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2017 FORD EcoSport OEM Service and Repair Workshop Manual

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S7 CHECK THE DRIVER SEAT POSITION SENSOR RETURN CIRCUIT FOR AN OPEN

- Measure:

Positive Lead	Measurement / Action	Negative Lead
C356-1	Ω	Ground

Is the resistance less than 3 ohms?

Yes	GO to S9
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No	REPAIR the circuit. Refer to Wiring Diagrams Cell 5 for schematic and connector information. GO to S11
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S8 CONFIRM THE DRIVER SEAT POSITION SENSOR 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 wire harness for any damaged, 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.

- 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 5 for schematic and connector information.

- Connect RCM (restraints control module) C310A and C310B (if previously disconnected).
 - Connect Driver Side Airbag (Inline) C3051 (if previously disconnected).
 - Connect Driver Seat Position Sensor C356 .
 - 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 RCM (restraints control module) self-test.

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

<p>Yes</p>	<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 S11</p>
<p>No</p>	<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 S10</p>

S10 CHECK FOR AN INTERMITTENT 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 Seat Position Sensor C356.
 - Inspect connector(s) (including any inline connectors) for corrosion, loose or spread terminals and loose or frayed wire connections at terminals.

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 T : B00D5:11, B00D5:12, B00D5:13

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 PAD (passenger airbag deactivation)

indicator is part of the overhead console and cannot be serviced separately.

The RCM (restraints control module)

briefly activates each LED (light emitting diode)

in the PAD (passenger airbag deactivation)

indicator to prove-out and verify correct functional operation of the PAD (passenger airbag deactivation)

indicator to the occupants.

The RCM (restraints control module)

monitors the PAD (passenger airbag deactivation)

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.

NOTE

Only disconnect or reconnect SRS (supplemental restraint system) components when instructed to do so within a pinpoint test step. Failure to follow this instruction may result in incorrect diagnosis of the SRS (supplemental restraint system) .

NOTE

Always make sure the correct SRS (supplemental restraint system) component is being installed. Parts released for other vehicles may not be compatible even if they appear physically similar. Check the part number listed in the Ford parts catalog to make sure the correct component is being installed. If an incorrect SRS (supplemental restraint system) component is installed, Diagnostic Trouble Codes (DTCs) may set.

NOTE

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

T1 RETRIEVE RCM (RESTRAINTS CONTROL MODULE) DIAGNOSTIC TROUBLE CODES (DTCs)

- **WARNING**

T3 CHECK THE RCM (RESTRAINTS CONTROL MODULE) FOR LOW RESISTANCE

- 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.
- Measure:

Positive Lead	Measurement / Action	Negative Lead
C930-8	Ω	Ground

Is the resistance greater than 10,000 ohms?

Yes	GO to T10
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No	REPAIR the circuit. Refer to Wiring Diagrams Cell 5for schematic and connector information. GO to T12
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T4 CHECK THE PAD (PASSENGER AIRBAG DEACTIVATION) INDICATOR 'OFF' LED (LIGHT EMITTING DIODE) CIRCUIT FOR AN 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: PAD (passenger airbag deactivation) Indicator C930.
- Measure:

Positive Lead	Measurement / Action	Negative Lead
C930-8	Ω	C310A-20

Positive Lead	Measurement / Action	Negative Lead
C2280E-6	Ω	C930-7


Is the resistance less than 3 ohms?

Yes	<p>Using a diagnostic scan tool, perform BCM (body control module) self-test. For any BCM (body control module) Diagnostic Trouble Codes (DTCs), REFER to the BCM (body control module) DTC (diagnostic trouble code) chart in this section. If no BCM (body control module) Diagnostic Trouble Codes (DTCs) are retrieved, replace the BCM (body control module) .</p> <p>REFER to: Body Control Module (BCM) (419-10 Multifunction Electronic Modules, Removal and Installation).</p>
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No	<p>REPAIR the circuit.</p> <p>Refer to Wiring Diagrams Cell 5 for schematic and connector information.</p>
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T7 CHECK THE PAD (PASSENGER AIRBAG DEACTIVATION) INDICATOR

- Ignition OFF.
- Connect: PAD (passenger airbag deactivation) Indicator C930.
- Connect a fused jumper wire:

Positive Lead	Measurement / Action	Negative Lead
C310A-20		Ground

- Ignition ON.
- Monitor the PAD (passenger airbag deactivation) indicator.

Does the PAD (passenger airbag deactivation) indicator 'OFF' LED (light emitting diode) illuminate?

Yes	REMOVE the fused jumper wire and GO to T10
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T9 CHECK THE RCM (RESTRAINTS CONTROL MODULE)

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 reported fault 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).
- 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, perform RCM (restraints control module) self-test.
- **DIAGNOSTIC TIP:**

When viewing Diagnostic Trouble Codes (DTCs) with the PAD (passenger airbag deactivation) indicator disconnected, open circuit faults are normally retrieved for the 'ON' LED (light emitting diode) and the 'OFF' LED (light emitting diode) control circuits.

Did the on-demand DTC (diagnostic trouble code) change from B00D5:12 to B00D5:13?

Yes	INSTALL a new PAD (passenger airbag deactivation) indicator. REFER to: Overhead Console (501-12 Instrument Panel and Console, Removal and Installation). GO to T12
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No	GO to T10
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T10 CONFIRM THE RCM (RESTRAINTS CONTROL MODULE) FAULT

NOTE

restraint system) components only when directed to do so in the pinpoint test. GO to [T11](#)

T11 CHECK FOR AN INTERMITTENT FAULT

- Ignition OFF.
- Connect: PAD (passenger airbag deactivation) Indicator C930 (if previously disconnected).
 - Inspect connector(s) (including any inline connectors) for corrosion, loose or spread terminals and loose or frayed wire connections at terminals.
 - Inspect wire 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 5 for schematic and connector information.
- Connect **all** previously disconnected components and connectors.
- Ignition ON.
- Using a diagnostic scan tool, perform RCM (restraints control module) self-test.

Was DTC (diagnostic trouble code) B00D5:11, B00D5:12 or B00D5:13 retrieved on-demand during self-test?

Yes	This fault cannot be cleared until it is corrected and the DTC (diagnostic trouble code) is no longer retrieved on-demand during self-test. For DTC (diagnostic trouble code) B00D5:11, GO to T2 For DTC (diagnostic trouble code) B00D5:12, GO to T8 For DTC (diagnostic trouble code) B00D5:13, GO to T4
No	CHECK for causes of intermittent open, short to ground or short to voltage on the PAD (passenger airbag deactivation) indicator circuit. ATTEMPT to recreate the hard fault by flexing the wire harness and cycling the ignition frequently. ACTIVATE other systems in the same wire harness. 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 T12

T12 CHECK FOR ADDITIONAL SRS (SUPPLEMENTAL RESTRAINT SYSTEM) DIAGNOSTIC TROUBLE CODES (DTCS)

code)		
RCM (restraints control module) B1193:00	Crash Event Storage Full and Locked: No Sub Type Information	This DTC (diagnostic trouble code) sets due to the vehicle being in a crash.

Possible Sources

- A crash has occurred

U1 CHECK FOR DIAGNOSTIC TROUBLE CODES (DTCS)

- Using a diagnostic scan tool, clear all Diagnostic Trouble Codes (DTCs).
- Using a diagnostic scan tool, perform the RCM (restraints control module) self-test.

Did the DTC (diagnostic trouble code) return?

Yes	REFER to: Inspection and Repair after a Supplemental Restraint System (SRS) Deployment(501-20B Supplemental Restraint System, General Procedures) . GO to U2
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No	The system is operating correctly at this time. GO to U2
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U2 CHECK FOR ADDITIONAL SRS (SUPPLEMENTAL RESTRAINT SYSTEM) DIAGNOSTIC TROUBLE CODES (DTCS)

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.
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