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2011 FORD Mondeo Wagon OEM Service and Repair Workshop Manual

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Do not handle, move or change the original horizontal mounting position of the Restraints Control Module (RCM) while the Restraints Control Module (RCM) is connected and the ignition switch is ON. Failure to follow this instruction may result in the accidental deployment of the Safety Canopy® and cause serious personal injury or death.

NOTE

SRS (supplemental restraint system) components should only be disconnected or reconnected 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.

AY1 RETRIEVE ALL CONTINUOUS MEMORY DIAGNOSTIC TROUBLE CODES (CMDTCS) IN ALL MODULES

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.

- REFER to: [Pyrotechnic Device Health and Safety Precautions](#)(100-00 General Information, Description and Operation).
- Ignition ON.
- Using a diagnostic scan tool, retrieve ALL Continuous Memory Diagnostic Trouble Codes (CMDTCS).
- Record the Diagnostic Trouble Codes (DTCs) that were retrieved.

U0300:00	Information	(restraints control module) .
RCM (restraints control module) U2024:57	Control Module Cal-Config Data: Invalid/Incompatible Software Component	This DTC (diagnostic trouble code) sets due to an internal fault with the RCM (restraints control module) .
RCM (restraints control module) U2200:00	Control Module Configuration Memory Corrupt: No Sub Type Information	This DTC (diagnostic trouble code) sets due to an internal fault with the RCM (restraints control module) .
RCM (restraints control module) U3000:04	Control Module: System Internal Failures	This DTC (diagnostic trouble code) sets due to an internal fault with the RCM (restraints control module) .
RCM (restraints control module) U3000:46	Control Module: Calibration/Parameter Memory Failure	This DTC (diagnostic trouble code) sets due to an internal fault with the RCM (restraints control module) .
RCM (restraints control module) U3000:49	Control Module: Internal Electronic Failure	This DTC (diagnostic trouble code) sets due to an internal fault with the RCM (restraints control module) .

Possible Sources

- RCM (restraints control module)

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NOTE

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DTC Fault Trigger Conditions

DTC (diagnostic trouble code)	Description	Fault Trigger Condition
RCM (restraints control module) B1492:68	Fuel Cutoff Event: Event Information	This DTC (diagnostic trouble code) sets when the RCM (restraints control module) has requested a fuel shutoff event and has not received an Event Complete message from the PCM (powertrain control module) .

Possible Sources

- A crash has occurred
- Fuel system damage

NOTE

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

BA1 RESET THE ENS (EVENT NOTIFICATION SYSTEM)

- Inspect the fuel system for damage.
- Ignition OFF.
- Ignition ON.
 - Wait 10 seconds
- Ignition OFF.
- Ignition ON.
 - Wait 10 seconds

Were any fuel system concerns found?

Yes	REPAIR as necessary. GO to BA2
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No	GO to BA3
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BA2 CHECK FOR ADDITIONAL BCM (BODY CONTROL MODULE) DIAGNOSTIC TROUBLE CODES (DTCS)

- Ignition ON.

DTC Fault Trigger Conditions

DTC (diagnostic trouble code)	Description	Fault Trigger Condition
RCM (restraints control module) U2024:51	Control Module Cal-Config Data: Not Programmed	This DTC (diagnostic trouble code) sets due to incomplete or improper PMI (programmable module installation) .
RCM (restraints control module) U2100:00	Initial Configuration Not Complete: No Sub Type Information	This DTC (diagnostic trouble code) sets due to incomplete or improper PMI (programmable module installation) .

Possible Sources

- Incomplete or improper PMI (programmable module installation)

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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.

BB1 CARRY OUT PMI (PROGRAMMABLE MODULE INSTALLATION)

trouble code)		
RCM (restraints control module) U2300:55	Central Configuration: Not Configured	This DTC (diagnostic trouble code) is present in every new RCM (restraints control module) . Once the new RCM (restraints control module) is installed and it successfully receives a configuration data message from the BCM (body control module) , this DTC (diagnostic trouble code) reports as a CMDTC (continuous memory diagnostic trouble code) . If the RCM (restraints control module) reports this DTC (diagnostic trouble code) on-demand, it means that the configuration data message has not been received from the BCM (body control module) .
RCM (restraints control module) U2300:64	Central Configuration: Signal Plausibility Failure	If the RCM (restraints control module) receives a configuration data message that does not match the configuration data that was previously received and stored, it sets this DTC (diagnostic trouble code) . This DTC (diagnostic trouble code) can set on-demand during the RCM (restraints control module) prove-out, but change to a CMDTC (continuous memory diagnostic trouble code) later on in the ignition cycle if the correct message is eventually received. If PMI (programmable module installation) has not been carried out for the BCM (body control module) , this DTC (diagnostic trouble code) sets.

Possible Sources

- RCM (restraints control module) or BCM (body control module) configuration
- BCM (body control module)
- RCM (restraints control module)

WARNING

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NOTE

SRS (supplemental restraint system) components should only be disconnected or reconnected when instructed to do so within a pinpoint test step. Failure to follow this instruction may result in incorrect

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.

- REFER to: [Health and Safety Precautions](#)(100-00 General Information, Description and Operation).
- Ignition ON.
- Using a diagnostic scan tool, perform RCM (restraints control module) self-test.
- Record the RCM (restraints control module) Diagnostic Trouble Codes (DTCs) that were retrieved during the self-test.

Is DTC (diagnostic trouble code) U2300:55 or U2300:64 retrieved on-demand?

Yes	GO to BC2
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No	If DTC (diagnostic trouble code) U2300:55 or U2300:64 is retrieved as a CMDTC (continuous memory diagnostic trouble code) , CLEAR the RCM (restraints control module) Diagnostic Trouble Codes (DTCs) and REPEAT the self-test. If DTC (diagnostic trouble code) U2300:55 or U2300:64 does not return, RELEASE the vehicle to the customer. If DTC (diagnostic trouble code) U2300:55 or U2300:64 returns on-demand, GO to BC2
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BC2 CHECK FOR THE CORRECT BCM (BODY CONTROL MODULE)

- Using the Log Viewer function of the diagnostic scan tool, retrieve and record the BCM (body control module) part number.
- Check the recorded part number against the number listed in the Ford parts catalog.

Does the recorded part number match the number listed in the Ford parts catalog?

Yes	GO to BC3
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No	CARRY OUT PMI (programmable module installation) for the BCM (body control module) using As-Built data. GO to BC5
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BC3 CHECK FOR THE CORRECT RCM (RESTRAINTS CONTROL MODULE)

- 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>CHECK OASIS (Online Automotive Service Information System) for any applicable Technical Service Bulletins (TSBs). If a TSB (Technical Service Bulletin) exists for this concern, DISCONTINUE this test and FOLLOW TSB (Technical Service Bulletin) instructions. If no Technical Service Bulletins (TSBs) address this concern, INSTALL a new RCM (restraints control module) and use As-Built data when carrying out PMI (programmable module installation) .</p> <p>REFER to: Restraints Control Module (RCM) (501-20B Supplemental Restraint System, Removal and Installation).</p> <p>GO to BC5</p>
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No	GO to BC5
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BC5 CHECK FOR ADDITIONAL RCM (RESTRAINTS CONTROL MODULE) OR BCM (BODY CONTROL MODULE) DIAGNOSTIC TROUBLE CODES (DTCs)

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 ON.
- Using a diagnostic scan tool, perform RCM (restraints control module) self-test.
- Using a diagnostic scan tool, perform BCM (body control module) self-test.

Were any Diagnostic Trouble Codes (DTCs) retrieved from the RCM (restraints control module) or BCM (body control module) during self-test?

Yes	<p>If RCM (restraints control module) Diagnostic Trouble Codes (DTCs) were retrieved, do not clear any Diagnostic Trouble Codes (DTCs) until all Diagnostic Trouble Codes (DTCs) have been resolved. REFER to the RCM (restraints control module) DTC (diagnostic trouble code) Chart in this section.</p> <p>If BCM (body control module) Diagnostic Trouble Codes (DTCs) were retrieved, diagnose the BCM (body control module) .</p> <p>REFER to: Body Control Module (BCM) (419-10 Multifunction Electronic Modules, Diagnosis and Testing).</p>
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		(supplemental restraint system) fault or above 18 volts without a SRS (supplemental restraint system) fault.
OCSM (occupant classification system module) U3003:16	Battery Voltage: Circuit Voltage Below Threshold	This DTC (diagnostic trouble code) sets if the OCSM (occupant classification system module) detects voltage below 7.2 volts and another OCSM (occupant classification system module) fault exists.
OCSM (occupant classification system module) U3003:17	Battery Voltage: Circuit Voltage Above Threshold	This DTC (diagnostic trouble code) sets if the OCSM (occupant classification system module) detects voltage above 17.8 volts and another OCSM (occupant classification system module) fault exists or above 18 volts without another OCSM (occupant classification system module) fault.

Possible Sources

- Charging system concern
- OCSM (occupant classification system module)
- Wiring, terminals or connectors
- RCM (restraints control module)

Visual Inspection and Pre-checks

- Inspect for damaged wiring harness(es).
- Inspect for loose or damaged connectors.

WARNING

Incorrect repair techniques or actions can cause an accidental Supplemental Restraint System (SRS) deployment. Never compromise or depart from these instructions. Failure to precisely follow all instructions could result in serious personal injury from an accidental deployment.

WARNING

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NOTICE

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.

- REFER to: [Pyrotechnic Device Health and Safety Precautions](#)(100-00 General Information, Description and Operation).
- Ignition ON.
- Using a diagnostic scan tool, retrieve ALL Continuous Memory Diagnostic Trouble Codes (CMDTCs).

Is DTC (diagnostic trouble code) B1317, B1318, B1676, U3003:16 or U3003:17 present in one or more modules AND are any charging system Diagnostic Trouble Codes (DTCs) present in the PCM (powertrain control module) ?

Yes	DIAGNOSE the charging system. Refer to the appropriate section in Group 414for the procedure.
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No	GO to BD2
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BD2 CHECK FOR BCM (BODY CONTROL MODULE) DIAGNOSTIC TROUBLE CODES (DTCS)

- Review the Diagnostic Trouble Codes (DTCs) recorded in the previous step.

Were any BCM (body control module) Diagnostic Trouble Codes (DTCs) retrieved and recorded?

Yes	DIAGNOSE the BCM (body control module) Diagnostic Trouble Codes (DTCs). REFER to the BCM (body control module) DTC (diagnostic trouble code) Chart in this section.
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No	GO to BD3
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BD3 TEST BATTERY CONDITION

- Ignition OFF.
- Carry out the Battery Condition Test.
REFER to: [Battery](#)(414-01 Battery, Mounting and Cables, Diagnosis and Testing).

Did the battery pass the condition test?

Yes	If the battery passed the condition test but required a recharge, DIAGNOSE the charging system. Refer to the appropriate section in Group 414for the procedure. CLEAR all Continuous Memory Diagnostic Trouble Codes (CMDTCs).
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