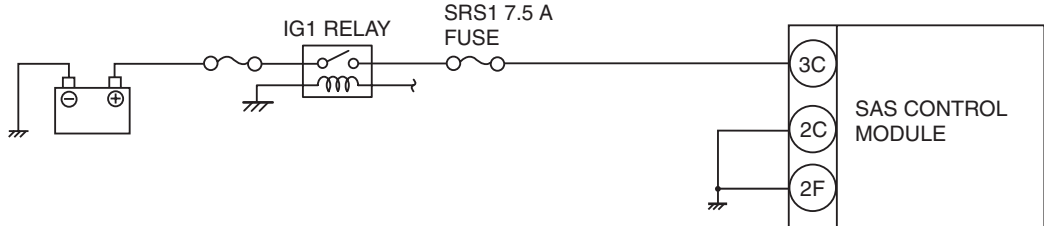
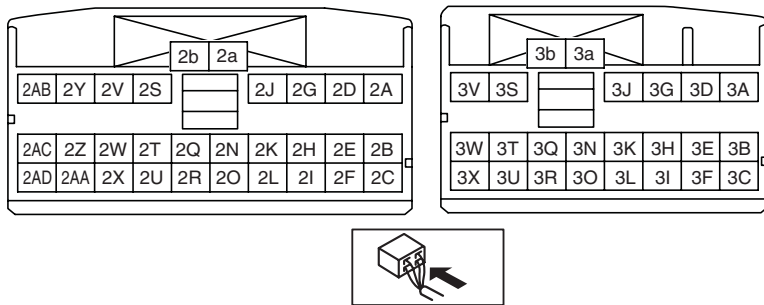


System malfunction location	<ul style="list-style-type: none"> U3003:16: SAS control module power supply voltage decreases (less than 8 V) U3003:17: SAS control module power supply voltage increases (18 V or more)
Detection condition	<p>Warning</p> <ul style="list-style-type: none"> Detection conditions 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. <p>SAS control module power supply voltage is other than 8–17.9 V</p>
Fail-safe	—
Possible cause	<ul style="list-style-type: none"> Battery malfunction SRS1 7.5 A fuse malfunction Open circuit or short to body ground in wiring harness between ignition switch and SAS control module Open circuit in the wiring harness between the SAS control module and body ground SAS control module malfunction



SAS CONTROL MODULE WIRING
HARNESS-SIDE CONNECTOR



Diagnostic Procedure

Step	Inspection		Action
1	BATTERY INSPECTION • Refer to the battery inspection and inspect the battery. (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].) • Is the battery normal?	Yes	Go to the next step.
		No	Replace or charge the battery. (See BATTERY REMOVAL/INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See BATTERY RECHARGING [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See BATTERY RECHARGING [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) (See BATTERY REMOVAL/INSTALLATION [SKYACTIV-D 2.2].) (See BATTERY RECHARGING [SKYACTIV-D 2.2].) Then go to Step 5.

Step	Inspection	Action	
2	FUSE INSPECTION <ul style="list-style-type: none"> • Switch the ignition to off. • Disconnect the negative battery cable and wait 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 SRS1 7.5 A fuse. • Is the fuse normal? 	Yes	Go to the next step.
		No	Replace the SRS1 7.5 A fuse. Then go to Step 5.

Step	Inspection	Action	
3	INSPECT WIRING HARNESS BETWEEN SAS CONTROL MODULE AND IG1 RELAY Warning <ul style="list-style-type: none">• 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.) <ul style="list-style-type: none">• Install the SRS1 7.5 A fuse.• 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.)• Remove the rear console. (See REAR CONSOLE REMOVAL/INSTALLATION.)• Disconnect the 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 of SAS control module terminal 3C (wiring harness-side). Note <ul style="list-style-type: none">• Measure the voltage while shaking the wiring harness between the SAS control module and IG1 relay. <ul style="list-style-type: none">• Is the voltage between 8–17.9 V?	Yes	Go to the next step.
		No	Replace the wiring harness between the SAS control module and IG1 relay. Then go to Step 5.

Step	Inspection	Action	
4	INSPECT SAS CONTROL MODULE CIRCUIT FOR OPEN CIRCUIT <ul style="list-style-type: none"> SAS control module connectors are disconnected. Switch the ignition to off. Disconnect the negative battery cable and wait 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 the wiring harness between SAS control module connector terminal 2C, 2F (wiring harness-side) and 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	Go to the next step.
		No	Replace the wiring harness for a possible open circuit, then go the next step.
5	PERFORM SAS CONTROL MODULE DTC INSPECTION <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). 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? 	Yes	Replace the SAS control module. (See SAS CONTROL MODULE REMOVAL/INSTALLATION.)
		No	DTC troubleshooting completed.