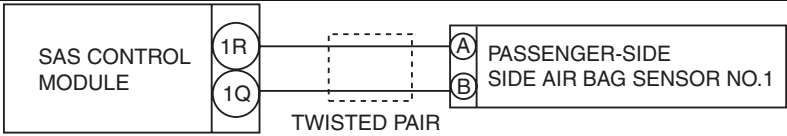
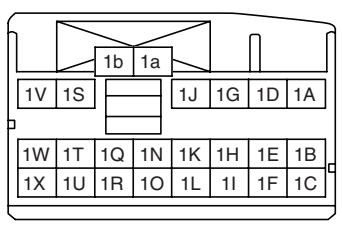

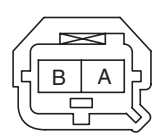
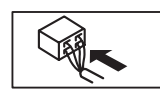


DTC B10FE:11/B10FE:13/B10FE:87/B10FE:96

id080200847200

| | |
|---|---|
| System malfunction location | <ul style="list-style-type: none"> B10FE:11: Passenger-side side air bag sensor No.1 circuit short to body ground or power supply B10FE:13: Passenger-side side air bag sensor No.1 circuit open circuit or resistance high B10FE:87: Signal reception error from passenger-side side air bag sensor No.1 B10FE:96: Passenger-side side air bag sensor No.1 internal malfunction |
| 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. <ul style="list-style-type: none"> Wiring harness between the passenger-side side air bag sensor No.1 and SAS control module has a malfunction Passenger-side side air bag sensor No.1 has a malfunction |
| Fail-safe | — |
| Possible cause | <ul style="list-style-type: none"> Passenger-side side air bag sensor No.1 connector malfunction Short circuit to power supply or body ground in the wiring harness between the passenger-side side air bag sensor No.1 and SAS control module Open circuit in the wiring harness between the passenger-side side air bag sensor No.1 and SAS control module Passenger-side side air bag sensor No.1 malfunction SAS control module malfunction |
| <div> <div>  <p>SAS CONTROL MODULE</p> <p>PASSENGER-SIDE SIDE AIR BAG SENSOR NO.1</p> <p>TWISTED PAIR</p> </div> <div> <p>SAS CONTROL MODULE WIRING HARNESS-SIDE CONNECTOR</p>   </div> <div> <p>PASSENGER-SIDE SIDE AIR BAG SENSOR NO.1 WIRING HARNESS-SIDE CONNECTOR</p>   </div> </div> | |

Diagnostic Procedure

| Step | Inspection | Action | |
|------|--|--------|---|
| 1 | INSPECT PASSENGER-SIDE SIDE AIR BAG SENSOR NO.1 CONNECTOR 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"> 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 B-pillar lower trim. (See B-PILLAR LOWER TRIM REMOVAL/INSTALLATION.) Disconnect the passenger-side side air bag sensor No.1 connector. (See SIDE AIR BAG SENSOR NO. 1 REMOVAL/INSTALLATION.) Inspect the passenger-side side air bag sensor No.1 connector. (Corrosion, damage, and disconnected pins) Is there any malfunction of the passenger-side side air bag sensor No.1 connector? | Yes | Replace the malfunctioning part, then go to Step 5. |
| | | No | Go to the next step. |

| Step | Inspection | Action | |
|------|--|--------|---|
| 2 | INSPECT PASSENGER-SIDE SIDE AIR BAG SENSOR NO.1 CIRCUIT FOR SHORT TO GROUND <ul style="list-style-type: none">• 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 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 pretensioner 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:<ul style="list-style-type: none">— SAS control module terminal 1R— SAS control module terminal 1Q <p>Note</p> <ul style="list-style-type: none">• Inspect for continuity while shaking the wiring harness between the SAS control module and passenger-side side air bag sensor No.1. <p>• Is there continuity?</p> | Yes | Replace the wiring harness for a possible short to ground, then go to Step 5. |
| | | No | Go to the next step. |

| Step | Inspection | Action | |
|------|---|--------|--|
| 3 | INSPECT PASSENGER-SIDE SIDE AIR BAG SENSOR NO.1 CIRCUIT FOR OPEN CIRCUIT <ul style="list-style-type: none"> • Passenger-side side air bag sensor No.1 and SAS control module connectors are disconnected. • Inspect for continuity between the following terminals (wiring harness-side): <ul style="list-style-type: none"> — Passenger-side side air bag sensor No.1 terminal A—SAS control module terminal 1R — Passenger-side side air bag sensor No.1 terminal B—SAS control module terminal 1Q <p>Note</p> <ul style="list-style-type: none"> • Inspect for continuity while shaking the wiring harness between the SAS control module and passenger-side side air bag sensor No.1. | Yes | Go to the next step. |
| | | No | Replace the wiring harness for a possible open circuit, then go to Step 5. |
| 4 | INSPECT PASSENGER-SIDE SIDE AIR BAG SENSOR NO.1 CIRCUIT FOR SHORT TO POWER SUPPLY <ul style="list-style-type: none"> • Passenger-side side air bag sensor No.1 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): <ul style="list-style-type: none"> — SAS control module terminal 1R — SAS control module terminal 1Q <p>Note</p> <ul style="list-style-type: none"> • Measure the voltage while shaking the wiring harness between the SAS control module and passenger-side side air bag sensor No.1. | Yes | Replace the passenger-side side air bag sensor No.1, then go to the next step. (See SIDE AIR BAG SENSOR NO. 1 REMOVAL/INSTALLATION.) |
| | | No | Replace the wiring harness for a possible short to power supply, then go to the next step. |
| | <ul style="list-style-type: none"> • Is there continuity? | | |
| | <ul style="list-style-type: none"> • Is the voltage 0V? | | |

| Step | Inspection | Action | |
|------|---|--------|--|
| 5 | PERFORM SAS CONTROL MODULE DTC INSPECTION <ul style="list-style-type: none">• Switch the ignition to off.• Disconnect the negative battery cable and wait 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? | Yes | Replace the SAS control module. (See SAS CONTROL MODULE REMOVAL/INSTALLATION.) |
| | | No | DTC troubleshooting completed. |