

DIAGNOSTIC TROUBLE CODE CHART

NOTICE:

When removing any parts, turn the ignition switch off.

HINT:

- If no abnormality is found when inspecting parts, check the skid control ECU and check for poor contact at ground points.
- If a DTC is displayed during the DTC check, check the circuit for the DTC listed in the table below. For details of each DTC, refer to the page indicated.
- When 2 or more DTCs are detected, perform circuit inspections one by one until the problem is identified.
- All DTCs in the table below are detected in accordance with 1 trip detection logic.

DTC chart of ABS

DTC No.	Detection Item	Trouble Areas	See page
C0200/31 (*1)	Front Speed Sensor RH Circuit	1. Front speed sensor RH 2. Front speed sensor RH circuit 3. Sensor installation 4. Skid control sensor wire 5. Master cylinder solenoid (skid control ECU)	BC-59
C0205/32 (*1)	Front Speed Sensor LH Circuit	1. Front speed sensor LH 2. Front speed sensor LH circuit 3. Sensor installation 4. Skid control sensor wire 5. Master cylinder solenoid (skid control ECU)	BC-59
C0210/33 (*1)	Rear Speed Sensor RH Circuit	1. Rear speed sensor RH 2. Rear speed sensor RH circuit 3. Sensor installation 4. Skid control sensor wire 5. Master cylinder solenoid (skid control ECU)	BC-67
C0215/34 (*1)	Rear Speed Sensor LH Circuit	1. Rear speed sensor LH 2. Rear speed sensor LH circuit 3. Sensor installation 4. Skid control sensor wire 5. Master cylinder solenoid (skid control ECU)	BC-67
C0226/21	SFR Solenoid Circuit	Master cylinder solenoid	BC-74
C0236/22	SFL Solenoid Circuit	Master cylinder solenoid	BC-74
C0246/23	SRR Solenoid Circuit	Master cylinder solenoid	BC-74
C0256/24	SRL Solenoid Circuit	Master cylinder solenoid	BC-74
C0278/11	Open in ABS Solenoid Relay Circuit	1. ABS SOL fuse 2. +BS terminal circuit 3. Master cylinder solenoid (skid control ECU)	BC-76
C0279/12	Short to B+ in ABS Solenoid Relay Circuit	1. ABS SOL fuse 2. +BS terminal circuit 3. Master cylinder solenoid (skid control ECU)	BC-76
C1202/58	Brake Fluid Level Low / Open Circuit in Brake Fluid Level Warning Switch Circuit	1. Brake fluid level 2. Brake master cylinder reservoir sub-assembly (brake fluid level warning switch) 3. Brake fluid level warning switch circuit 4. Master cylinder solenoid (skid control ECU)	BC-83

DTC No.	Detection Item	Trouble Areas	See page
C1225/25	SMC Solenoid Circuit	Master cylinder solenoid	BC-74
C1226/26	SPC Solenoid Circuit	Master cylinder solenoid	BC-74
C1227/27	SRC Solenoid Circuit	Master cylinder solenoid	BC-74
C1228/28	STR Solenoid Circuit	Master cylinder solenoid	BC-74
C1235/35	Foreign Object is Attached on Tip of Front Speed Sensor RH	1. Front speed sensor RH 2. Front speed sensor RH circuit 3. Master cylinder solenoid (skid control ECU)	BC-59
C1236/36	Foreign Object is Attached on Tip of Front Speed Sensor LH	1. Front speed sensor LH 2. Front speed sensor LH circuit 3. Master cylinder solenoid (skid control ECU)	BC-59
C1238/38	Foreign Object is Attached on Tip of Rear Speed Sensor RH	1. Rear speed sensor RH 2. Rear speed sensor RH circuit 3. Master cylinder solenoid (skid control ECU)	BC-67
C1239/39	Foreign Object is Attached on Tip of Rear Speed Sensor LH	1. Rear speed sensor LH 2. Rear speed sensor LH circuit 3. Master cylinder solenoid (skid control ECU)	BC-67
C1241/41	Low Battery Positive Voltage	1. Battery 2. Charging system 3. ECU-IG fuse 4. Power source circuit 5. Master cylinder solenoid (skid control ECU)	BC-97
C1242/42	IG2 Power Source Circuit	1. Battery 2. Charging system 3. IGN fuse 4. Power source circuit 5. Master cylinder solenoid (skid control ECU)	BC-101
C1243/43 (*1)	Deceleration Sensor Stuck Malfunction	1. Yaw rate and deceleration sensor 2. Yaw rate and deceleration sensor circuit	BC-79
C1244/44	Open or Short in Deceleration Sensor Circuit	1. Yaw rate and deceleration sensor 2. Yaw rate and deceleration sensor circuit	BC-79
C1245/45 (*1)	Deceleration Sensor Output Malfunction	1. Yaw rate and deceleration sensor 2. Yaw rate and deceleration sensor circuit	BC-79
C1246/46	Master Cylinder Pressure Sensor Malfunction	1. Hydraulic brake booster (master cylinder pressure sensor) 2. Stop light switch circuit 3. Master cylinder solenoid (skid control ECU)	BC-104
C1248/48	Open Circuit in Rear Differential Lock	1. Rear differential lock position switch 2. Rear differential lock position switch circuit 3. Master cylinder solenoid (skid control ECU)	BC-108
C1249/49	Open in Stop Light Switch Circuit	1. Stop light switch assembly 2. Stop light switch circuit 3. Master cylinder (skid control ECU)	BC-111
C1251/51 (*4)	Open in Pump Motor Circuit	1. Brake booster pump assembly 2. Master cylinder solenoid (skid control ECU)	BC-115

DTC No.	Detection Item	Trouble Areas	See page
C1252/52 (*2) (*4)	Brake Booster Pump Motor on Time Abnormally Long	1. Brake booster pump assembly 2. Hydraulic brake booster (accumulator pressure sensor) 3. Master cylinder solenoid (skid control ECU)	BC-117
C1253/53 (*2)	Hydro Booster Pump Motor Relay Malfunction	1. ABS MTR fuse 2. +BS terminal circuit 3. Master cylinder solenoid (skid control ECU)	BC-120
C1254/54	Pressure Switch Circuit	1. Master cylinder solenoid (skid control ECU) 2. Hydraulic brake booster (accumulator pressure sensor) 3. Hydraulic brake booster (master cylinder pressure sensor)	BC-124
C1256/56 (*2) (*4)	Accumulator Low Pressure	1. Hydraulic circuit 2. Hydraulic brake booster (accumulator pressure sensor) 3. Master cylinder solenoid (skid control ECU)	BC-127
C1257/57	IG Power Source	1. Brake booster pump assembly 2. Master cylinder solenoid (skid control ECU)	BC-130
C1268/68 (*3)	Transfer "L4" Position Switch Circuit	1. Transfer indicator switch (L4 position) 2. Transfer indicator switch (L4 position) circuit 3. Master cylinder solenoid (skid control ECU)	BC-138
C1337/37	Different Diameter Tire Malfunction	1. Speed sensor circuit 2. Tire sizes 3. Master cylinder solenoid (skid control ECU)	BC-142
C1381/97	Yaw Rate and / or Acceleration Sensor Power Supply Voltage Malfunction	1. Yaw rate and deceleration sensor 2. Yaw rate and deceleration sensor circuit	BC-79
U0073/94	Control Module Communication Bus OFF	CAN communication system	BC-149
U0124/95	Lost Communication with Lateral Acceleration Sensor Module	CAN communication system	BC-149

HINT:

(*1), (*2):

Even after the trouble areas are repaired, the ABS warning light will not go off unless the following operations are performed.

- (*1):
 - (a) Drive the vehicle at 12 mph (20 km/h) for 30 seconds or more and check that the ABS warning light goes off.
 - (b) Clear the DTC.
- (*2):
 - (a) Keep the vehicle stationary for 5 seconds or more and depress the brake pedal several times.
 - (b) Repeat the above operation 3 times or more and check that the ABS warning light goes off.
 - (c) Clear the DTC.
- (*3): 4WD only
- (*4): Skid control buzzer sounds.

DTC chart of VSC

DTC No.	Detection Item	Trouble Areas	See page
C1201/51	Engine Control System Malfunction	Engine control system	BC-82
C1203/53	ECM Communication Circuit Malfunction	1. CAN communication system 2. ECM	BC-86
C1210/36	Zero Point Calibration of Yaw Rate Sensor Undone	1. Yaw rate sensor and deceleration sensor 2. Zero point calibration not complete 3. PNP switch circuit (P position) (A/T) 4. Parking brake switch circuit (M/T) 5. Master cylinder solenoid (skid control ECU)	BC-87
C1223/43	ABS Control System Malfunction	ABS control system	BC-92
C1231/31	Steering Angle Sensor Circuit Malfunction	1. Steering angle sensor 2. Steering angle sensor circuit 3. CAN communication system 4. Master cylinder solenoid (skid control ECU)	BC-93
C1232/32	Stuck in Deceleration Sensor	1. Yaw rate and deceleration sensor 2. Yaw rate and deceleration sensor circuit	BC-79
C1234/34	Yaw Rate Sensor Malfunction	1. Yaw rate and deceleration sensor 2. Yaw rate and deceleration sensor circuit	BC-79
C1258/58	Transfer 4WD Position Switch Circuit	1. Transfer indicator switch (4WD position) (A/T) 2. Transfer indicator switch (4WD position) circuit (A/T) 3. Transfer indicator switch (center differential lock position) (M/T) 4. Transfer indicator switch (center differential lock position) circuit (A/T) 5. Master cylinder solenoid (skid control ECU)	BC-131
C1290/66	Steering Angle Sensor Zero Point Malfunction	Steering angle sensor	BC-93
C1336/39	Zero Point Calibration of Acceleration Sensor Undone	1. Yaw rate sensor and deceleration sensor 2. Zero point calibration not complete 3. PNP switch circuit (P position) (A/T) 4. Parking brake switch circuit (M/T) 5. Master cylinder solenoid (skid control ECU)	BC-87
C1380/64	Stop Light Control Relay Malfunction	1. Stop light switch assembly 2. Stop light switch circuit 3. Stop LP CTRL relay 4. Master cylinder solenoid (skid control ECU)	BC-144
U0100/65	Lost Communication with ECM / PCM	CAN communication system	BC-149
U0123/62	Lost Communication with Yaw Rate Sensor Module	CAN communication system	BC-149
U0126/63	Lost Communication with Steering Angle Sensor Module	CAN communication system	BC-149

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Test Mode DTC of ABS

DTC No.	Detection Item	Trouble Areas	See page
C1271/71	Low Output Signal of Front Speed Sensor RH (Test Mode DTC)	1. Front speed sensor RH 2. Front speed sensor RH circuit 3. Sensor installation 4. Skid control sensor wire 5. Master cylinder solenoid (skid control ECU)	BC-59
C1272/72	Low Output Signal of Front Speed Sensor LH (Test Mode DTC)	1. Front speed sensor LH 2. Front speed sensor LH circuit 3. Sensor installation 4. Skid control sensor wire 5. Master cylinder solenoid (skid control ECU)	BC-59
C1273/73	Low Output Signal of Rear Speed Sensor RH (Test Mode DTC)	1. Rear speed sensor RH 2. Rear speed sensor RH circuit 3. Sensor installation 4. Skid control sensor wire 5. Master cylinder solenoid (skid control ECU)	BC-67
C1274/74	Low Output Signal of Rear Speed Sensor LH (Test Mode DTC)	1. Rear speed sensor LH 2. Rear speed sensor LH circuit 3. Sensor installation 4. Skid control sensor wire 5. Master cylinder solenoid (skid control ECU)	BC-67
C1275/75	Abnormal Change in Output Signal of Front Speed Sensor RH (Test Mode DTC)	1. Front speed sensor RH 2. Front speed sensor RH circuit 3. Master cylinder solenoid (skid control ECU)	BC-59
C1276/76	Abnormal Change in Output Signal of Front Speed Sensor LH (Test Mode DTC)	1. Front speed sensor LH 2. Front speed sensor LH circuit 3. Master cylinder solenoid (skid control ECU)	BC-59
C1277/77	Abnormal Change in Output Signal of Rear Speed Sensor RH (Test Mode DTC)	1. Rear speed sensor RH 2. Rear speed sensor RH circuit 3. Master cylinder solenoid (skid control ECU)	BC-67
C1278/78	Abnormal Change in Output Signal of Rear Speed Sensor LH (Test Mode DTC)	1. Rear speed sensor LH 2. Rear speed sensor LH circuit 3. Master cylinder solenoid (skid control ECU)	BC-67
C1279/79	Deceleration Sensor Output Voltage Malfunction (Test Mode DTC)	1. Yaw rate and deceleration sensor 2. Yaw rate and deceleration sensor circuit	BC-79
C1281/81	Master Cylinder Pressure Sensor Output Malfunction (Test Mode DTC)	1. Hydraulic brake booster (master cylinder pressure sensor) 2. Stop light switch circuit 3. Master cylinder solenoid (skid control ECU)	BC-104
C1282/82	Center Differential Lock Position Switch Malfunction (Test Mode DTC)	1. Transfer indicator switch (4WD position) (A/T) 2. Transfer indicator switch (4WD position) circuit (A/T) 3. Transfer indicator switch (center differential lock position) (M/T) 4. Transfer indicator switch (center differential lock position) circuit (A/T) 5. Master cylinder solenoid (skid control ECU)	BC-131

DTC No.	Detection Item	Trouble Areas	See page
C1283/83	L4 Position Switch Malfunction (Test Mode DTC)	1. Transfer indicator switch (L4 position) 2. Transfer indicator switch (L4 position) circuit 3. Master cylinder solenoid (skid control ECU)	BC-138

Test Mode DTC of VSC

DTC No.	Detection Item	Trouble Areas	See page
C0371/71	Yaw Rate Sensor (Test Mode DTC)	1. Yaw rate and deceleration sensor 2. Yaw rate and deceleration sensor circuit	BC-79