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2013 FORD Ecosport OEM Service and Repair Workshop Manual

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- 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?

<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 P17</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.</p> <p>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</p>

P13 CHECK THE DRIVER SEATBELT LOAD LIMITER DEPLOYMENT CONTROL (DEPLOY_25_R) PID (PARAMETER IDENTIFICATION) FOR AN INTERMITTENT LOW RESISTANCE OR OPEN CIRCUIT FAULT

- Using the diagnostic scan tool,
Access the RCM (restraints control module) and monitor the DEPLOY_25_R (Driver Seatbelt Load Limiter Deployment Control) (mOhm) PID (parameter identification)
- While monitoring the PID (parameter identification) , attempt to recreate the fault by wiggling connectors (including any inline connectors) and flexing the wiring harness frequently.

Does the PID (parameter identification) value stay between 1.7 and 2.98 ohms?

<p>Yes</p>	<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 P16</p>
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REFER to: [Supplemental Restraint System \(SRS\) Repowering](#)(501-20B Supplemental Restraint System, General Procedures).

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

Was DTC (diagnostic trouble code) B0080:12 retrieved on-demand during self-test?

Yes	DEPOWER the SRS (supplemental restraint system) and REPAIR as necessary. Refer to Wiring Diagrams Cell 5for schematic and connector information. GO to P17
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 P16

P16 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).
- Disconnect Driver Seatbelt Load Limiter C323B (Regular Cab).
- Disconnect Driver Seatbelt Load Limiter C3636B (SuperCrew Cab).
- Disconnect Driver Seatbelt Load Limiter C727B (SuperCab).
- Inspect:
 - Inspect connector(s) (including any inline connectors) for corrosion, 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.
 - Inspect Driver Seatbelt Load Limiter connector and make sure the Connector Position Assurance (CPA) tabs are not broken and the clip is not damaged.

Were any concerns found?

Yes	REPAIR as necessary. Refer to Wiring Diagrams Cell 5for schematic and connector information.
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- 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?

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.

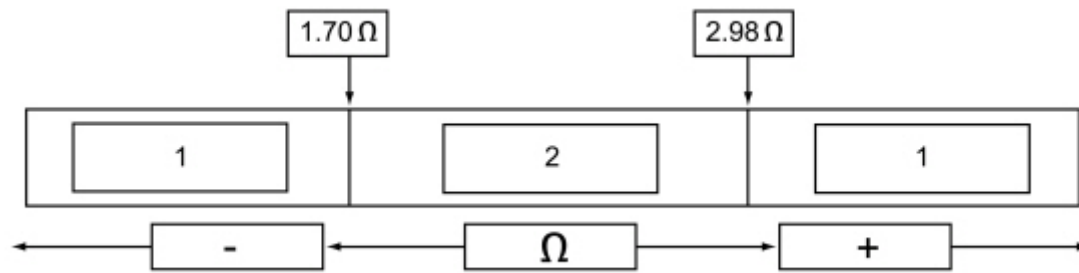
PINPOINT TEST Q : B0082:11, B0082:12, B0082:13, B0082:1A

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)

continuously monitors the passenger seatbelt load limiter circuits for the following faults:



E290371

- 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) B0082:11	Passenger 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 passenger seatbelt load limiter circuit for more than 6 seconds.
RCM (restraints control module) B0082:12	Passenger 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 passenger seatbelt load limiter circuit for more than 6 seconds.
RCM (restraints control module) B0082:13	Passenger 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 passenger seatbelt load limiter circuits for more than 6 seconds.
RCM (restraints control module) B0082:1A	Passenger 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 passenger seatbelt load limiter circuits for more than 6 seconds.

Possible Sources

- Wiring, terminals or connectors

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.

Q1 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) B0082:11, B0082:12, B0082:13 and B0082:1A retrieved on-demand during self-test?

Yes	<p>This fault cannot be cleared until it is corrected and the DTC (diagnostic trouble code) is no longer retrieved on-demand during self-test.</p> <p>For DTC (diagnostic trouble code) B0082:13 or B0082:1A, GO to Q2 For DTC (diagnostic trouble code) B0082:11, GO to Q8 For DTC (diagnostic trouble code) B0082:12, GO to Q10</p>
No	<p>This is an intermittent fault when present as a CMDTC (continuous memory diagnostic trouble code) only.</p> <p>For DTC (diagnostic trouble code) B0082:13 or B0082:1A, GO to Q13 For DTC (diagnostic trouble code) B0082:11, GO to Q14 For DTC (diagnostic trouble code) B0082:12, GO to Q15</p>

Q2 CHECK THE PASSENGER SEATBELT LOAD LIMITER DEPLOYMENT CONTROL (DEPLOY_26_R) PID (PARAMETER IDENTIFICATION)

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 Passenger Seatbelt Load Limiter C303B (Regular Cab).
- Disconnect Passenger Seatbelt Load Limiter C3637B (SuperCrew Cab).
- Disconnect Passenger Seatbelt Load Limiter C827B (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 passenger seatbelt load limiter disconnected, an open circuit fault is normally retrieved.

Did the on-demand DTC (diagnostic trouble code) change from B0082:1A to B0082:13?

Yes	GO to Q11
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No	GO to Q5
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Q5 CHECK FOR A SHORT BETWEEN THE PASSENGER 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
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- With regular cab, measure:

Positive Lead	Measurement / Action	Negative Lead
C310B-5	Ω	C303B-1
C310B-6	Ω	C303B-2

- With SuperCrew cab, measure:

Positive Lead	Measurement / Action	Negative Lead
C310B-5	Ω	C3637B-1
C310B-6	Ω	C3637B-2

- With SuperCab, measure:

Positive Lead	Measurement / Action	Negative Lead
C310B-5	Ω	C827B-1
C310B-6	Ω	C827B-2

Are the resistances less than 0.5 ohm?

Yes	GO to Q7
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- 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 passenger seatbelt load limiter circuits shorted together, a low resistance fault is normally retrieved.

Did the on-demand DTC (diagnostic trouble code) change from B0082:13 to B0082:1A?

Yes	REMOVE the fused jumper wire and GO to Q11
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No	REMOVE the fused jumper wire and GO to Q12
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Q8 CHECK THE PASSENGER 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 Passenger Seatbelt Load Limiter C303B (Regular Cab).
- Disconnect Passenger Seatbelt Load Limiter C3637B (SuperCrew Cab).
- Disconnect Passenger Seatbelt Load Limiter C827B (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.

C3637B-2	Ω	Ground
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- With SuperCab, measure:

Positive Lead	Measurement / Action	Negative Lead
C827B-1	Ω	Ground
C827B-2	Ω	Ground

Are the resistances greater than 10,000 ohms?

Yes	GO to Q12
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No	REPAIR the circuit(s). Refer to Wiring Diagrams Cell 5 for schematic and connector information. GO to Q17
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Q10 CHECK THE PASSENGER 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 Passenger Seatbelt Load Limiter C303B (Regular Cab).
- Disconnect Passenger Seatbelt Load Limiter C3637B (SuperCrew Cab).
- Disconnect Passenger Seatbelt Load Limiter C827B (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).