

TROUBLESHOOTING

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AIR BAG SYSTEM

Foreword

- Refer to section GI and thoroughly read and understand the basic flow of troubleshooting in order to properly perform the procedures.
- For the steps that have an asterisk (*) , inspect the connector/terminal connection for continuity and damage. If the connection is poor, reconnect it, or repair or replace the appropriate parts if necessary.

Troubleshooting Index

- Use the chart below to verify the symptoms of the trouble in order to diagnose the appropriate area.

No.	Malfunction symptom
1	Air bag system warning light does not illuminate when ignition switch is turned to ON position.
2	Air bag system warning light illuminates immediately after ignition switch is turned to ON position and remains illuminated.

Symptom Troubleshooting

Note

- The following may be the cause of trouble if the symptom does not go away after the symptom troubleshooting steps are followed.
1. Poor contact at terminal G of short connector (6-pin) between instrument cluster and SAS unit.
 2. Simultaneous poor contact at terminals D and F of short connector (6-pin) between METER 15 A fuse and SAS unit, and ENGINE 15 A fuse and SAS unit, respectively.
 3. Simultaneous poor contact at terminals S and X of SAS unit connector (21-pin).
 4. Simultaneous poor contact at terminals AB and Z of SAS unit connector (21-pin).
 5. Simultaneous poor contact in wiring harness between terminal S of SAS unit connector (21-pin) and ground, terminal X of SAS unit connector (21-pin) and ground.
 6. Simultaneous poor contact in wiring harness between METER 15 A fuse and SAS unit, ENGINE 15 A fuse and SAS unit.

1	Air bag system warning light does not illuminate when ignition switch is turned to ON position.		
TROUBLESHOOTING HINTS Malfunction in SAS unit power supply/ground circuit 1 Air bag system warning light does not illuminate • SAS unit malfunction • Instrument cluster (print plate) malfunction • Terminal 1J of instrument cluster connector (16–pin) malfunction • Terminal 2J of instrument cluster connector (14–pin) malfunction • Terminal Q of SAS unit connector (21–pin) malfunction • Air bag system warning light bulb malfunction • Poor installation of air bag system warning light bulb • Poor connection at terminal 1J of instrument cluster connector (16–pin) • Poor connection at terminal 2J of instrument cluster connector (14–pin) • Poor connection at terminal Q of SAS unit connector (21–pin) • Poor contact in instrument cluster connectors (14, 16–pin) • Open or short circuit in wiring harness between instrument cluster and SAS unit			
STEP	INSPECTION		ACTION
1	Are instrument cluster connectors (14, 16–pin) securely connected?	Yes	Go to next step.
		No	Reconnect connector properly, then go to Step 10.
2	Is air bag system warning light bulb securely installed?	Yes	Go to next step.
		No	Reinstall properly, then go to Step 10.
3	Is air bag system warning light bulb functional?	Yes	Reinstall properly, then go to next step.
		No	Replace bulb, then go to Step 10.
4	Are terminal 1J of instrument cluster connector (16–pin) and terminal 2J of instrument cluster connector (14–pin) securely connected?	Yes	Go to next step.
		No	Reconnect properly, then go to Step 10.

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STEP	INSPECTION		ACTION
5	Are terminal 1J of instrument cluster connector (16-pin) and terminal 2J of instrument cluster connector (14-pin) damaged?	Yes	Replace air bag harness for malfunctioning terminal, then go to Step 10.
		No	Go to next step.
6	Is there continuity between terminals 1J and 2J of print plate of instrument cluster?	Yes	Go to next step.
		No	Replace instrument cluster, then go to Step 10. + WARNING AND INDICATOR SYSTEM, INSTRUMENT CLUSTER REMOVAL/INSTALLATION
7	Turn ignition switch to LOCK position. Disconnect negative battery cable and wait for more than 1 minute . Remove column cover. Disconnect clock spring connector. Remove glove compartment. (Vehicle with passenger-side air bag) Disconnect passenger-side air bag module connector. (Vehicle with passenger-side air bag) Remove front console. Disconnect SAS unit connector (21-pin). Is terminal Q of SAS unit connector (21-pin) securely connected?	Yes	Go to next step.
		No	Reconnect properly, then go to Step 10.
8	Is terminal Q of SAS unit connector (21-pin) damaged?	Yes	Replace air bag harness, then go to Step 10.
		No	Go to next step.
*9	Disconnect instrument cluster connector (14-pin). Is there continuity between terminal Q of SAS unit connector (21-pin) and terminal 2J of instrument cluster connector (14-pin)?	Yes	Replace SAS unit, then go to next step. + AIR BAG SYSTEM, SAS UNIT REMOVAL/INSTALLATION
		No	Replace air bag harness, then go to next step.
10	Connect SAS unit connector (21-pin). Connect passenger-side air bag module connector. (Vehicle with passenger-side air bag) Connect clock spring connector. Connect instrument cluster connector. Connect negative battery cable. When turning ignition switch to ON position, does air bag system warning light operate properly?	Yes	Troubleshooting completed. Explain repairs to customer.
		No	Recheck malfunction symptoms, then repeat from Step 1 if malfunction reoccurs.

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2	Air bag system warning light illuminates immediately after ignition switch is turned to ON position and remains illuminated.		
TROUBLESHOOTING HINTS Malfunction in air bag system warning light circuit 1 Air bag system warning light remains illuminated • SAS unit malfunction • Malfunction of short bar between terminals Q and S of SAS unit connector (21–pin) • No connection in SAS unit connector (21–pin) • Short circuit in wiring harness between instrument cluster and SAS unit			
STEP	INSPECTION		ACTION
1	Turn ignition switch to LOCK position. Disconnect negative battery cable and wait for more than 1 minute . Remove front console. Is SAS unit connector (21–pin) securely connected?	Yes	Go to next step.
		No	Reconnect properly, then go to Step 5.
2	Is short bar between terminals Q and S of SAS unit connector (21–pin) bent?	Yes	Replace air bag harness, then go to Step 5.
		No	Go to next step.
3	Is SAS unit short bar hook okay?	Yes	Go to next step.
		No	Replace SAS unit, then go to Step 5. + AIR BAG SYSTEM, SAS UNIT REMOVAL/INSTALLATION
*4	Remove column cover. Disconnect clock spring connector. Remove glove compartment. (Vehicle with passenger-side air bag) Disconnect passenger-side air bag module connector. (Vehicle with passenger-side air bag) Disconnect SAS unit connector (21–pin). Disconnect instrument cluster connector (14–pin). Insert insulating material between terminals Q and S of SAS unit connector (21–pin) so short bar cannot function. Is there continuity between terminal Q and ground?	Yes	Replace air bag harness, then go to next step.
		No	Replace SAS unit, then go to next step. + AIR BAG SYSTEM, SAS UNIT REMOVAL/INSTALLATION
5	Connect SAS unit connector (21–pin). Connect passenger-side air bag module connector. (Vehicle with passenger-side air bag) Connect clock spring connector. Connect instrument cluster connector. Connect negative battery cable. When turning ignition switch to ON position, does air bag system warning light operate properly?	Yes	Troubleshooting completed. Explain repairs to customer.
		No	Recheck malfunction symptoms, then repeat from Step 1 if malfunction reoccurs.