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2003 FORD Mondeo Wagon OEM Service and Repair Workshop Manual

[Go to manual page](#)

- Gain access to the driver door side impact sensor and inspect C567 to make sure it is fully seated and locked. Seat and lock the connector as necessary.
- Gain access to the RCM (restraints control module) and inspect C310A and C310B to make sure they are fully seated and locked. Seat and lock the connector(s) as necessary.
- Repower the SRS (supplemental restraint system) . Do not prove out the SRS (supplemental restraint system) at this time.

REFER to: [Supplemental Restraint System \(SRS\) Repowering](#)(501-20B Supplemental Restraint System, General Procedures).

- Ignition ON.
- Using a diagnostic scan tool, carry out RCM (restraints control module) self-test.

Was DTC (diagnostic trouble code) B1414:13 retrieved on-demand during self-test?

Yes	GO to AJ9
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No	The fault is corrected. GO to AJ16
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AJ9 CHECK THE DRIVER DOOR SIDE IMPACT SENSOR CIRCUITS FOR AN OPEN (CIRCUIT OPEN)

- Ignition OFF.
- Depower the SRS (supplemental restraint system)
REFER to: [Supplemental Restraint System \(SRS\) Depowering](#)(501-20B Supplemental Restraint System, General Procedures).
- Disconnect RCM (restraints control module) C310A and C310B .
- Disconnect Driver Front Door Side Impact Sensor C567 .
- Measure:

Positive Lead	Measurement / Action	Negative Lead
C310B-43	Ω	C567-1
C310B-44	Ω	C567-2

Are the resistances less than 0.5 ohm?

No	REMOVE the fused jumper wire and GO to AJ14
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AJ11 CHECK THE PASSENGER REAR SIDE IMPACT SENSOR AND RCM (RESTRAINTS CONTROL MODULE) CONNECTIONS (CIRCUIT OPEN)

- Ignition OFF.
- Depower the SRS (supplemental restraint system) .
REFER to: [Supplemental Restraint System \(SRS\) Depowering](#)(501-20B Supplemental Restraint System, General Procedures).
- Gain access to the passenger B-pillar (with SuperCab) or C-pillar (with SuperCrew cab) side impact sensor and inspect C3212 to be fully seated and locked. Seat and lock the connector as necessary.
- Gain access to the RCM (restraints control module) and inspect C310A and C310B to be fully seated and locked. Seat and lock the connector(s) as necessary.
- Repower the SRS (supplemental restraint system) . Do not prove out the SRS (supplemental restraint system) at this time.
REFER to: [Supplemental Restraint System \(SRS\) Repowering](#)(501-20B Supplemental Restraint System, General Procedures).
- Ignition ON.
- Using a diagnostic scan tool, carry out RCM (restraints control module) self-test.

Was DTC (diagnostic trouble code) B1419:13 retrieved on-demand during self-test?

Yes	GO to AJ12
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No	The fault is corrected. GO to AJ16
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AJ12 CHECK THE PASSENGER REAR SIDE IMPACT SENSOR CIRCUITS FOR AN OPEN (CIRCUIT OPEN)

- Ignition OFF.
- Depower the SRS (supplemental restraint system) .
REFER to: [Supplemental Restraint System \(SRS\) Depowering](#)(501-20B Supplemental Restraint System, General Procedures).
- Disconnect RCM (restraints control module) C310A and C310B .
- Disconnect Passenger B-Pillar Side Impact Sensor C3212 (with SuperCab).
- Disconnect Passenger C-Pillar Side Impact Sensor C3212 (with SuperCrew cab).
- Measure:

REFER to: [Supplemental Restraint System \(SRS\) Repowering](#)(501-20B Supplemental Restraint System, General Procedures).

- Ignition ON.
- Using a diagnostic scan tool, carry out RCM (restraints control module) self-test.

Did the DTC (diagnostic trouble code) change from B1419:13 to B1414:11?

Yes	REMOVE the fused jumper wire. INSTALL a new passenger B-pillar side impact sensor. REFER to: B-Pillar Side Impact Sensor - SuperCab (501-20B Supplemental Restraint System, Removal and Installation). GO to AJ16 INSTALL a new passenger C-pillar side impact sensor. REFER to: C-Pillar Side Impact Sensor - SuperCrew (501-20B Supplemental Restraint System, Removal and Installation). GO to AJ16
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No	REMOVE the fused jumper wire and GO to AJ14
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AJ14 CONFIRM THE RCM (RESTRAINTS CONTROL MODULE) FAULT

NOTE

Make sure all SRS (supplemental restraint system) components and the RCM (restraints control module) electrical connectors are connected before carrying out the self-test. If not, Diagnostic Trouble Codes (DTCs) will be recorded.

- Ignition OFF.
- Depower the SRS (supplemental restraint system) .
REFER to: [Supplemental Restraint System \(SRS\) Depowering](#)(501-20B Supplemental Restraint System, General Procedures).
- Prior to reconnecting any previously disconnected SRS (supplemental restraint system) component:
 - inspect connector(s) (including any inline connectors) for pushed-out, loose or spread terminals and loose or frayed wire connections at terminals.
 - inspect wiring harness for any damage, pinched, cut or pierced wires.
 - inspect RCM (restraints control module) C310A and C310B Connector Position Assurance (CPA) lever/lock for correct operation.
 - repair any concerns found.

- wiring harness for any damage, pinched, cut or pierced wires.
- RCM (restraints control module) C310A and C310B Connector Position Assurance (CPA) lever/lock for correct operation.
- repair any concerns found.

Refer to Wiring Diagrams Cell 5 for schematic and connector information.

- Connect Driver Front Door Side Impact Sensor C567 .
- Connect Passenger B-Pillar Side Impact Sensor C3212 (with SuperCab).
- Connect Passenger C-Pillar Side Impact Sensor C3212 (with SuperCrew cab).
- Connect RCM (restraints control module) C310A and C310B .
- Repower the SRS (supplemental restraint system) . Do not prove out the SRS (supplemental restraint system) at this time.

REFER to: [Supplemental Restraint System \(SRS\) Repowering](#)(501-20B Supplemental Restraint System, General Procedures).

- Ignition ON.
- Using a diagnostic scan tool, carry out RCM (restraints control module) self-test.

Were any Diagnostic Trouble Codes (DTCs) retrieved on-demand during self-test?

Yes	<p>The fault(s) cannot be cleared until corrected and the DTC (diagnostic trouble code) is no longer retrieved on-demand during self-test.</p> <p>For DTC (diagnostic trouble code) B1414:11 or B1419:11, GO to AJ2 For DTC (diagnostic trouble code) B1414:12 or B1419:12, GO to AJ6 For DTC (diagnostic trouble code) B1414:13, GO to AJ8 For DTC (diagnostic trouble code) B1419:13, GO to AJ11</p>
No	<p>The fault is not present and cannot be recreated at this time. Do not install any new SRS (supplemental restraint system) components at this time. Install SRS (supplemental restraint system) components only when directed to do so in the pinpoint test. GO to AJ16</p>

AJ16 CHECK FOR ADDITIONAL SRS (SUPPLEMENTAL RESTRAINT SYSTEM) DIAGNOSTIC TROUBLE CODES (DTCS)

- Ignition OFF.
- Connect **all** previously disconnected components and connectors.
- If previously directed to depower the SRS (supplemental restraint system) , repower the SRS (supplemental restraint system) . Do not prove out the SRS (supplemental restraint system) at this time.

DTC (diagnostic trouble code)	Description	Fault Trigger Condition
RCM (restraints control module) B1418:11	Passenger Side Restraints Sensor 1: Circuit Short To Ground	A fault is indicated when the RCM (restraints control module) senses a shorted passenger front door side impact sensor, a short to ground on the passenger front door side impact sensor feed circuit.
RCM (restraints control module) B1418:12	Passenger Side Restraints Sensor 1: Circuit Short To Battery	A fault is indicated when the RCM (restraints control module) senses a short to voltage on the passenger front door side impact sensor feed or return circuits.
RCM (restraints control module) B1418:13	Passenger Side Restraints Sensor 1: Circuit Open	A fault is indicated when the RCM (restraints control module) senses an open passenger front door side impact sensor circuit.

Possible Sources

- Wiring, terminals or connectors
- Passenger front door side impact sensor
- RCM (restraints control module)

Visual Inspection and Pre-checks

- Inspect for damaged wiring harness(es).

WARNING

Incorrect repair techniques or actions can cause an accidental Supplemental Restraint System (SRS) deployment. Never compromise or depart from these instructions. Failure to precisely follow all instructions could result in serious personal injury from an accidental deployment.

NOTICE

Use the correct probe adapter(s) when making measurements. Failure to use the correct probe adapter(s) may cause damage to the connector.

NOTE

Yes	<p>The fault(s) cannot be cleared until corrected and the Diagnostic Trouble Codes (DTCs) are no longer retrieved on-demand during self-test.</p> <p>For DTC (diagnostic trouble code) B1418:11 GO to AK2 For DTC (diagnostic trouble code) B1418:12 GO to AK4 For DTC (diagnostic trouble code) B1418:13 GO to AK5</p>
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No	<p>The fault is intermittent when present as a CMDTC (continuous memory diagnostic trouble code) only. GO to AK9</p>
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AK2 CHECK THE PASSENGER FRONT DOOR SIDE IMPACT SENSOR DTC (DIAGNOSTIC TROUBLE CODE) FOR A FAULT STATUS CHANGE (SHORT TO GROUND INDICATED)

Positive Lead	Measurement / Action	Negative Lead
C644-1	Ω	Ground

- Measure:

Positive Lead	Measurement / Action	Negative Lead
C644-1	Ω	C644-2

Are the resistances greater than 10,000 ohms?

Yes	GO to AK8
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No	REPAIR the affected circuit(s). Refer to Wiring Diagrams Cell 5 for schematic and connector information. GO to AK10
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AK4 CHECK THE PASSENGER DOOR SIDE IMPACT SENSOR CIRCUITS FOR A SHORT TO VOLTAGE (CIRCUIT SHORT TO BATTERY INDICATED)

- Ignition OFF.
- Depower the SRS (supplemental restraint system) .
REFER to: [Supplemental Restraint System \(SRS\) Depowering](#)(501-20B Supplemental Restraint System, General Procedures).
- Disconnect RCM (restraints control module) C310A and C310B .
- Disconnect Passenger Door Side Impact Sensor C644 .
- Repower the SRS (supplemental restraint system) . Do not prove out the SRS (supplemental restraint system) at this time.
REFER to: [Supplemental Restraint System \(SRS\) Repowering](#)(501-20B Supplemental Restraint System, General Procedures).
- Ignition ON.
- Measure:

No	The fault is corrected. GO to AK10
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AK6 CHECK THE PASSENGER DOOR SIDE IMPACT SENSOR CIRCUITS FOR AN OPEN (CIRCUIT OPEN)

- Ignition OFF.
- Depower the SRS (supplemental restraint system)
REFER to: [Supplemental Restraint System \(SRS\) Depowering](#)(501-20B Supplemental Restraint System, General Procedures).
- Disconnect RCM (restraints control module) C310A and C310B .
- Disconnect Passenger Front Door Side Impact Sensor C644 .
- Measure:

Positive Lead	Measurement / Action	Negative Lead
C310B-46	Ω	C644-1
C310B-45	Ω	C644-2

Are the resistances less than 0.5 ohm?

Yes	GO to AK7
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No	REPAIR the affected circuit. Refer to Wiring Diagrams Cell 5for schematic and connector information. GO to AK10
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AK7 CHECK THE PASSENGER FRONT DOOR SIDE IMPACT SENSOR DTC (DIAGNOSTIC TROUBLE CODE) FOR A FAULT STATUS CHANGE (CIRCUIT OPEN)

NOTE

REFER to: [Supplemental Restraint System \(SRS\) Depowering](#)(501-20B Supplemental Restraint System, General Procedures).

- Prior to reconnecting any previously disconnected SRS (supplemental restraint system) component:
 - inspect connector(s) (including any inline connectors) for pushed-out, loose or spread terminals and loose or frayed wire connections at terminals.
 - inspect wiring harness for any damage, pinched, cut or pierced wires.
 - inspect RCM (restraints control module) C310A and C310B Connector Position Assurance (CPA) lever/lock for correct operation.
 - repair any concerns found.

Refer to Wiring Diagrams Cell 5for schematic and connector information.

- Connect RCM (restraints control module) C310A and C310B .
- Connect Passenger Door Side Impact Sensor C644 (if previously disconnected).
- Repower the SRS (supplemental restraint system) . Do not prove out the SRS (supplemental restraint system) at this time.

REFER to: [Supplemental Restraint System \(SRS\) Repowering](#)(501-20B Supplemental Restraint System, General Procedures).

- Ignition ON.
- Using a diagnostic scan tool, carry out RCM (restraints control module) self-test.

Was the original DTC (diagnostic trouble code) retrieved on-demand during self-test?

Yes	<p>CHECK OASIS (Online Automotive Service Information System) for any applicable service articles: TSB (Technical Service Bulletin) , GSB (General Service Bulletin) , SSM (special service message) or FSA (Field Service Action) . If a service article exists for this concern, DISCONTINUE this test and FOLLOW the service article instructions. If no service articles address this concern, INSTALL a new RCM (restraints control module) .</p> <p>REFER to: Restraints Control Module (RCM) (501-20B Supplemental Restraint System, Removal and Installation).</p> <p>GO to AK10</p>
No	<p>In the process of diagnosing the fault, the fault condition has become intermittent. Do not install any new SRS (supplemental restraint system) components at this time. Install SRS (supplemental restraint system) components only when directed to do so in the pinpoint test. GO to AK9</p>

AK9 CHECK FOR AN INTERMITTENT FAULT

- Ignition OFF.
- Depower the SRS (supplemental restraint system) .