DTC B1197:11/B1197:13/B1197:87/B1197:96

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System malfunction location	• B1197:13: Passenger-side side air bag sensor No.2 circuit open circuit or short to power supply • B1197:87: Signal recention error from passenger side side air bag sensor No.2			
Detection condition	Warning Detection conditions are for understanding the DTC outline before performing an inspection. Performing an inspection according to only the detection conditions may cause injury due to an operating error, or damage the system. When performing an inspection, always follow the inspection procedure.			
Fail-safe	_			
Possible cause	Passenger-side side air bag sensor No.2 connector malfunction Short circuit to power supply or body ground in the wiring harness between the passenger-side side air bag sensor No.2 and SAS control module Open circuit in the wiring harness between the passenger-side side air bag sensor No.2 and SAS control module Passenger-side side air bag sensor No.2 malfunction SAS control module malfunction			
	SAS CONTROL 1L A PASSENGER-SIDE SIDE AIR BAG SENSOR NO.2 TWISTED PAIR			
SAS CONTROL MODULE WIRING PASSENGER-SIDE SIDE AIR BAG SENSOR NO.2 HARNESS-SIDE CONNECTOR WIRING HARNESS-SIDE CONNECTOR				
1b 1a 1V 1S				

Diagnostic Procedure

Step	Inspection		Action
1	INSPECT PASSENGER-SIDE SIDE AIR BAG	Yes	Replace the malfunctioning part, then go to Step 5.
1	INSPECT PASSENGER-SIDE SIDE AIR BAG SENSOR NO.2 CONNECTOR Warning • Handling the component parts improperly can accidentally operate (deploy) the air bag module, which may seriously injure you. Read the service warnings/cautions and the workshop manual before handling the air bag	Yes No	Go to the next step.
	system components.		
	(See AIR BAG SYSTEM SERVICE WARNINGS.)		
	(See AIR BAG SYSTEM SERVICE		
	CAUTIONS.)		
	Switch the ignition to off. Disconnect the negative battery cable and wait for 1 min or more. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) Remove the passenger-side trunk side trim. (See TRUNK SIDE TRIM REMOVAL/INSTALLATION.) Disconnect the passenger-side side air bag sensor No.2 connector. (See SIDE AIR BAG SENSOR NO. 2 REMOVAL/INSTALLATION.) Inspect the passenger-side side air bag sensor No.2 connector. (Corrosion, damage, and disconnected pins) Is there any malfunction of the passenger-side		

Step			Action
2	INSPECT PASSENGER-SIDE SIDE AIR BAG	Yes	Replace the wiring harness for a possible short to ground,
	SENSOR NO.2 CIRCUIT FOR SHORT TO		then go to Step 5.
	GROUND	No	Go to the next step.
	Remove the column cover. (See COLUMN		·
	COVER REMOVAL/INSTALLATION.)		
	Disconnect the clock spring connector. (See		
	CLOCK SPRING REMOVAL/INSTALLATION.)		
	Remove the glove compartment. (See GLOVE)		
	COMPARTMENT REMOVAL/		
	INSTALLATION.)		
	Disconnect the passenger-side air bag module		
	connector. (See PASSENGER-SIDE AIR BAG		
	MODULE REMOVAL/INSTALLATION.)		
	Disconnect the driver and passenger-side front		
	seat connector. (See FRONT SEAT		
	REMOVAL/INSTALLATION.)		
	Remove the headliner. (See HEADLINER PENOVAL (NICTALL ATION)		
	REMOVAL/INSTALLATION.)		
	Disconnect the driver and passenger-side surtain air has module connector. (See		
	curtain air bag module connector. (See CURTAIN AIR BAG MODULE REMOVAL/		
	INSTALLATION.)		
	• Remove the B-pillar lower trim. (See B-PILLAR		
	LOWER TRIM REMOVAL/INSTALLATION.)		
	Disconnect the driver and passenger-side pre-		
	tensioner seat belt connector. (See FRONT		
	SEAT BELT REMOVAL/INSTALLATION.)		
	Remove the rear console. (See REAR		
	CONSOLE REMOVAL/INSTALLATION.)		
	Disconnect the all SAS control module		
	connectors. (See SAS CONTROL MODULE		
	REMOVAL/INSTALLATION.)		
	Inspect for continuity between the following		
	terminals (wiring harness-side) and body		
	ground:		
	SAS control module terminal 1L		
	SAS control module terminal 1K		
	Note		
	Inspect for continuity while shaking the		
	wiring harness between the SAS control		
	module and passenger-side side air bag		
	sensor No.2.		
	a la thora continuity?		
	Is there continuity?		

Step	Inspection		Action
3 IN	NSPECT PASSENGER-SIDE SIDE AIR BAG	Yes	Go to the next step.
• F 5 6 • I	Passenger-side side air bag sensor No.2 and SAS control module connectors are disconnected. Inspect for continuity between the following terminals (wiring harness-side): — Passenger-side side air bag sensor No.2 terminal A—SAS control module terminal 1L — Passenger-side side air bag sensor No.2 terminal B—SAS control module terminal 1K	No	Replace the wiring harness for a possible open circuit, then go to Step 5.
• 1	Note • Inspect for continuity while shaking the wiring harness between the SAS control module and passenger-side side air bag sensor No.2. Is there continuity?		
	NSPECT PASSENGER-SIDE SIDE AIR BAG	Yes	Replace the passenger-side side air bag sensor No.2, then
SI	ENSOR NO.2 CIRCUIT FOR SHORT TO		go to the next step. (See SIDE AIR BAG SENSOR NO. 2
-	OWER SUPPLY		REMOVAL/INSTALLATION.)
	Passenger-side side air bag sensor No.2 and SAS control module connectors are disconnected. Connect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) Switch the ignition ON (engine off or on). Measure the voltage at the following terminals (wiring harness-side): SAS control module terminal 1L SAS control module terminal 1K Note • Measure the voltage while shaking the wiring harness between the SAS control module and passenger-side side air bag sensor No.2.	No	Replace the wiring harness for a possible short to power supply, then go to the next step.

Step	Inspection		Action
5 5	PERFORM SAS CONTROL MODULE DTC	Yes	Replace the SAS control module. (See SAS CONTROL
	INSPECTION	103	MODULE REMOVAL/INSTALLATION.)
	Switch the ignition to off.	No	DTC troubleshooting completed.
	Disconnect the negative battery cable and wait	110	b to troubled flooting completed.
	for 1min or more .		
	(See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION		
	[SKYACTIV-G 2.0, SKYACTIV-G 2.5].)		
	(See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION		
	[SKYACTIV-G 2.0, SKYACTIV-G 2.5		
	(WITHOUT i-stop)].)		
	(See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION		
	[SKYACTIV-D 2.2].)		
	Connect the SAS control module connectors.		
	Reconnect all disconnected connectors.		
	Connect the negative battery cable.		
	(See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION		
	[SKYACTIV-G 2.0, SKYACTIV-G 2.5].)		
	(See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION		
	[SKYACTIV-G 2.0, SKYACTIV-G 2.5		
	(WITHOUT i-stop)].)		
	(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION		
	[SKYACTIV-D 2.2].) • Switch the ignition ON (engine off or on).		
	Clear the DTC for the SAS control module using		
	the M-MDS. (See CLEARING DTC.)		
	Perform the DTC inspection for the SAS control		
	module using the M-MDS. (See DTC		
	INSPECTION.)		
	Are the same DTCs present?		