

## DIAGNOSTIC TROUBLE CODE CHART

### NOTICE:

- When removing the part, turn the ignition switch OFF.
- When replacing the steering angle sensor or ECU, make sure to perform steering angle sensor zero point calibration.

### HINT:

- Using SST 09843-18020, connect the terminals Tc and E<sub>1</sub>.
- If any abnormality is not found when inspecting parts, inspect the ECU.
- If a malfunction code is displayed during the DTC check, check the circuit corresponding the code. For details of each code, refer to the page under respective "DTC No." in the DTC chart.

### DTC chart of ABS system:

DTC No. (See Page)	Detection Item	Trouble Area
C0278 / 11 (DI-285)	Open or short circuit in ABS solenoid relay circuit	<ul style="list-style-type: none"> <li>• ABS SOL relay</li> <li>• ABS SOL relay circuit</li> </ul>
C0273 / 13 (DI-281)	Open or short circuit in ABS motor relay circuit	<ul style="list-style-type: none"> <li>• ABS MTR relay</li> <li>• ABS MTR relay circuit</li> </ul>
C0226 / 21 (DI-278)	Open or short circuit in brake actuator	<ul style="list-style-type: none"> <li>• Brake actuator</li> <li>• SFRR or SFRH circuit</li> </ul>
C0236 / 22 (DI-278)	Open or short circuit in brake actuator	<ul style="list-style-type: none"> <li>• Brake actuator</li> <li>• SFLR or SFLH circuit</li> </ul>
C0246 / 23 (DI-278)	Open or short circuit in brake actuator	<ul style="list-style-type: none"> <li>• Brake actuator</li> <li>• SRRR or SRRH circuit</li> </ul>
C0256 / 24 (DI-278)	Open or short circuit in brake actuator	<ul style="list-style-type: none"> <li>• Brake actuator</li> <li>• SRLR or SRLH circuit</li> </ul>
C0200 / 31* (DI-272)	Right front wheel speed sensor signal malfunction	<ul style="list-style-type: none"> <li>• Right front, left front, right rear and left rear speed sensor</li> <li>• Each speed sensor circuit</li> <li>• Speed sensor rotor</li> </ul>
C0205 / 32* (DI-272)	Left front wheel speed sensor signal malfunction	
C0210 / 33* (DI-272)	Right rear wheel speed sensor signal malfunction	
C0215 / 34* (DI-272)	Left rear wheel speed sensor signal malfunction	
C1330 / 35* (DI-272)	Open circuit in right front speed sensor circuit	<ul style="list-style-type: none"> <li>• Right front speed sensor</li> <li>• Right front speed sensor circuit</li> </ul>
C1331 / 36* (DI-272)	Open circuit in left front speed sensor circuit	<ul style="list-style-type: none"> <li>• Left front speed sensor</li> <li>• Left front speed sensor circuit</li> </ul>
C1237 / 37 (DI-300)	Front tires are different from rear in size.	<ul style="list-style-type: none"> <li>• Tire size</li> <li>• Speed sensor rotor</li> </ul>
C1332 / 38* (DI-272)	Open circuit in right rear speed sensor circuit	<ul style="list-style-type: none"> <li>• Right rear speed sensor</li> <li>• Right rear speed sensor circuit</li> </ul>
C1333 / 39* (DI-272)	Open circuit in left rear speed sensor circuit	<ul style="list-style-type: none"> <li>• Left rear speed sensor</li> <li>• Left rear speed sensor circuit</li> </ul>
C1241 / 41 (DI-302)	Low battery positive voltage or abnormally high battery positive voltage	<ul style="list-style-type: none"> <li>• Battery</li> <li>• Charging system</li> <li>• Power source circuit</li> </ul>
C1249 / 58 (DI-308)	Open circuit in stop light switch circuit	<ul style="list-style-type: none"> <li>• Stop light switch</li> <li>• Stop light switch circuit</li> </ul>

C1300 / 62 (DI-310)	Malfunction in ABS & BA & TRAC & VSC ECU	ABS & BA & TRAC & VSC ECU
Always ON (DI-324)	Malfunction in ABS & BA & TRAC & VSC ECU Open circuit in ABS warning light circuit	<ul style="list-style-type: none"> <li>• Charging system</li> <li>• ABS warning light circuit</li> </ul>

\*: As the DTC cannot be erased only by replacing parts, do either of the following operations.

(1) Clear DTC (See page [DI-257](#) ).

(2) At a vehicle speed of 20 km/h (12 mph), drive the vehicle for 30 sec. or more.

### DTC chart of VSC system:

DTC No. (See Page)	Detection Item	Trouble Area
C1225 / 25 (DI-278)	Open or short circuit in brake actuator solenoid circuit (SMC1 circuit)	<ul style="list-style-type: none"> <li>• Brake actuator</li> <li>• SMC1 circuit</li> </ul>
C1226 / 26 (DI-278)	Open or short circuit in brake actuator solenoid circuit (SMC2 circuit)	<ul style="list-style-type: none"> <li>• Brake actuator</li> <li>• SMC2 circuit</li> </ul>
C1227 / 27 (DI-278)	Open or short circuit in brake actuator solenoid circuit (SRC1 circuit)	<ul style="list-style-type: none"> <li>• Brake actuator</li> <li>• SRC1 circuit</li> </ul>
C1228 / 28 (DI-278)	Open or short circuit in brake actuator solenoid circuit (SRC2 circuit)	<ul style="list-style-type: none"> <li>• Brake actuator</li> <li>• SRC2 circuit</li> </ul>
C1301 / 42*	Malfunction in communication with the translate ECU	<ul style="list-style-type: none"> <li>• Brake fluid level warning switch circuit</li> <li>• Translate ECU</li> <li>• Translate ECU circuit</li> <li>• Steering angle sensor</li> <li>• ECM</li> <li>• ECM circuit</li> </ul>
C0365 / 43 (DI-290)	Malfunction in deceleration sensor (combined in yaw rate sensor)	<ul style="list-style-type: none"> <li>• Deceleration sensor</li> <li>• Deceleration sensor circuit</li> </ul>
C1202 / 44 (DI-295)	Brake fluid level low Open circuit in brake fluid level warning switch circuit	<ul style="list-style-type: none"> <li>• Brake fluid level</li> <li>• Brake fluid level warning switch</li> <li>• Brake fluid level warning switch circuit</li> </ul>
C1350 / 51 (DI-311)	Pump motor is locked Open circuit in pump motor ground	<ul style="list-style-type: none"> <li>• Brake actuator pump motor</li> <li>• Brake actuator pump motor circuit</li> </ul>
C1351 / 52 (DI-313)	VSC pump motor is locked Open or short circuit in VSC pump motor circuit	<ul style="list-style-type: none"> <li>• Precharge pump motor</li> <li>• Precharge pump motor circuit</li> </ul>
C1246 / 53 (DI-305)	Malfunction in master cylinder pressure sensor	<ul style="list-style-type: none"> <li>• Master cylinder pressure sensor</li> <li>• Master cylinder pressure sensor circuit</li> </ul>
C1208 / 54 (DI-297)	Malfunction in steering angle sensor	<ul style="list-style-type: none"> <li>• Steering angle sensor</li> <li>• Steering angle sensor circuit</li> </ul>
C0371 / 55 (DI-292)	Malfunction in yaw rate sensor circuit	<ul style="list-style-type: none"> <li>• Yaw rate sensor</li> <li>• Yaw rate sensor circuit</li> </ul>
Always ON (DI-327)	Malfunction in ABS & BA & TRAC & VSC ECU Open circuit in VSC warning light circuit	<ul style="list-style-type: none"> <li>• Charging system</li> <li>• VSC warning light circuit</li> </ul>

\*: Troubleshoot according to the DTC chart of the translate ECU.

**DTC chart of translate ECU(When DTC "C1301/42" of VSC system is output):**

DTC No. (See Page)	Detection Item	Trouble Area
Normal code* (DI-322)	Malfunction in ECM control system	<ul style="list-style-type: none"> <li>• ECM circuit</li> <li>• ECM</li> <li>• Brake fluid level</li> <li>• Brake fluid level warning switch circuit</li> <li>• Steering angle sensor</li> <li>• ABS &amp; BA &amp; TRAC &amp; VSC ECU</li> </ul>
42 (DI-316)	Malfunction in communication with the ABS & BA & TRAC & VSC ECU	<ul style="list-style-type: none"> <li>• VSC+ or VSC- circuit</li> <li>• Translate ECU</li> <li>• ABS &amp; BA &amp; TRAC &amp; VSC ECU</li> </ul>
44 (DI-318)	Open or short circuit in NEO circuit	<ul style="list-style-type: none"> <li>• NEO circuit</li> <li>• ECM</li> <li>• Translate ECU</li> </ul>
53 (DI-320)	Malfunction in communication with the ECM	<ul style="list-style-type: none"> <li>• TRC+ or TRC- circuit</li> <li>• ENG+ or ENG- circuit</li> <li>• ECM</li> <li>• Translate ECU</li> </ul>
Non code (DI-323)	Malfunction in translate ECU	<ul style="list-style-type: none"> <li>• Tc terminal circuit</li> <li>• BRAKE warning light circuit</li> <li>• Translate ECU</li> </ul>

\*: Translate ECU is normal.

**HINT:**

The BRAKE warning light does not turn on due to an error in VSC.

If it is on, check that the parking brake pedal is released, the brake fluid level is normal and no malfunction is identified in the fluid level warning switch system.