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2011 FORD EcoSport OEM Service and Repair Workshop Manual

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C2360-1	Ω	Ground
C2360-2	Ω	Ground

Are the resistances greater than 10,000 ohms?

Yes	GO to D12
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No	REPAIR the circuit(s). Refer to Wiring Diagrams Cell 5 for schematic and connector information. GO to D17
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D10 CHECK THE ADAPTIVE ENERGY ABSORPTION STEERING COLUMN 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 Adaptive Energy Absorption Steering Column C2360 .
- 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.
- Measure:

Positive Lead	Measurement / Action	Negative Lead
C2360-1	\bar{V}	Ground

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 adaptive energy absorption steering column. REFER to: Steering Column (211-04 Steering Column, Removal and Installation). GO to D17
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. Install SRS (supplemental restraint system) components only when directed to do so in the pinpoint test. For DTC (diagnostic trouble code) B0005:13 or B0005:1A, GO to D13 For DTC (diagnostic trouble code) B0005:11, GO to D14

D12 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) 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.
- Repair any concerns found.

Yes	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 D16
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No	<p>DEPOWER the SRS (supplemental restraint system) .</p> <p>REFER to: Supplemental Restraint System (SRS) Depowering (501-20B Supplemental Restraint System, General Procedures).</p> <p>REPAIR as necessary.</p> <p>Refer to Wiring Diagrams Cell 5for schematic and connector information.</p> <p>GO to D17</p>
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D14 CHECK THE ADAPTIVE ENERGY ABSORPTION STEERING COLUMN DEPLOYMENT CONTROL CIRCUITS FOR AN INTERMITTENT SHORT TO GROUND FAULT

- 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) B0005:11 retrieved on-demand during self-test?

Yes	<p>DEPOWER the SRS (supplemental restraint system) and REPAIR as necessary.</p> <p>Refer to Wiring Diagrams Cell 5for schematic and connector information.</p> <p>GO to D17</p>
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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 D16
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D15 CHECK THE ADAPTIVE ENERGY ABSORPTION STEERING COLUMN DEPLOYMENT CONTROL CIRCUITS FOR AN INTERMITTENT SHORT TO BATTERY FAULT

- Ignition OFF.
- Depower the SRS (supplemental restraint system) .
REFER to: [Supplemental Restraint System \(SRS\) Depowering](#)(501-20B Supplemental Restraint System, General Procedures).
- Disconnect Adaptive Energy Absorption Steering Column C2360 .

GO to [D17](#)

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 [D17](#)

D17 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).
- Ignition ON.

NOTE

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

Using a diagnostic scan tool, carry out

Restraints

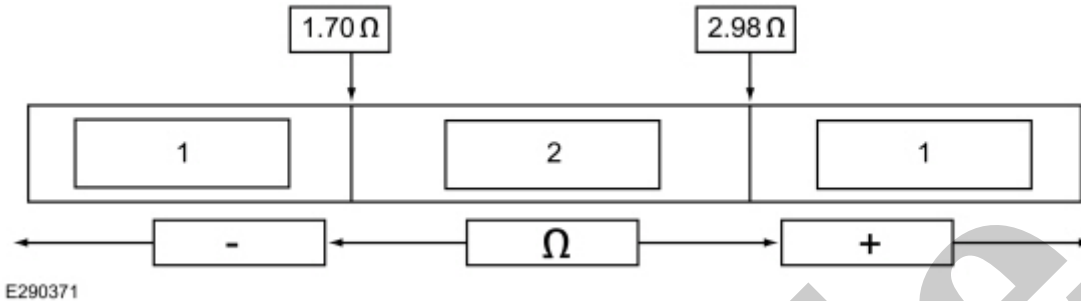
self-test.

Are any RCM (restraints control module), OCSM (occupant classification system module) or BECMB (battery energy control module B) 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 appropriate DTC (diagnostic trouble code) Chart in this section.

- Wiring
- Connections
- Passenger airbag
- RCM (restraints control module)



- 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) B0010:11	Passenger Frontal Stage 1 Deployment Control: Circuit Short To Ground	A fault is indicated when the RCM (restraints control module) senses a short to ground on either passenger airbag stage 1 circuit for more than 6 seconds.
RCM (restraints control module) B0010:12	Passenger Frontal Stage 1 Deployment Control: Circuit Short To Battery	A fault is indicated when the RCM (restraints control module) senses a short to voltage on either passenger airbag stage 1 circuit for more than 6 seconds.
RCM (restraints control module) B0010:13	Passenger Frontal Stage 1 Deployment Control: Circuit Open	A fault is indicated when the RCM (restraints control module) measures more than the desired resistance range between the passenger airbag stage 1 circuits for more than 6 seconds.
RCM (restraints control module) B0010:1A	Passenger Frontal Stage 1 Deployment Control: Circuit Resistance Below Threshold	A fault is indicated when the RCM (restraints control module) measures less than the desired resistance

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.

E1 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, perform RCM (restraints control module) self-test.

Was DTC (diagnostic trouble code) B0010:11, B0010:12, B0010:13 or B0010:1A 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>If DTC (diagnostic trouble code) U3003:16 or U3003:17 is retrieved on-demand, DIAGNOSE those Diagnostic Trouble Codes (DTCs) first. GO to Pinpoint Test BD</p> <p>If DTC (diagnostic trouble code) U3003:16 or U3003:17 is not retrieved on-demand during self-test, DIAGNOSE the passenger airbag Diagnostic Trouble Codes (DTCs).</p> <p>For DTC (diagnostic trouble code) B0010:13 or B0010:1A, GO to E2 For DTC (diagnostic trouble code) B0010:11, GO to E9 For DTC (diagnostic trouble code) B0010:12, GO to E11</p>
No	<p>This is an intermittent fault when present as a CMDTC (continuous memory diagnostic trouble code) only.</p> <p>If DTC (diagnostic trouble code) U3003:16 or U3003:17 is retrieved on-demand, DIAGNOSE those Diagnostic Trouble Codes (DTCs) first. GO to Pinpoint Test BD</p> <p>If DTC (diagnostic trouble code) U3003:16 or U3003:17 is not retrieved on-demand during self-test, DIAGNOSE the passenger airbag Continuous Memory Diagnostic Trouble Codes (CMDTCs).</p>

GO to [E18](#)

No

For PID (parameter identification) value less than 1.7 ohms, GO to [E4](#) For PID (parameter identification) value greater than 2.98 ohms, GO to [E7](#)

E4 CHECK THE PASSENGER FRONTAL STAGE 1 DEPLOYMENT CONTROL DTC (DIAGNOSTIC TROUBLE CODE) FOR A FAULT STATUS CHANGE (LOW RESISTANCE 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 Airbag C256 .
- 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 passenger airbag disconnected, open circuit faults are normally retrieved on passenger airbag stage 1.

Did the on-demand DTC (diagnostic trouble code) change from B0010:1A to B0010:13?

Yes

GO to [E12](#)

No

GO to [E5](#)

E5 CHECK FOR A SHORT BETWEEN PASSENGER AIRBAG STAGE 1 CIRCUITS

Is the resistance greater than 10,000 ohms?

Yes	REPAIR the passenger airbag stage 1 circuits for a short together. Refer to Wiring Diagrams Cell 5 for schematic and connector information. GO to E18
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No	GO to E13
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E7 CHECK THE PASSENGER AIRBAG STAGE 1 CIRCUITS 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 Passenger Airbag C256 .
- Disconnect RCM (restraints control module) C310A and C310B .
- Measure:

Positive Lead	Measurement / Action	Negative Lead
C310A-28	Ω	C256-1
C310A-27	Ω	C256-2

Are the resistances less than 0.5 ohm?

Yes	GO to E8
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No	REPAIR the circuit(s). Refer to Wiring Diagrams Cell 5 for schematic and connector information. GO to E18
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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).
- Remove the glove compartment.
REFER to: [Glove Compartment](#)(501-12 Instrument Panel and Console, Removal and Installation).
- Disconnect Passenger Airbag C256 .
- 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 passenger airbag disconnected, open circuit faults are normally retrieved on passenger airbag stages 1.

Did the on-demand DTC (diagnostic trouble code) change from B0010:11 to B0010:13?

Yes	GO to E12
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No	GO to E10
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E10 CHECK THE PASSENGER AIRBAG STAGE 1 CIRCUITS FOR A SHORT TO GROUND

- 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 .
- Measure:

Positive Lead	Measurement / Action	Negative Lead
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