

DTC U0151:00 [DYNAMIC STABILITY CONTROL (DSC)]

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DTC	U0151:00	SAS control module system (CAN2 line malfunction)
DETECTION CONDITION	Communication error with SAS control module is detected in CAN communication.	
FAIL-SAFE FUNCTION	<ul style="list-style-type: none">• Illuminates the brake system warning light*1, TCS/DSC indicator light, and master warning light*1*2.• Tire pressure monitoring system warning light illuminates after flashes. (Not illuminated/flushed depending on malfunction content.)• Inhibits the ABS*3, TCS*3, DSC*3, roll over mitigation (ROM)*3, brake assist control*3, vehicle roll prevention function*3*4, hill launch assist (HLA)*3, TPMS*3, smart city brake support (SCBS)*2*3, and secondary collision reduction (SCR)*3 controls. <p>*1: Not illuminated depending on malfunction content.</p> <p>*2: Vehicles with smart city brake support (SCBS)</p> <p>*3: Enabled depending on malfunction content.</p> <p>*4: ATX only</p>	
POSSIBLE CAUSE	<ul style="list-style-type: none">• SAS control module malfunction• Open or short circuit in the CAN2_H wiring harness between DSC HU/CM terminal S and SAS control module terminal 3H• Open or short circuit in the CAN2_L wiring harness between DSC HU/CM terminal P and SAS control module terminal 3I• DSC HU/CM malfunction• Poor connection at connectors (female terminal)	

DSC HU/CM

CAN DRIVER

S

P

CAN2_H

CAN2_L

3H

3I

CAN DRIVER

SAS CONTROL MODULE

DSC HU/CM WIRING HARNESS-SIDE CONNECTOR

A

C

F

I

L

O

R

U

X

AA

AD

AG

AJ

AK

B

D

G

J

M

P

S

V

Y

AB

AE

AH

E

H

K

N

Q

T

W

Z

AC

AF

AI

AL

SAS CONTROL MODULE WIRING HARNESS-SIDE CONNECTOR

3V

3S

3J

3G

3D

3A

3W

3T

3Q

3N

3K

3H

3E

3B

3X

3U

3R

3O

3L

3I

3F

3C

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Diagnostic procedure

STEP	INSPECTION	ACTION
1	INSPECT SAS CONTROL MODULE MALFUNCTION	Yes
	<ul style="list-style-type: none"> Switch the ignition to off. Using the M-MDS, perform the DTC inspection for the SAS control module. (See DTC INSPECTION.) Are any DTCs detected? 	<p>Go to applicable DTC inspection. (See DTC TABLE.)</p> <p>Go to the next step.</p>

STEP	INSPECTION		ACTION
2	INSPECT SAS CONTROL MODULE SIGNAL (CAN2 LINE) FOR OPEN CIRCUIT <ul style="list-style-type: none"> • Disconnect the DSC HU/CM connector. • Disconnect the SAS control module connectors. • Inspect for continuity between the following DSC HU/CM connector terminals (vehicle harness-side) and SAS control module connector terminals (vehicle harness-side): <ul style="list-style-type: none"> — DSC HU/CM terminal S—SAS control module terminal 3H — DSC HU/CM terminal P—SAS control module terminal 3I • Is there continuity? 	Yes	Go to the next step.
		No	Repair or replace the wiring harness, then go to Step 4.
3	INSPECT SAS CONTROL MODULE SIGNAL (CAN2 LINE) FOR SHORT CIRCUIT <ul style="list-style-type: none"> • Inspect for continuity between the following DSC HU/CM connector terminals (vehicle harness-side) and body ground: <ul style="list-style-type: none"> — DSC HU/CM terminal S—body ground — DSC HU/CM terminal P—body ground • Is there continuity? 	Yes	Repair or replace the wiring harness, then go to the next step.
		No	Go to the next step.
4	VERIFY THAT THE SAME DTC IS NOT PRESENT <ul style="list-style-type: none"> • Reconnect all disconnected connectors. • Clear the DTCs from the memory. (See ON-BOARD DIAGNOSIS [DYNAMIC STABILITY CONTROL (DSC)].) • Start the engine and drive the vehicle at 10 km/h {6.2 mph} or more. • Are the same DTCs present? 	Yes	Repeat the inspection from Step 1. If the malfunction recurs, replace the DSC HU/CM, then go to the next step. (See DSC HU/CM REMOVAL/INSTALLATION.)
		No	Go to the next step.
5	VERIFY THAT NO OTHER DTCS ARE PRESENT <ul style="list-style-type: none"> • Are any other DTCs output? 	Yes	Go to the applicable DTC inspection. (See ON-BOARD DIAGNOSIS [DYNAMIC STABILITY CONTROL (DSC)].)
		No	DTC troubleshooting completed.