

- SODR

Visual Inspection and Diagnostic Pre-checks

Verify BJB fuse 113 (7.5A) is OK.

DIAGNOSIS AND TESTING > COMMUNICATIONS NETWORK > PINPOINT TESTS > PINPOINT TEST V : THE SIDE OBSTACLE DETECTION CONTROL MODULE RH (SOD-R) DOES NOT RESPOND TO THE DIAGNOSTIC SCAN TOOL > PINPOINT TEST V : THE SIDE OBSTACLE DETECTION CONTROL MODULE RH (SOD-R) DOES NOT RESPOND TO THE DIAGNOSTIC SCAN TOOL

V1 CHECK THE SODR (SIDE OBSTACLE DETECTION CONTROL MODULE RH) VOLTAGE SUPPLY CIRCUITS FOR AN OPEN

Ignition OFF.

Disconnect: SODR C4484 .

Ignition ON.

Measure:

Positive Lead	Measurement / Action	Negative Lead
C4484-5		Ground

Is the voltage greater than 11 volts?

Yes	GO to V2
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No	VERIFY the BJB fuse 113 (7.5A) is OK. If OK, REPAIR the circuit. If not OK, REFER to the OEM WIRING DIAGRAMS to identify the possible causes of the circuit short.
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V2 CHECK THE SODR (SIDE OBSTACLE DETECTION CONTROL MODULE RH) GROUND CIRCUIT FOR AN OPEN

Ignition OFF.

Measure:

Positive Lead	Measurement / Action	Negative Lead
C4484-1	Ω	Ground
C4484-8	Ω	Ground
C4484-9	Ω	Ground

Is the resistance less than 3 ohms?

Yes	GO to V3
No	REPAIR the circuit.

V3 CHECK THE MS-CAN (MEDIUM SPEED-CONTROLLER AREA NETWORK) CIRCUITS BETWEEN THE SODR (SIDE OBSTACLE DETECTION CONTROL MODULE RH) AND THE GWM (GATEWAY MODULE A) FOR AN OPEN

Disconnect: GWM C2431

Measure:

Positive Lead	Measurement / Action	Negative Lead
C4484-6	Ω	C2431-23
C4484-7	Ω	C2431-22

Are the resistances less than 3 ohms?

Yes	GO to V4
No	REPAIR the circuit in question.

V4 CHECK FOR CORRECT SODR (SIDE OBSTACLE DETECTION CONTROL MODULE RH) OPERATION

Ignition OFF.

Disconnect and inspect the SODR connector and related in-line connectors.

Repair:

corrosion (install new connector or terminals - clean module pins)

damaged or bent pins - install new terminals/pins

pushed-out pins - install new pins as necessary

Reconnect the SODR connector and related in-line connectors. Make sure they seat and latch correctly.

Operate the system and determine if the concern is still present.

Is the concern still present?

Yes	CHECK OASIS for any applicable Technical Service Bulletins (TSBs). If a TSB exists for this concern, DISCONTINUE this test and FOLLOW TSB instructions. If no Technical Service Bulletins (TSBs) address this concern, INSTALL a new SODR. REFER to: Side
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