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2018 FORD Mondeo Wagon OEM Service and Repair Workshop Manual

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BS6 CHECK THE RCM (RESTRAINTS CONTROL MODULE) POWER SUPPLY CIRCUIT FOR A SHORT TO GROUND

WARNING

Turn the ignition OFF and wait one minute to deplete the backup power supply. Failure to follow this instruction may result in serious personal injury or death in the event of an accidental deployment.

- Ignition OFF.
- Depower the SRS (supplemental restraint system) .
REFER to: [Supplemental Restraint System \(SRS\) Depowering](#)(501-20B Supplemental Restraint System, General Procedures).
- Disconnect BCM (body control module) C2280B .
- Disconnect RCM (restraints control module) C310A and C310B .
- Measure:

Positive Lead	Measurement / Action	Negative Lead
C310A-19	Ω	Ground

Is the resistance greater than 10,000 ohms?

Yes	GO to BS7
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No	REPAIR the circuit. Refer to Wiring Diagrams Cell 5for schematic and connector information. GO to BS14
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BS7 CHECK THE BCM (BODY CONTROL MODULE) DTC (DIAGNOSTIC TROUBLE CODE) FOR A FAULT STATUS CHANGE FROM SHORT TO GROUND

- Connect BCM (body control module) C2280B .
- Repower the SRS (supplemental restraint system) . Do not prove out the SRS (supplemental restraint system) at this time.

Yes	REPAIR the circuit. Refer to Wiring Diagrams Cell 5for schematic and connector information. GO to BS14
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No	GO to BS9
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BS9 CHECK THE BCM (BODY CONTROL MODULE) DTC (DIAGNOSTIC TROUBLE CODE) FOR A FAULT STATUS CHANGE FROM SHORT TO VOLTAGE

- Ignition OFF.
- Depower the SRS (supplemental restraint system) .
REFER to: [Supplemental Restraint System \(SRS\) Depowering](#)(501-20B Supplemental Restraint System, General Procedures).
- Connect BCM (body control module) C2280B .
- 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, perform BCM (body control module) self-test.

Was DTC (diagnostic trouble code) B1123:12 retrieved during self-test?

Yes	GO to BS10
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No	GO to BS11
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BS10 CONFIRM THE BCM (BODY CONTROL MODULE) FAULT

NOTE

Make sure all BCM (body control module) , OCSM (occupant classification system module) and RCM (restraints control module) electrical connectors are connected before carrying out the self-test. If not, Diagnostic Trouble Codes (DTCs) will be recorded and modules will be unresponsive.

- Ignition OFF.

NOTE

Make sure all BCM (body control module) , OCSM (occupant classification system module) and RCM (restraints control module) electrical connectors are connected before carrying out the self-test. If not, Diagnostic Trouble Codes (DTCs) will be recorded and modules will be unresponsive.

- 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.
 - repair any concerns found.
Refer to Wiring Diagrams Cell 5for schematic and connector information.
- Connect RCM (restraints control module) C310A and C310B (if previously disconnected).
- Connect BCM (body control module) C2280E (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, perform BCM (body control module) self-test.

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

Yes

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) .

REFER to: [Restraints Control Module \(RCM\)](#)
(501-20B Supplemental Restraint System, Removal and Installation).
GO to [BS14](#)

No

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. SRS (supplemental

No	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. SRS (supplemental restraint system) components should only be installed when directed to do so in the pinpoint test. GO to BS13
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BS13 CHECK FOR AN INTERMITTENT FAULT

- Ignition OFF.
- For DTC (diagnostic trouble code) B00A0:11 or B00A0:12, disconnect OCSM (occupant classification system module) C3285.
- Depower the SRS (supplemental restraint system) .
REFER to: [Supplemental Restraint System \(SRS\) Depowering](#)(501-20B Supplemental Restraint System, General Procedures).
- Disconnect BCM (body control module) C2280B and C2280E .
- For DTC (diagnostic trouble code) B1123:11 or B1123:12, disconnect RCM (restraints control module) C310A and C310B
 - inspect connector(s) (including any inline connectors) for loose or spread terminals and loose or frayed wire connections at terminals.
 - inspect wiring harness for any damage, pinched, cut or pierced wires.
 - repair any concerns found.

Refer to Wiring Diagrams Cell 5for schematic and connector information.
- For DTC (diagnostic trouble code) B00A0:11 or B00A0:12, connect OCSM (occupant classification system module) C3285.
- For DTC (diagnostic trouble code) B1123:11 or B1123:12, connect RCM (restraints control module) C310A and C310B
- Connect BCM (body control module) C2280B and C2280E .
- 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, perform BCM (body control module) self-test to retrieve Diagnostic Trouble Codes (DTCs).

Was DTC (diagnostic trouble code) B00A0:11, B00A0:12, B1123:11 or B1123:12 retrieved during self-test?

Yes	The fault condition is now present. This fault cannot be cleared until it is corrected and the DTC (diagnostic trouble code) is no longer retrieved during the self-test.
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No

The repair is complete. RETURN the vehicle to the customer.

PINPOINT TEST BT : IPC (INSTRUMENT PANEL CLUSTER) SRS (SUPPLEMENTAL RESTRAINT SYSTEM) INDICATOR FAULTS

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

Normal Operation and Fault Conditions If the RCM (restraints control module) detects a fault with the SRS (supplemental restraint system) it sends a message to the IPC (instrument panel cluster) to illuminate the Airbag Warning indicator. If the IPC (instrument panel cluster) detects a fault with the Airbag Warning indicator, it will enable a secondary warning chime. For more information, REFER to: [Instrument Panel Cluster \(IPC\) - System Operation and Component Description](#) (413-01 Instrumentation, Message Center and Warning Chimes, Description and Operation).

Possible Sources

- Wiring, terminals or connectors
- IPC (instrument panel cluster)
- RCM (restraints control module)
- Other SRS (supplemental restraint system) components

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

Most faults are due to connector and/or wiring concerns. Carry out a thorough inspection and verification before proceeding with the pinpoint test.

- 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 a network test.

Does the RCM (restraints control module) and IPC (instrument panel cluster) pass the network test?

Yes	GO to BT2
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No	REFER to: Controller Area Network (CAN) Module Communications Network (418-00A Controller Area Network (CAN) Module Communications Network, Diagnosis and Testing).
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BT2 RETRIEVE DIAGNOSTIC TROUBLE CODES (DTCs)

- Ignition ON.
- Using a diagnostic scan tool, perform RCM (restraints control module) and IPC (instrument panel cluster) self-tests.

Were any Diagnostic Trouble Codes (DTCs) retrieved during RCM (restraints control module) or IPC (instrument panel cluster) self-test?

Yes	For RCM (restraints control module) Diagnostic Trouble Codes (DTCs) REFER to the DTC (diagnostic trouble code) Chart in this section. For IPC (instrument panel cluster) Diagnostic Trouble Codes (DTCs), REFER to: Instrumentation, Message Center and Warning Chimes (413-01 Instrumentation, Message Center and Warning Chimes, Diagnosis and Testing).
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No	REFER to: Instrumentation, Message Center and Warning Chimes (413-01 Instrumentation, Message Center and Warning Chimes, Diagnosis and Testing).
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Clockspring Adjustment

Sample

NOTE

Always refer to the appropriate workshop manual procedures prior to carrying out vehicle repairs affecting the SRS (supplemental restraint system) and seatbelt system.

NOTE

The SRS (supplemental restraint system) must be fully operational and free of faults before releasing the vehicle to the customer.

1. NOTE

Refer to the correct removal and installation procedure for all SRS (supplemental restraint system) components being installed.

When any deployable device or combination of devices have deployed and/or the RCM (restraints control module) has DTC (diagnostic trouble code) B1193:00 (event threshold exceeded) in memory, the repair of the vehicle SRS (supplemental restraint system) is to include the removal of all deployed devices and the installation of new deployable devices, the removal of all impact sensors and installation of new impact sensors and the removal and installation of a new RCM (restraints control module). Diagnostic Trouble Codes (DTCs) must be cleared from all required modules after repairs are carried out.

2. NOTE

After installation of new OCS (occupant classification system) components, use a diagnostic scan tool to carry out the OCS (occupant classification system) Reset procedure as instructed in the workshop manual.

When a vehicle has been involved in a collision and the OCSM (occupant classification system module) has DTC (diagnostic trouble code) B1193:00 stored in memory, inspect the OCS (occupant classification system) for damage and repair as necessary. If installation of an OCS (occupant classification system) component is required, an OCS (occupant classification system) service kit must be installed.

3. When any damage to the impact sensor mounting points or mounting hardware has occurred, repair or install new mounting points and mounting hardware as needed.
4. When the driver airbag has deployed, install a new steering wheel and clockspring.

5. NOTICE

11. This vehicle is equipped with a fuel pump shut-off feature. During a crash event, it's possible that the fuel pump could be shut off. For additional information, refer to Fuel Pump Shut-off Feature in the Description and Operation portion of the appropriate 310-00 section.

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