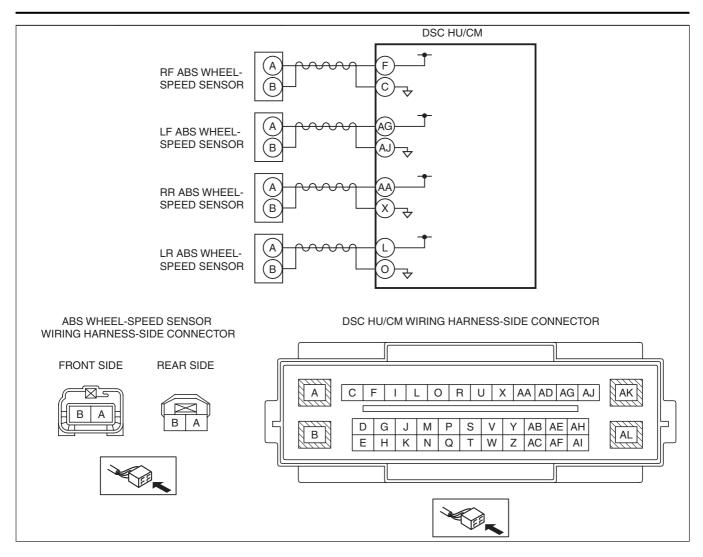
DTC C0030:07/C0031:07/C0031:29/C0031:2F/C0031:64/C0033:07/C0034:07/C0034:29/C0034:2F/C0034:64/C0036:07/C0037:07/C0037:29/C0037:2F/C0037:64/C0039:07/C003A:07/C003A:29/C003A:2F/C003A:64 [DYNAMIC STABILITY CONTROL (DSC)]

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## Note

• When only the driving wheels are rotated while the vehicle is jacked up, DTCs C0037:29 and C003A:29 are input to the memory.

DTC	C0030:07		LF ABS sensor rotor				
	C0031:07, C0031:29, C0031:2F, C0031:64		LF ABS wheel-speed sensor/ABS sensor rotor				
	C0033:07		RF ABS sensor rotor				
	C0034:07, C0034:29, C0034:2F, C0034:64		RF ABS wheel-speed sensor/ABS sensor rotor				
	C0036:07		LR ABS sensor rotor				
	C0037:07, C0037:29, C0037:2F, C0037:64		LR ABS wheel-speed sensor/ABS sensor rotor				
	C0039:07		RR ABS sensor rotor				
	C003A:07, C003A:29, C003A:2F, C003A:64		RR ABS wheel-speed sensor/ABS sensor rotor				
	•	• C0030:07, C0033:07, C0036	S:07, C0039:07				
DETECTION CONDITION		— Periodic abnormality is detected in the signal wave pattern from the ABS wheel-speed sensors.  • C0031:07, C0034:07, C0037:07, C003A:07					
		<ul> <li>While the vehicle is traveling at a speed of 10 km/h {6.2 mph} or more, no signal in any of the four wheels or an extremely low vehicle speed signal is detected.</li> <li>C0031:29, C0034:29, C0037:29, C003A:29</li> </ul>					
		<ul> <li>The wheel-speed signal is not input or an extremely low wheel-speed signal is detected from any of the four wheels when driving at a vehicle speed of 10 km/h {6.2 mph} or more</li> <li>C0031:2F, C0034:2F, C0037:2F, C003A:2F</li> </ul>					
		<ul> <li>The wheel speed or acceleration speed in any of the 4 wheels is not within the specification.</li> <li>ABS control continues to operate for 28 s or more.</li> <li>C0031:64, C0034:64, C0037:64, C003A:64</li> </ul>					
		<ul> <li>While the vehicle is traveling at a speed of 20 km/h {12 mph} or more, an extremely high vehicle speed signal in any of the four wheels is detected.</li> </ul>					
		• Illuminates the ABS warning light, TCS/DSC indicator light, and master warning light*1. • Tire pressure monitoring system warning light illuminates after flashes.					
		• Inhibits the ABS, TCS, DSC, roll over mitigation (ROM), brake assist control, vehicle roll prevention					
	L-SAFE NCTION	reduction (SCR) controls.					
		(Additionally, when any malfunction is detected in two wheels or more, EBD control is inhibited and the brake system warning light is illuminated.)					
		*1: Vehicles with smart city brake support (SCBS)					
		*2: ATX only					
		ABS sensor rotor malfunction (missing ABS sensor rotor teeth due to foreign material obstruction)					
DO:	00IDI E	• ABS wheel-speed sensor or ABS sensor rotor installation malfunction (If the ABS sensor rotor is installed					
	SSIBLE						
	AUSE	<ul> <li>Excessive clearance between the ABS wheel-speed sensor and sensor rotor</li> <li>ABS wheel-speed sensor malfunction</li> </ul>					
		Continuous ABS operation	anuncaon				



Diagnostic procedure

STEP	INSPECTION	ACTION	
1	INSPECT PID FOR ABS WHEEL-SPEED SENSOR	Yes	Go to Step 3.
	OUTPUT ERROR USING M-MDS	No	Go to the next step.
	Switch the ignition to off.		
	Connect the M-MDS to the DLC-2.		
	Select the following PIDs using the M-MDS:		
	— WSPD_SEN_LF		
	— WSPD_SEN_LR		
	— WSPD_SEN_RF		
	— WSPD_SEN_RR		
	Drive the vehicle.		
	Verify that the vehicle speeds detected by the four ABS		
	wheel-speed sensors are approximately the same.		
	Are the vehicle speeds approximately the same?		
2	INSPECT FOR SHORT TO GROUND BETWEEN ABS	Yes No	Go to the next step.
	WHEEL-SPEED SENSOR CONNECTORS AND		Repair or replace the wiring harness, then go to Step
	GROUND		5.
	Disconnect the ABS wheel-speed sensor connectors.		
	Inspect for no continuity between the following ABS		
	wheel-speed sensor connector terminals (vehicle		
	harness-side) and body ground:		
	<ul> <li>ABS wheel-speed sensor (RF): B—Body ground</li> </ul>		
	<ul> <li>ABS wheel-speed sensor (LF): B—Body ground</li> </ul>		
	<ul> <li>ABS wheel-speed sensor (RR): B—Body ground</li> </ul>		
	<ul> <li>ABS wheel-speed sensor (LR): B—Body ground</li> </ul>		
	Is the continuity normal?		

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STEP	INSPECTION		ACTION
3	INSPECT IF MALFUNCTION OCCURRED DUE TO	Yes	Go to the next step.
	IMPROPER SENSOR CLEARANCE.	No	Replace the ABS wheel-speed sensor, then go to
	Inspect the clearance between the ABS wheel-speed		Step 5.
	sensor and the ABS sensor rotor.		(See FRONT ABS WHEEL-SPEED SENSOR
	(See FRONT ABS WHEEL-SPEED SENSOR		REMOVAL/INSTALLATION.)
	INSPECTION.)		(See REAR ABS WHEEL-SPEED SENSOR
	(See REAR ABS WHEEL-SPEED SENSOR		REMOVAL/INSTALLATION.)
	INSPECTION [2WD].)		
	(See REAR ABS WHEEL-SPEED SENSOR		
	INSPECTION [4WD].)		
	Is the clearance normal?		
4	VISUALLY INSPECT ABS SENSOR ROTOR FOR	Yes	Go to the next step.
	FOREIGN MATERIAL ADHERING OR IMPROPER	No	Repair or replace the ABS sensor rotor, then go to the
	INSTALLATION		next step.
	Is the result normal?		Front ABS sensor rotor (front wheel hub)
			(See WHEEL HUB, STEERING KNUCKLE
			REMOVAL/INSTALLATION.)
			Rear ABS sensor rotor (rear wheel hub (2WD) or
			shaft and ball joint component (4WD))
			(See WHEEL HUB COMPONENT REMOVAL/
			INSTALLATION [2WD].)
			(See REAR DRIVE SHAFT DISASSEMBLY/
			ASSEMBLY.)
5	VERIFY THAT THE SAME DTC IS NOT PRESENT	Yes	Repeat the inspection from Step 1.
	Reconnect all disconnected connectors.		If the malfunction recurs, replace the DSC HU/CM,
	Clear the DTCs from the memory.		then go to the next step.
	(See ON-BOARD DIAGNOSIS [DYNAMIC STABILITY		(See DSC HU/CM REMOVAL/INSTALLATION.)
	CONTROL (DSC)].)	No	Go to the next step.
	• Start the engine and drive the vehicle at 20 km/h {12		
	mph} or more.		
	Are the same DTCs present?		
6	VERIFY THAT NO OTHER DTCS ARE PRESENT	Yes	Go to the applicable DTC inspection.
	Are any other DTCs output?		(See ON-BOARD DIAGNOSIS [DYNAMIC
			STABILITY CONTROL (DSC)].)
		No	DTC troubleshooting completed.