

2012 - Mazda6 - Restraints

DTC B00C2:93

System Malfunction Location

- Seat weight sensor (RH) communication error

Detection Condition

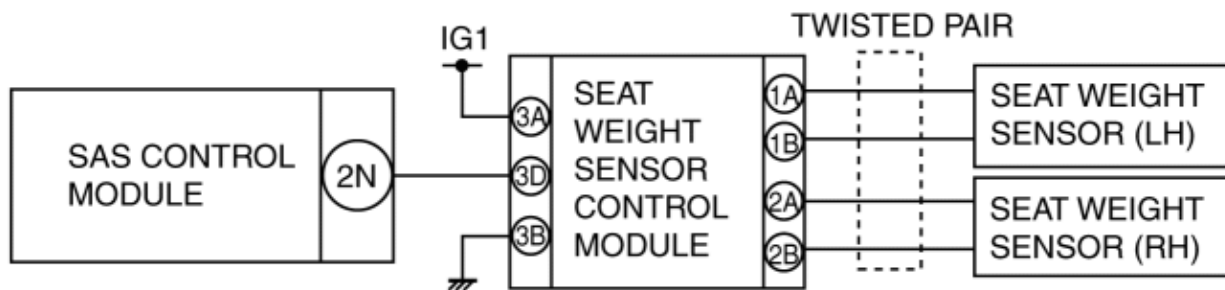
WARNING:

- 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.
- Seat weight sensor (RH) malfunction is detected

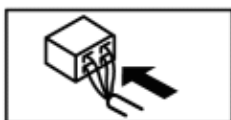
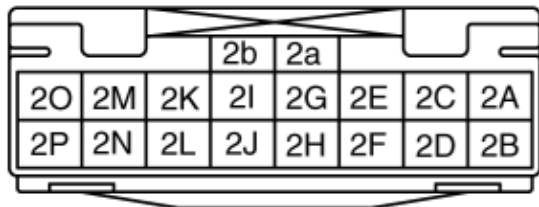
Possible Causes

- Seat weight sensor control module connector malfunction
- Seat weight sensor control module power supply malfunction
- Open or short circuit in the wiring harness between the SAS control module and seat weight sensor control module
- Open circuit in the wiring harness between the seat weight sensor control module and body ground
- Seat weight sensor (RH) malfunction
- SAS control module malfunction

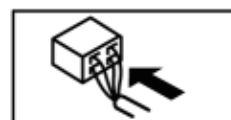
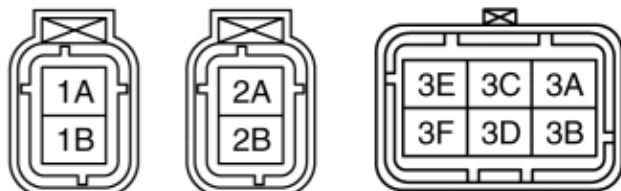
System Wiring Diagram



SAS CONTROL MODULE WIRING HARNESS-SIDE CONNECTOR



SEAT WEIGHT SENSOR CONTROL MODULE WIRING HARNESS-SIDE CONNECTOR



Diagnostic Procedure

Step	Inspection	Action
1	INSPECT SEAT WEIGHT SENSOR CONTROL MODULE 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 system components. (See AIR BAG SYSTEM SERVICE WARNINGS.) (See AIR BAG SYSTEM SERVICE CAUTIONS.) - Switch the ignition to off.	Yes Replace the malfunctioning parts. No Go to the next step.

	Disconnect the negative battery cable and wait for 1 min or more. • Disconnect seat weight sensor control module connector. • Inspect the seat weight sensor control module connector terminal for poor connection (such as damaged/pulled-out pins, and corrosion). • Is there any malfunction?		
2	INSPECT SEAT WEIGHT SENSOR CONTROL MODULE POWER SUPPLY CIRCUIT • Disconnect all seat weight sensor control module connectors. • Connect the negative battery cable. • Switch the ignition to ON. • Measure the voltage of seat weight sensor control module terminals 3A. NOTE: • Measure the voltage while shaking the wiring harness between the seat weight sensor control module and BCM. • Is the voltage measured?	Yes	Go to the next step.
		No	Repair the wiring harness between the seat weight sensor control module and BCM.
3	INSPECTION WIRING HARNESS • Disconnect the SAS control module connector. • Verify continuity in the following wiring harnesses: ▪ Between SAS	Yes	Go to the next step.
		No	If there is any malfunction in the wiring harnesses, repair or replace the applicable wiring harness.After replacement, reperform the DTC inspection and verify that no DTCs are displayed.

	control module terminal 2N and seat weight sensor control module terminal 3D - Between seat weight sensor control module terminal 3B and body ground NOTE: - Inspect for continuity while shaking the wiring harness between the SAS control module and seat weight sensor control module. - Is the continuity normal?		
4	INSPECT SEAT WEIGHT SENSOR POWER SUPPLY CIRCUIT - Connect all seat weight sensor control module connectors. - Connect the negative battery cable. - Switch the ignition to ON. - Measure the voltage of seat weight sensor control module terminals 2A. NOTE: - Inspect for continuity while shaking the wiring harness between the seat weight sensor (RH) and	Yes Replace the seat weight sensor control module, then go to the next step. (See SEAT WEIGHT SENSOR CONTROL MODULE REMOVAL/ INSTALLATION.)	
		No - Replace the passenger-side front seat slide adjuster. (See FRONT SEAT SLIDE ADJUSTER REMOVAL/ INSTALLATION.) - Perform the DTC inspection again. - If the same DTC is displayed, replace the seat weight sensor control module, then go to the next step. (See SEAT WEIGHT SENSOR CONTROL MODULE REMOVAL/ INSTALLATION.)	

	seat weight sensor control module.		
	Is the voltage 0 V?		
5	INSPECT PASSENGER SENSING SYSTEM - Switch the ignition to off. - Disconnect the negative battery cable and wait for 1 min or more. - Reconnect the disconnected connectors. - Connect the negative battery cable. - Switch the ignition to ON. - Clear DTCs using the M-MDS. (See CLEARING DTC.) - Verify DTCs using the M-MDS. (See DTC INSPECTION.) - Are DTCs B00C2:93 displayed?	Yes Replace the SAS control module. (See SAS CONTROL MODULE REMOVAL/ INSTALLATION.)	
		No DTC troubleshooting completed.	

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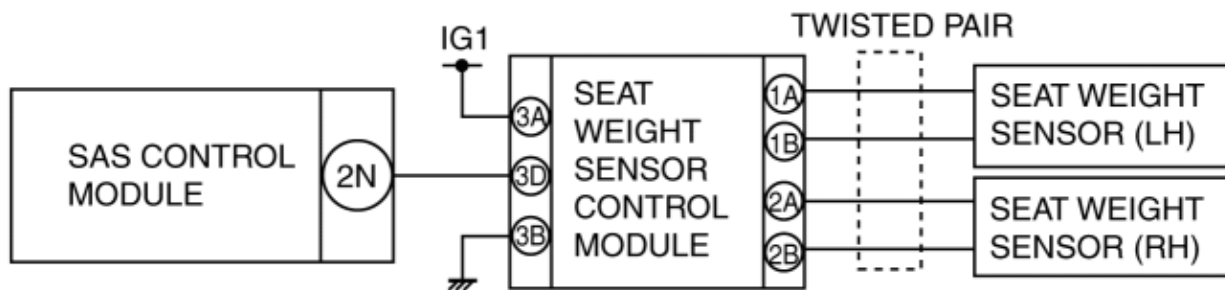
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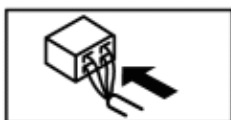
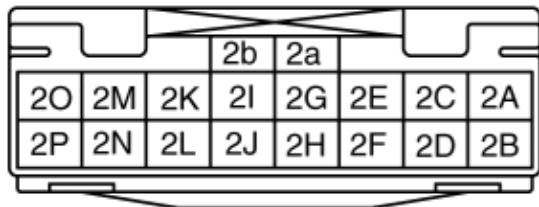
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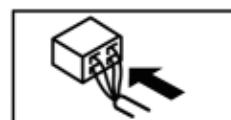
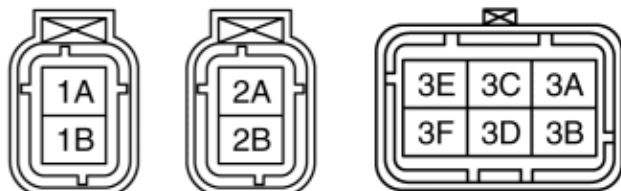
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