

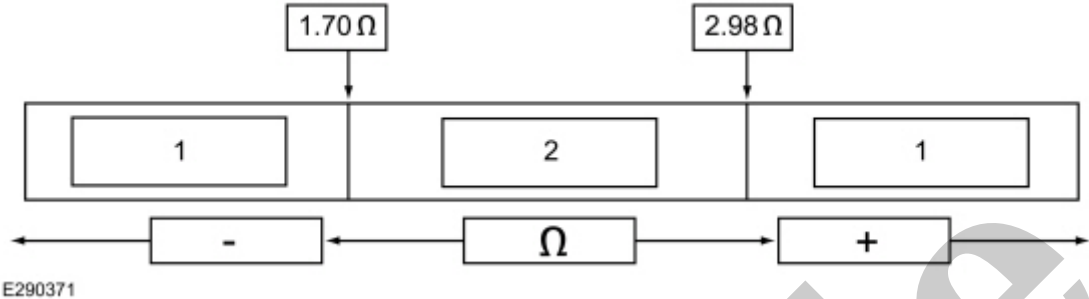
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1995 FORD Mondeo Wagon OEM Service and Repair Workshop Manual

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- Wiring
- Connections
- Passenger airbag adaptive canister vent
- 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) B11CF:11	Passenger Frontal Airbag Canister Vent: Circuit Short To Ground	A fault is indicated when the RCM (restraints control module) senses a short to ground on either passenger airbag adaptive canister vent circuit for more than 6 seconds.
RCM (restraints control module) B11CF:12	Passenger Frontal Airbag Canister Vent: Circuit Short To Battery	A fault is indicated when the RCM (restraints control module) senses a short to voltage on either passenger airbag adaptive canister vent circuit for more than 6 seconds.
RCM (restraints control module) B11CF:13	Passenger Frontal Airbag Canister Vent: Circuit Open	A fault is indicated when the RCM (restraints control module) measures more than the desired resistance between the passenger airbag adaptive canister vent circuits for more than 6 seconds.
RCM (restraints control module) B11CF:1A	Passenger Frontal Airbag Canister Vent: Circuit	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.

V1 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) B11CF:11, B11CF:12, B11CF:13 and B11CF: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) B11CF:13 or B11CF:1A, GO to [V2](#) For DTC (diagnostic trouble code) B11CF:11, GO to [V8](#) For DTC (diagnostic trouble code) B11CF:12, GO to [V10](#)

No

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

For DTC (diagnostic trouble code) B11CF:13 or B11CF:1A, GO to [V13](#) For DTC (diagnostic trouble code) B11CF:11, GO to [V14](#) For DTC (diagnostic trouble code) B11CF:12, GO to [V15](#)

V2 CHECK THE PASSENGER FRONTAL AIRBAG CAN VENT CONTROL (DEPLOY_08_R) PID (PARAMETER IDENTIFICATION)

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 adaptive canister vent disconnected, an open circuit fault is normally retrieved. An open circuit fault is also retrieved on passenger airbag stages 1 and 2, due to the passenger airbag connector being disconnected.

Did the on-demand DTC (diagnostic trouble code) change from B11CF:1A to B11CF:13?

Yes	GO to V11
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No	GO to V5
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V5 CHECK FOR A SHORT BETWEEN THE PASSENGER AIRBAG ADAPTIVE CANISTER VENT 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 .
- Measure:


No	REPAIR the circuits. Refer to Wiring Diagrams Cell 5for schematic and connector information. GO to V17
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V7 CHECK THE PASSENGER AIRBAG ADAPTIVE CANISTER VENT DEPLOYMENT CONTROL DTC (DIAGNOSTIC TROUBLE CODE) FOR A FAULT STATUS CHANGE (OPEN 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.

- Connect RCM (restraints control module) C310A and C310B (if previously disconnected).
- Connect a fused jumper wire:

Lead 1	Measurement / Action	Lead 2
C256-7		C256-8

- 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 adaptive canister vent circuits shorted together, a low resistance fault is normally retrieved. An open circuit fault is also retrieved on passenger airbag stages 1 and 2, due to the passenger airbag connector being disconnected.

Did the on-demand DTC (diagnostic trouble code) change from B11CF:13 to B11CF:1A?

Yes	REMOVE the fused jumper wire and GO to V11
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- 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
C256-7	Ω	Ground
C256-8	Ω	Ground

Are the resistances greater than 10,000 ohms?

Yes	GO to V12
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No	REPAIR the circuit(s). Refer to Wiring Diagrams Cell 5for schematic and connector information. GO to V17
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V10 CHECK THE PASSENGER AIRBAG ADAPTIVE CANISTER VENT 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).
- Remove the glove compartment.
REFER to: [Glove Compartment](#)(501-12 Instrument Panel and Console, Removal and Installation).
- Disconnect Passenger Airbag C256 .
- 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.

- 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.
- Inspect Passenger Airbag C256 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 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.

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

Yes	<p>INSTALL a new passenger airbag (includes canister vent).</p> <p>REFER to: Passenger Airbag (501-20B Supplemental Restraint System, Removal and Installation).</p> <p>GO to V17</p>
No	<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) B11CF:13 or B11CF:1A, GO to V13 For DTC (diagnostic trouble code) B11CF:11, GO to V14 For DTC (diagnostic trouble code) B11CF:12, GO to V15</p>

V12 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) will be recorded.

- Ignition OFF.

No	<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) B11CF:13 or B11CF:1A, GO to V13 For DTC (diagnostic trouble code) B11CF:11, GO to V14 For DTC (diagnostic trouble code) B11CF:12, GO to V15</p>
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V13 CHECK THE PASSENGER FRONTAL AIRBAG CAN VENT CONTROL (DEPLOY_08_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_08_R (Passenger Frontal Airbag Can Vent 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 wire harness frequently.

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

Yes	<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 V16</p>
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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 V17</p>
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V14 CHECK THE PASSENGER AIRBAG ADAPTIVE CANISTER VENT DEPLOYMENT CONTROL CIRCUITS FOR AN INTERMITTENT SHORT TO GROUND FAULT

- Remove the glove compartment.
REFER to: [Glove Compartment](#)(501-12 Instrument Panel and Console, Removal and Installation).
- 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) B11CF:11 retrieved on-demand during self-test?

- 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.
- 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) B11CF: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 V17
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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 V16
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V16 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 Passenger Airbag C256 .
 - 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.

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 W : B11D8:01, B11D8:11, B11D8:12, B11D8:13

Refer to Wiring Diagrams Cell 46 for 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) transmits an event notification signal which communicates crash status and SRS (supplemental restraint system) deployment status to the BCM (body control module) and PCM (powertrain control module). When the BCM (body control module) and PCM (powertrain control module) receive an event notification signal which indicates a crash, it initiates fuel cut-off and the SOS Post-Crash Alert feature.

The RCM (restraints control module) monitors the event notification signal circuit for the following faults:

- Short to voltage
- Short to ground
- Open circuit

If a fault is detected, the RCM (restraints control module) stores DTC (diagnostic trouble code) B11D8:11, B11D8:12 or B11D8:13 in memory. The airbag warning indicator does not illuminate if B11D8:11, B11D8:12 or B11D8:13 is set. **DTC Fault Trigger Conditions**

DTC (diagnostic trouble code)	Description	Fault Trigger Condition
BCM (body control module) B11D8:01	Restraint Event Notification: General	The BCM (body control module) sets this DTC (diagnostic trouble code) when there is a fault with the