5. CAN communication system 6. Multiplex communication system (BEAN)	-	AC-47
B1423/23	Pressure Sensor Circuit	1. Pressure sensor 2. Harness or connector between pressure sensor and A/C amplifier 3. A/C amplifier 4. Expansion valve (blocked, stuck) 5. Condenser (blocked, deterioration of cooling capacity due to dirt) 6. Cooler dryer (moisture in the refrigerant cycle cannot be absorbed) 7. Cooling fan system (condenser cannot be cooled down) 8. A/C system (leaks, blocked)	-	AC-51
B1424/24*2	Solar Sensor Circuit (Driver Side)	1. Solar sensor 2. Harness or connector between solar sensor and A/C amplifier (A/C control assembly) 3. Harness or connector between solar sensor and body ECU 4. A/C amplifier (A/C control assembly) 5. Body ECU	Memorized*3 (8.5 min. or more) -	AC-64
B1431/31	Air Mix Damper Position Sensor Circuit (Passenger Side)	1. Air mix damper position sensor 2. A/C amplifier (A/C control assembly) 3. Harness or connector between air mix damper position sensor and A/C amplifier (A/C control assembly)	Memorized (1 min. or more)	AC-69
B1432/32	Air Inlet Damper Position Sensor Circuit	1. Air inlet damper position sensor (Air inlet control servo motor) 2. A/C amplifier (A/C control assembly) 3. Harness or connector between air inlet damper position sensor and A/C amplifier (A/C control assembly)	Memorized (1 min. or more)	AC-73

DTC Code	Detection Item	Trouble Area	Memory	See page
B1433/33	Air Outlet Damper Position Sensor Circuit	1. Air outlet damper position sensor (Air outlet control servo motor) 2. A/C amplifier (A/C control assembly) 3. Harness or connector between air outlet damper position sensor and A/C amplifier (A/C control assembly)	Memorized (1 min. or more)	AC-77
B1436/36	Air Mix Damper Position Sensor Circuit (Driver Side)	1. Air mix damper position sensor (Air mix control servo motor) 2. Harness or connector between air mix damper position sensor and A/C amplifier (A/C control assembly) 3. A/C amplifier (A/C control assembly)	Memorized (1 min. or more)	AC-81
B1437/37	Rear Air Mix Damper Position Sensor Circuit	1. Rear air mix damper position sensor (Rear air mix control servo motor) 2. A/C amplifier (A/C control assembly) 3. Harness or connector between rear air mix damper position sensor and A/C amplifier (A/C control assembly)		AC-85
B1439/39	Rear Air Outlet Damper Position Sensor Circuit	1. Rear air outlet damper position sensor (Rear air outlet control servo motor) 2. Harness or connector between rear air outlet damper position sensor and A/C amplifier (A/C control assembly) 3. A/C amplifier (A/C control assembly)		AC-89
B1441/41	Air Mix Damper Control Servo Motor Circuit (Passenger Side)	1. Air mix control servo motor 2. Harness or connector between air mix control servo motor and A/C amplifier (A/C control assembly) 3. A/C amplifier (A/C control assembly)	Memorized (15 sec.)	AC-93
B1442/42	Air Inlet Damper Control Servo Motor Circuit	1. Air inlet control servo motor 2. Harness or connector between air inlet control servo motor and A/C amplifier (A/C control assembly) 3. A/C amplifier (A/C control assembly)	Memorized (15 sec.)	AC-98
B1443/43	Air Outlet Damper Control Servo Motor Circuit	1. Air outlet control servo motor 2. Harness or connector between air outlet control servo motor and A/C amplifier (A/C control assembly) 3. A/C amplifier (A/C control assembly)	Memorized (15 sec.)	AC-103

DTC Code	Detection Item	Trouble Area	Memory	See page
B1446/46	Air Mix Damper Control Servo Motor Circuit (Driver Side)	1. Air mix control servo motor 2. Harness or connector between air mix control servo motor and A/C amplifier (A/C control assembly) 3. A/C amplifier (A/C control assembly)	Memorized (15 sec.)	AC-108
B1447/47	Rear Air Mix Damper Control Servo Motor Circuit	1. Rear air mix control servo motor (Water valve servo motor) 2. Harness or connector between A/C amplifier (A/C control assembly) and rear air mix control servo motor 3. A/C amplifier (A/C control assembly)	Memorized (15 sec.)	AC-113
B1449/49	Rear Air Outlet Damper Control Servo Motor Circuit	1. Rear air outlet control servo motor 2. Harness or connector between rear air outlet control servo motor and A/C amplifier (A/C control assembly) 3. A/C amplifier (A/C control assembly)	Memorized (15 sec.)	AC-118
B1451/51	Compressor Solenoid Circuit	1. A/C compressor 2. Harness or connector between A/C amplifier (A/C control assembly) and solenoid of externally changeable compressor 3. A/C amplifier	-	AC-123
B1499/99	Multiplex Communication Circuit	1. Multiplex communication system (BEAN) 2. CAN communication system	Memorized	AC-126

HINT:

- *1: If the cabin temperature is approximately -18.6°C (-3.7°F) or lower, DTC B1411/11 may be output even though the system is normal.
- *2: If the check is being performed in a dark place, DTC B1421/21 or B1424/24 (solar sensor circuit abnormal) could be displayed.
- *3: Short in the circuit.
- *4: Open in the circuit.



ACTUATOR CHECK

1. ACTUATOR CHECK

(a) After entering the DTC check mode (Sensor Check Mode), press the R/F switch.

(b) As each damper, motor and relay automatically operate actuator check at 1-second intervals from step No. 1 to No. 10 continuously, check the temperature and air flow visually and by hand.
If the slower display is desired, press the DEF switch and change it to step operation. Each time the DEF switch is pressed, the display changes by 1 step.
HINT:
- Codes are displayed from smaller to larger numbers in order.
- To cancel the check mode, press the OFF switch.

Step No.	Display code	Conditions							
		Fr. Blower level	Fr. Air flow vent	Air inlet damper	Magnetic clutch	Fr. Driver, passenger side air mix damper	Rr. Blower level	Rr. Air flow vent	Rr. Air mix damper
1	0	0	FACE	FRESH	OFF	"COOL" side (Full closed)	0	FACE1	"COOL" side (Full closed)
2	1	1	FACE	FRESH	OFF	"COOL" side (Full closed)	1	FACE1	"COOL" side (Full closed)
3	2	16	FACE	FRESH	ON	"COOL" side (Full closed)	10	FACE1	"COOL" / "HOT" (40% open)
4	3	16	FACE	FRESH / RECIRCULATION	ON	"COOL" side (Full closed)	10	FACE2	"COOL" / "HOT" (40% open)
5	4	16	FACE	RECIRCULATION	ON	"COOL" / "HOT" (50% open)	10	B/L	"COOL" / "HOT" (40% open)
6	5	16	B/L	RECIRCULATION	ON	"COOL" / "HOT" (50% open)	10	B/L	"COOL" / "HOT" (60% open)
7	6	16	FOOT	RECIRCULATION	ON	"HOT" side (Full open)	10	B/L	"COOL" / "HOT" (60% open)
8	7	16	FOOT	RECIRCULATION	ON	"HOT" side (Full open)	10	FOOT	"COOL" / "HOT" (60% open)
9	8	16	FOOT / DEF.	RECIRCULATION	ON	"HOT" side (Full open)	10	FOOT	"COOL" / "HOT" (86.5% open)
10	9	31	DEF.	RECIRCULATION	ON	"HOT" side (Full open)	31	FOOT	"COOL" / "HOT" (86.5% open)