

# Your Ultimate Source for OEM Repair Manuals

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## 2014 FORD Ecosport OEM Service and Repair Workshop Manual

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- Attempt to recreate the fault by wiggling connectors (including any inline connectors) and flexing the wire harness frequently.
- Using a diagnostic scan tool, perform RCM (restraints control module) self-test.

**Was DTC (diagnostic trouble code) B007F:12 retrieved on-demand during self-test?**

<b>Yes</b>	DEPOWER the SRS (supplemental restraint system) and REPAIR as necessary. Refer to Wiring Diagrams Cell 5 for schematic and connector information. GO to <a href="#">O17</a>
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<b>No</b>	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 <a href="#">O16</a>
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**O16 CHECK THE HARNESS AND CONNECTORS**

- Ignition OFF.
- Depower the SRS (supplemental restraint system) .  
REFER to: [Supplemental Restraint System \(SRS\) Depowering](#) (501-20B Supplemental Restraint System, General Procedures).
- Connect Passenger Seatbelt Retractor Pretensioner C303A (Regular cab).
- Connect Passenger Seatbelt Retractor Pretensioner C3637A (SuperCrew cab).
- Connect Passenger Seatbelt Retractor Pretensioner C827A (SuperCab).
- Inspect:
  - 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.

**Were any concerns found?**

<b>Yes</b>	REPAIR as necessary. Refer to Wiring Diagrams Cell 5 for schematic and connector information. GO to <a href="#">O17</a>
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<b>No</b>	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
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## 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.
- 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).

- 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.

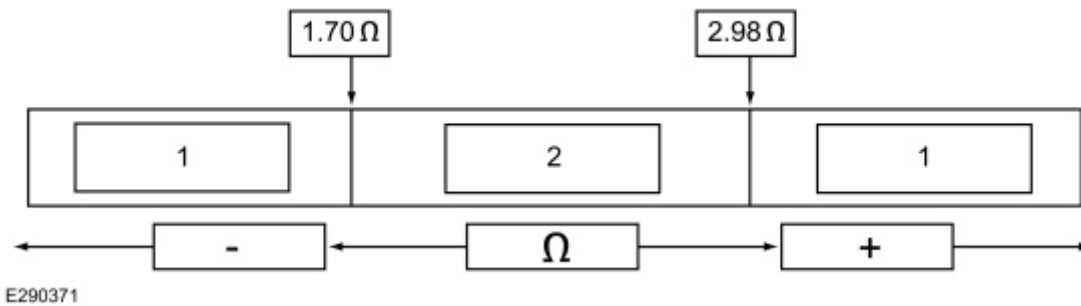
**Are any RCM (restraints control module) or OCSM (occupant classification system module)**

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

<b>Yes</b>	Do not clear any Diagnostic Trouble Codes (DTCs) until <b>all</b> 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.
<b>No</b>	The repair is complete. RETURN the vehicle to the customer.

## PINPOINT TEST P : B0080:11, B0080:12, B0080:13, B0080:1A

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



- 1 - May set DTC (diagnostic trouble code)
- 2 - Desired range

#### DTC Fault Trigger Conditions

DTC (diagnostic trouble code)	Description	Fault Trigger Condition
RCM (restraints control module) B0080:11	Driver Seatbelt Load Limiter Deployment Control: Circuit Short To Ground	A fault is indicated when the RCM (restraints control module) senses a short to ground on either driver seatbelt load limiter circuit for more than 6 seconds.
RCM (restraints control module) B0080:12	Driver Seatbelt Load Limiter Deployment Control: Circuit Short To Battery	A fault is indicated when the RCM (restraints control module) senses a short to voltage on either driver seatbelt load limiter circuit for more than 6 seconds.
RCM (restraints control module) B0080:13	Driver Seatbelt Load Limiter Deployment Control: Circuit Open	A fault is indicated when the RCM (restraints control module) measures more than the desired resistance between the driver seatbelt load limiter circuits for more than 6 seconds.
RCM (restraints control module) B0080:1A	Driver Seatbelt Load Limiter Deployment Control: Circuit Resistance Below Threshold	A fault is indicated when the RCM (restraints control module) measures less than the desired resistance between the driver seatbelt load limiter circuits for more than 6 seconds.

#### Possible Sources

- Wiring, terminals or connectors
- Driver seatbelt load limiter
- RCM (restraints control module)

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.

### P1 RETRIEVE RCM (RESTRAINTS CONTROL MODULE) DIAGNOSTIC TROUBLE CODES (DTCS)

#### 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.

**Was DTC (diagnostic trouble code) B0080:11, B0080:12, B0080:13 and B0080:1A 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) B0080:13 or B0080:1A, GO to [P2](#) For DTC (diagnostic trouble code) B0080:11, GO to [P8](#) For DTC (diagnostic trouble code) B0080:12, GO to [P10](#)

**No**

This is an intermittent fault when present as a CMDTC (continuous memory diagnostic trouble code) only.

For DTC (diagnostic trouble code) B0080:13 or B0080:1A, GO to [P13](#) For DTC (diagnostic trouble code) B0080:11, GO to [P14](#) For DTC (diagnostic trouble code) B0080:12, GO to [P15](#)

### P2 CHECK THE DRIVER SEATBELT LOAD LIMITER DEPLOYMENT CONTROL (DEPLOY\_25\_R) PID (PARAMETER IDENTIFICATION)

- Using the diagnostic scan tool,  
Access the RCM (restraints control module) and monitor the DEPLOY\_26\_R (Passenger Seatbelt Load Limiter Deployment Control) (mOhm) PID (parameter identification)
- Monitor and record the value of the PID (parameter identification) .

- Depower the SRS (supplemental restraint system) .  
REFER to: [Supplemental Restraint System \(SRS\) Depowering](#)(501-20B Supplemental Restraint System, General Procedures).
- Disconnect Driver Seatbelt Load Limiter C323B (Regular cab).
- Disconnect Driver Seatbelt Load Limiter C3636B (SuperCrew cab).
- Disconnect Driver Seatbelt Load Limiter C727B (SuperCab).
- 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.
- **DIAGNOSTIC TIP:**

When viewing Diagnostic Trouble Codes (DTCs) with the driver seatbelt load limiter disconnected, an open circuit fault is normally retrieved.

**Did the on-demand DTC (diagnostic trouble code) change from B0080:1A to B0080:13?**

<b>Yes</b>	GO to <a href="#">P11</a>
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<b>No</b>	GO to <a href="#">P5</a>
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#### **P5 CHECK FOR A SHORT BETWEEN THE DRIVER SEATBELT LOAD LIMITER CIRCUITS**

- 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 .
- With regular cab, measure:

Positive Lead	Measurement / Action	Negative Lead
C323B-1	$\Omega$	C323B-2

- With SuperCrew cab, measure:

C310B-8	$\Omega$	C323B-1
C310B-7	$\Omega$	C323B-2

- With SuperCrew cab, measure:

Positive Lead	Measurement / Action	Negative Lead
C310B-8	$\Omega$	C3636B-1
C310B-7	$\Omega$	C3636B-2

- With SuperCab, measure:

Positive Lead	Measurement / Action	Negative Lead
C310B-8	$\Omega$	C727B-1
C310B-7	$\Omega$	C727B-2

**Are the resistances less than 0.5 ohm?**

<b>Yes</b>	GO to <a href="#">P7</a>
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<b>No</b>	REPAIR the circuit(s). Refer to Wiring Diagrams Cell 5 for schematic and connector information. GO to <a href="#">P17</a>
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- Ignition ON.
- Using a diagnostic scan tool, carry out RCM (restraints control module) self-test.

• **DIAGNOSTIC TIP:**

When viewing Diagnostic Trouble Codes (DTCs) with the driver seatbelt load limiter circuits shorted together, a low resistance fault is normally retrieved.

**Did the on-demand DTC (diagnostic trouble code) change from B0080:13 to B0080:1A?**

<b>Yes</b>	REMOVE the fused jumper wire and GO to <a href="#">P11</a>
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<b>No</b>	REMOVE the fused jumper wire and GO to <a href="#">P12</a>
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**P8 CHECK THE DRIVER SEATBELT LOAD LIMITER DEPLOYMENT CONTROL 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 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).
- Disconnect Driver Seatbelt Load Limiter C323B (Regular Cab).
- Disconnect Driver Seatbelt Load Limiter C3636B (SuperCrew Cab).
- Disconnect Driver Seatbelt Load Limiter C727B (SuperCab).
- 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.

• **DIAGNOSTIC TIP:**

When viewing Diagnostic Trouble Codes (DTCs) with the driver seatbelt load limiter disconnected, an open circuit fault is normally retrieved.

**Did the on-demand DTC (diagnostic trouble code) change from B0080:11 to B0080:13?**



C727B-1	$\Omega$	Ground
C727B-2	$\Omega$	Ground

**Are the resistances greater than 10,000 ohms?**

<b>Yes</b>	GO to <a href="#">P12</a>
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<b>No</b>	REPAIR the circuit(s). Refer to Wiring Diagrams Cell 5 for schematic and connector information. GO to <a href="#">P17</a>
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## **P10 CHECK THE DRIVER SEATBELT LOAD LIMITER CIRCUITS FOR A 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).
- Disconnect Driver Seatbelt Load Limiter C323B (Regular Cab).
- Disconnect Driver Seatbelt Load Limiter C3636B (SuperCrew Cab).
- Disconnect Driver Seatbelt Load Limiter C727B (SuperCab).
- Disconnect 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.
- With regular cab, measure:

Positive Lead	Measurement / Action	Negative Lead
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No

GO to [P12](#)

## P11 CONFIRM THE DRIVER SEATBELT LOAD LIMITER 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) are 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 damaged, pinched, cut or pierced wires.
  - Inspect RCM (restraints control module) C310A and C310B Connector Position Assurance (CPA) lever/lock for correct operation.
  - Inspect Driver Seatbelt Load Limiter connector and make sure the Connector Position Assurance (CPA) tabs are not broken and the clip is not damaged.
  - Repair any concerns found.  
Refer to Wiring Diagrams Cell 5 for schematic and connector information.
- Connect Driver Seatbelt Load Limiter C323B (Regular Cab).
- Connect Driver Seatbelt Load Limiter C3636B (SuperCrew Cab).
- Connect Driver Seatbelt Load Limiter C727B (SuperCab).
- 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

INSTALL a new driver seatbelt retractor (includes load limiter).

REFER to: [Front Seatbelt Retractor and Pretensioner - Regular Cab](#)