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2006 FORD Mondeo Wagon OEM Service and Repair Workshop Manual

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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.

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

- Ignition ON.

NOTE

When selecting Restraints from the Self Test menu, DTCs are retrieved from the RCM (restraints control module) and OCSM (occupant classification system module) .

Using a diagnostic scan tool, perform

Restraints

self-test.

Are any RCM (restraints control module) or OCSM (occupant classification system module) Diagnostic Trouble Codes (DTCs) retrieved on-demand during self-test?

Yes	Do not clear any Diagnostic Trouble Codes (DTCs) until all Diagnostic Trouble Codes (DTCs) have been resolved. DIAGNOSE and REPAIR the SRS (supplemental restraint system) Diagnostic Trouble Codes (DTCs). REFER to the DTC (diagnostic trouble code) Chart in this section.
No	The repair is complete. RETURN the vehicle to the customer.

PINPOINT TEST AL : B1415:11, B1415:12, B1415:13, B1418:11, B1418:12, B1418:13, SUPERCREW AND SUPERCAB

Refer to Wiring Diagrams Cell 46for schematic and connector information.

Normal Operation and Fault Conditions REFER to: [Airbag and Seatbelt Pretensioner Supplemental Restraint System \(SRS\) - System Operation and Component Description](#) (501-20B Supplemental Restraint System, Description and Operation).

The RCM (restraints control module)

monitors the passenger front door side impact sensor and driver B-pillar (with SuperCab) or C-pillar (with SuperCrew cab) side impact sensors and circuits for the following faults:

- Open circuit
- Short to voltage

module) B1415:13	2: Circuit Open	SuperCrew cab) side impact sensor or an open on the driver B-pillar (with SuperCab) or C-pillar (with SuperCrew cab) side impact sensor circuits.
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 shorted driver B-pillar (with SuperCab) or C-pillar (with SuperCrew cab) side impact sensor, a short to ground on the passenger front door side impact sensor feed circuit or a short to ground on the driver B-pillar (with SuperCab) or C-pillar (with SuperCrew cab) 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 faulted driver B-pillar (with SuperCab) or C-pillar (with SuperCrew cab) side impact sensor or passenger front door side impact sensor, or a short to voltage on the feed or return circuit of the driver B-pillar (with SuperCab) or C-pillar (with SuperCrew cab) side impact sensor or passenger front door side impact sensor.
RCM (restraints control module) B1418:13	Passenger Side Restraints Sensor 1: Circuit Open	A fault is indicated when the RCM (restraints control module) senses a faulted passenger front door side impact sensor or an open on the passenger front door side impact sensor circuits.

Possible Sources

- Wiring, terminals or connectors
- Passenger front door side impact sensor
- Driver B-pillar side impact sensor(with SuperCab)
- Driver C-pillar side impact sensor(with SuperCrew cab)
- 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.

- WARNING**

Before beginning any service procedure in this section, refer to Safety Warnings in section 100-00 General Information. Failure to follow this instruction may result in serious personal injury.

- 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 Diagnostic Trouble Codes (DTCs) are no longer retrieved on-demand during self-test.</p> <p>For DTC (diagnostic trouble code) B1415:11 or B1418:11, GO to AL2 For DTC (diagnostic trouble code) B1415:12 or B1418:12, GO to AL6 For DTC (diagnostic trouble code) B1415:13, GO to AL8 For DTC (diagnostic trouble code) B1418:13, GO to AL11</p>
No	<p>The fault is intermittent when present as a CMDTC (continuous memory diagnostic trouble code) only. GO to AL15</p>

AL2 CHECK THE DRIVER REAR SIDE IMPACT SENSOR DTC (DIAGNOSTIC TROUBLE CODE) FOR A FAULT STATUS CHANGE (SHORT TO GROUND INDICATED)

NOTE

This pinpoint test step attempts to change the fault reported by the RCM (restraints control module) by inducing a different fault condition. If the fault reported changes, this indicates the RCM (restraints control module) is functioning correctly and is not the source of the fault.

- Ignition OFF.
- Depower the SRS (supplemental restraint system) .
REFER to: [Supplemental Restraint System \(SRS\) Depowering](#)(501-20B Supplemental Restraint System, General Procedures).
- Disconnect Driver B-Pillar Side Impact Sensor C3210 (with SuperCab).
- Disconnect Driver C-Pillar Side Impact Sensor C3210 (with SuperCrew cab).
- 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).

Yes	<p>INSTALL a new passenger front door side impact sensor.</p> <p>REFER to: Front Door Side Impact Sensor (501-20B Supplemental Restraint System, Removal and Installation).</p> <p>GO to AL16</p>
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No	GO to AL4
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AL4 CHECK THE DRIVER REAR SIDE IMPACT SENSOR FEED CIRCUIT FOR A SHORT TO GROUND AND SHORT BETWEEN SENSOR CIRCUITS

- Ignition OFF.
- Depower the SRS (supplemental restraint system) .
REFER to: [Supplemental Restraint System \(SRS\) Depowering](#)(501-20B Supplemental Restraint System, General Procedures).
- Disconnect Driver B-Pillar Side Impact Sensor C3210 (with SuperCab).
- Disconnect Driver C-Pillar Side Impact Sensor C3210 (with SuperCrew cab).
- Disconnect RCM (restraints control module) C310A and C310B .
- Measure:

Positive Lead	Measurement / Action	Negative Lead
C3210-1	Ω	Ground

- Measure:

Positive Lead	Measurement / Action	Negative Lead
C3210-1	Ω	C3210-2

Are the resistances greater than 10,000 ohms?

Yes	GO to AL5
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REFER to: [Supplemental Restraint System \(SRS\) Depowering](#)(501-20B Supplemental Restraint System, General Procedures).

- Disconnect RCM (restraints control module) C310A and C310B .
- Disconnect Driver B-Pillar Side Impact Sensor C3210 (with SuperCab).
- Disconnect Driver C-Pillar Side Impact Sensor C3210 (with SuperCrew cab).
- 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:

Positive Lead	Measurement / Action	Negative Lead
C3210-1	\overline{V}	Ground
C3210-2	\overline{V}	Ground

Is any voltage present?

Yes	REPAIR the circuits. Refer to Wiring Diagrams Cell 5for schematic and connector information. GO to AL16
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No	GO to AL7
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AL7 CHECK THE PASSENGER FRONT DOOR SIDE IMPACT SENSOR FEED CIRCUIT 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 Passenger Door Side Impact Sensor C644 .

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) B1415:13 retrieved on-demand during self-test?

Yes	GO to AL9
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No	The fault is corrected. GO to AL16
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AL9 CHECK THE DRIVER 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 Driver B-Pillar Side Impact Sensor C3210 (with SuperCab).
- Disconnect Driver C-Pillar Side Impact Sensor C3210 (with SuperCrew cab).
- Measure:

Positive Lead	Measurement / Action	Negative Lead
C310B-34	Ω	C3210-1
C310B-33	Ω	C3210-2

Are the resistances less than 0.5 ohm?

Yes	GO to AL10
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No	REPAIR the affected circuit. Refer to Wiring Diagrams Cell 5for schematic and connector information.
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No	REMOVE the fused jumper wire and GO to AL14
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AL11 CHECK THE PASSENGER FRONT DOOR 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 door side impact sensor and inspect C644 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) B1418:13 retrieved on-demand during self-test?

Yes	GO to AL12
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No	Fault corrected. GO to AL16
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AL12 CHECK THE PASSENGER FRONT 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 Door Side Impact Sensor C644 .
- 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 B1418:13 to B1418:11?

Yes	REMOVE the fused jumper wire and INSTALL a new passenger front door side impact sensor. REFER to: Front Door Side Impact Sensor (501-20B Supplemental Restraint System, Removal and Installation). GO to AL16
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No	REMOVE the fused jumper wire and GO to AL14
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AL14 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.
Refer to Wiring Diagrams Cell 5for schematic and connector information.
- Connect Passenger Door Side Impact Sensor C644 .
- Connect Driver Rear Side Impact Sensor C3210 .
- Connect RCM (restraints control module) C310A and C310B .

REFER to: [Restraints Control Module \(RCM\)](#)(501-20B Supplemental Restraint System, Removal and Installation).

- repair any concerns found.

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

- Connect Passenger Door Side Impact Sensor C644 .
- Connect Driver Rear Side Impact Sensor C3210 .
- 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.

Was DTC (diagnostic trouble code) B1415:11, B1415:12, B1415:13, B1418:11, B1418:12 or B1418:13 retrieved on-demand during self-test?

Yes	The fault(s) cannot be cleared until corrected and the DTC (diagnostic trouble code) is no longer retrieved on-demand during self-test. For DTC (diagnostic trouble code) B1415:11 or B1418:11, GO to AL2 For DTC (diagnostic trouble code) B1415:12 or B1418:12, GO to AL6 For DTC (diagnostic trouble code) B1415:13, GO to AL8 For DTC (diagnostic trouble code) B1418:13, GO to AL11
No	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 AL16

AL16 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.

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