DTC C1223/43 ABS Control System Malfunction

DESCRIPTION

This DTC is output when the VSC system detects a malfunction in the ABS system. When DTC C1223/43 is stored, there is no malfunction in the skid control ECU.

DTC No.	DTC Detecting Condition	Trouble Areas	B
C1223/43	ABS control system abnormal	ABS control system	

INSPECTION PROCEDURE

	1	CHECK DTC
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- (a) Clear the DTC (See page BC-45).
- (b) Check if the same DTC is recorded (See page BC-45).

Result

Result	Proceed to
DTC output	A
DTC not output	В

A

REPAIR CIRCUITS INDICATED BY OUTPUT DTCS

DTC	C1231/31	Steering Angle Sensor Circuit Malfunction
DTC	C1290/66	Steering Angle Sensor Zero Point Malfunction

BC DESCRIPTION

The steering angle sensor signal is sent to the skid control ECU via the CAN communication system. When there is a malfunction in the communication system, the DTC will be detected by the diagnosis function.

DTC No.	DTC Detecting Conditions	Trouble Areas	
C1231/31	When ECU IG1 terminal voltage 9.5 V or more, steering angle sensor malfunction signal received.	 Steering angle sensor Steering angle sensor circuit CAN communication system Master cylinder solenoid (skid control ECU) 	
C1290/66	Steering angle sensor zero point calibration position significantly differs from recorded value.	Steering angle sensor	

WIRING DIAGRAM



INSPECTION PROCEDURE

NOTICE:

When replacing the master cylinder solenoid, perform zero point calibration (See page BC-24). HINT:

• When U0073/94, U0123/62, U0124/95 or U0126/63 are output together with C1231/31, inspect and repair the trouble areas indicated by U0073/94, U0123/62, U0124/95 or U0126/63 first.

 When the speed sensor or the yaw rate sensor has trouble, DTCs relating to the steering angle sensor may be output even when the steering angle sensor is normal. When DTCs relating to the speed sensor (C0200/31, C0205/32, C0210/33, C0215/34, C1235/35, C1236/36, C1238/38, C1239/39) or yaw rate (deceleration) sensor (C1232/32, C1234/34, C1243/43, C1244/44, C1245/45, C1381/97) are output together with other DTCs relating to the steering angle sensor, inspect and repair the speed sensor and yaw rate (deceleration) sensor first, and then inspect and repair the steering angle sensor.

CHECK CAN COMMUNICATION SYSTEM

(a) Check for CAN communication system DTCs (See page CA-14).

		CA-	14).	
Result			,	
Result				Proceed to
DTC not outpu	it			A
DTC output				В
	г			
		В	> REPAIR CA	N COMMUNICATION SYSTEM
A				
2 CHECK MOMENTARY	(INTERRUP	TION (S	TEERING ANG	LE SENSOR)
 (a) Connect the intelligent tester to the DLC3. (b) Turn the ignition switch on. (c) Turn the tester on. (d) Using a intelligent tester, check for any momentary interruption in the wire harness and connector corresponding to a DTC. Select the following menu items: DIAGNOSIS / OBD/ MOBD / select vehicle / ABS/VSC / DATA LIST. 				
DATA LIST: ABS/VSC				
Item	Measureme	ent Item / R	ange (Display)	Normal Condition
STEERING SEN	STEERING SEN Steering angle		ORMAL ORN_DET: Momentary interruption	

OK:

There are no momentary interruptions.

Result

1

Result	Proceed to		
OK (When troubleshooting in accordance with DTC CHART)	A		
OK (When troubleshooting in accordance with PROBLEM SYMPTOMS TABLE)	В		
NG	С		
B PROCEED TO NEXT CIRCUIT INSPECTION			

>|

С

Go to step 4

BC–97

BC



ОК

5

(E16)

REPLACE STEERING ANGLE SENSOR

2 3 4 5 6 7 8

10111213141516

9

BAT

(a) Replace the steering angle sensor (See page BC-205).

REPAIR OR REPLACE HARNESS OR

11 to 14 V

NEXT

6	RECONFIRM DTC			
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NG

C135282E01

(a) Clear the DTCs (See page BC-45).

E16-9 (BAT) - E16-2 (ESS)

CONNECTOR

 (b) Check if the same DTCs are recorded (See page BC-45).

Result

Result	Proceed to	
DTC output	A	
DTC not output	В	
В	> END	BC



REPLACE MASTER CYLINDER SOLENOID