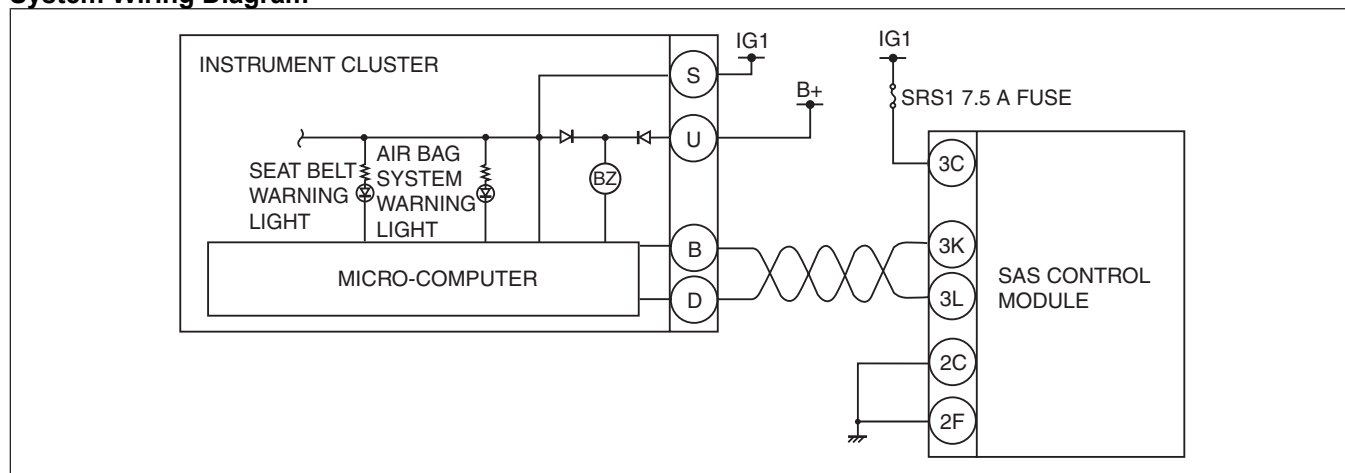


NO.2 AIR BAG SYSTEM WARNING LIGHT ILLUMINATES CONSTANTLY

id080300800300

2	Air bag system warning light illuminates constantly
DETECTION CONDITION	Air bag system warning light is illuminated constantly and remains illuminated after 6 s have elapsed.
POSSIBLE CAUSE	<ul style="list-style-type: none"> • Weak battery • SAS control module malfunction • SAS control module connectors are poorly connected • Instrument cluster malfunction • Instrument cluster connector is poorly connected • Open circuit in wiring harness between instrument cluster and SAS control module

System Wiring Diagram



ac5wzw00001566

Diagnostic Procedure

STEP	INSPECTION		ACTION
1	INSPECT BATTERY <ul style="list-style-type: none">• Measure the voltage of battery.• Is the voltage 8 V or more?	Yes	Go to the next step.
		No	Battery is weak. Inspect charge/discharge system, then go to Step 8. (See BATTERY INSPECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See BATTERY INSPECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) (See BATTERY INSPECTION [SKYACTIV-D 2.2].)

STEP	INSPECTION	ACTION	
2	VERIFY THAT SAS CONTROL MODULE CONNECTOR IS CONNECTED Warning <ul style="list-style-type: none"> • Handling the air bag system components improperly can accidentally deploy the air bag modules and pre-tensioner seat belts, which may seriously injure you. Read the air bag system service warnings and cautions before handling the air bag system components. (See AIR BAG SYSTEM SERVICE WARNINGS.) (See AIR BAG SYSTEM SERVICE CAUTIONS.) <ul style="list-style-type: none"> • 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 rear console. (See REAR CONSOLE REMOVAL/INSTALLATION.) • Are all SAS control module connectors securely connected? 	Yes	Go to the next step.
		No	Reconnect the connector properly, then go to Step 8.
3	INSPECT DTCS IN SAS CONTROL MODULE <ul style="list-style-type: none"> • 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].) • Inspect the DTC for the SAS control module on-board diagnostic system. (See DTC INSPECTION.) • Have DTCs been recorded in memory? 	Yes	Perform the applicable DTC inspection, then go to Step 8. (See DTC TABLE.)
		No	Go to the next step.
4	INSPECT DTCS IN INSTRUMENT CLUSTER <ul style="list-style-type: none"> • Inspect the DTC for the instrument cluster on-board diagnostic system. (See DTC INSPECTION [INSTRUMENT CLUSTER].) • Have DTCs been recorded in memory? 	Yes	Perform the applicable DTC inspection, then go to Step 8. (See DTC TABLE [INSTRUMENT CLUSTER].)
		No	Go to the next step.
5	VERIFY WHERE MALFUNCTION IS IN WARNING LIGHTS INDICATION CIRCUIT OR ELSEWHERE <ul style="list-style-type: none"> • Turn on all warning lights and indicator lights using the instrument cluster PID WL+IL of simulation function using the M-MDS. (See ACTIVE COMMAND MODES INSPECTION [INSTRUMENT CLUSTER].) • Do other warning and indicator lights illuminate? 	Yes	Go to the next step.
		No	Repair the instrument cluster. (See INSTRUMENT CLUSTER REMOVAL/INSTALLATION.) Then go to Step 8.

STEP	INSPECTION	ACTION	
6	INSPECT POWER SUPPLY CIRCUIT OF SAS CONTROL MODULE (TERMINAL 3C) 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 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 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 REMOVAL/INSTALLATION.) • Disconnect the driver and passenger-side curtain air bag module connectors. (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 pretensioner seat belt connectors. (See FRONT SEAT BELT REMOVAL/INSTALLATION.)	Yes	Go to the next step.
		No	Repair the wiring harnesses, then go to Step 8.

STEP	INSPECTION	ACTION	
	<ul style="list-style-type: none"> • Disconnect all SAS control module connectors. (See SAS CONTROL MODULE REMOVAL/INSTALLATION.) • 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 SAS control module at wiring harness-side connector terminal 3C. • Is the voltage 8 V—16 V? 		
7	<p>VERIFY THAT SAS CONTROL MODULE CONNECTOR TERMINAL 2C, 2F IS GROUND</p> <ul style="list-style-type: none"> • SAS control module connector disconnected. • 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].) • Inspect for continuity between the following terminals (wiring harness-side): <ul style="list-style-type: none"> — SAS control module terminal 2C—body ground — SAS control module terminal 2F—body ground <p>Note</p> <ul style="list-style-type: none"> • Inspect for continuity while shaking the wiring harness between the SAS control module and body ground. <ul style="list-style-type: none"> • Is there continuity? 	Yes	Replace the SAS control module, then go to the next step. (See SAS CONTROL MODULE REMOVAL/INSTALLATION.)
		No	Replace the wiring harnesses, then go to the next step.

STEP	INSPECTION	ACTION
8	CONFIRM THAT MALFUNCTION SYMPTOMS DO NOT RECUR AFTER REPAIR <ul style="list-style-type: none"> • 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). • Does the air bag system warning light illuminate for approx. 6 s and turn off? 	Yes Complete troubleshooting, then explain repairs to customer.
		No Recheck malfunction symptoms, then repeat from Step 1 if malfunction recurs.