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2014 FORD B-Max OEM Service and Repair Workshop Manual

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PINPOINT TEST R : THE DRIVER VENTILATED SEAT IS INOPERATIVE/DOES NOT OPERATE CORRECTLY

Refer to Wiring Diagrams Cell 119 for schematic and connector information.

Normal Operation and Fault Conditions REFER to: [Front Seats - System Operation and Component Description](#)

(501-10A Front Seats, Description and Operation).

DTC Fault Trigger Conditions

DTC (diagnostic trouble code)	Description	Fault Trigger Condition
DSM (driver front seat module) B14BD:11	Driver Seat Cushion Blower: Circuit Short To Ground	If the current to the driver seat cushion blower exceeds a programmed threshold, the DSM (driver front seat module) shuts down the driver seat system and sets this DTC (diagnostic trouble code) .
DSM (driver front seat module) B14BD:13	Driver Seat Cushion Blower: Circuit Open	If the current to the driver seat cushion blower exceeds a programmed threshold, the DSM (driver front seat module) shuts down the driver seat system and sets this DTC (diagnostic trouble code) .
DSM (driver front seat module) B1562:11	Driver Seat Back Blower Speed: Circuit Short To Ground	If the driver seat backrest blower speed circuit voltage is not within an expected range, the DSM (driver front seat module) shuts down the driver seat system and sets this DTC (diagnostic trouble code) .
DSM (driver front seat module) B1562:12	Driver Seat Back Blower Speed: Circuit Short To Battery	If the driver seat backrest blower speed circuit voltage is not within an expected range, the DSM (driver front seat module) shuts down the driver seat system and sets this DTC (diagnostic trouble code) .
DSM (driver front seat module) B1564:11	Driver Seat Cushion Blower Speed: Circuit Short To Ground	If the driver seat cushion blower speed circuit voltage is not within an expected range, the DSM (driver front seat module) shuts down the driver seat system and sets this DTC (diagnostic trouble code) .
DSM (driver front seat module) B1564:12	Driver Seat Cushion Blower Speed: Circuit Short To Battery	If the driver seat cushion blower speed circuit voltage is not within an expected range, the DSM (driver front seat module) shuts down the driver seat system and sets this DTC (diagnostic trouble code) .

- Ignition OFF.
- Disconnect and inspect all of the DSM (driver front seat module) connectors.
- Disconnect: Left Front Seat Cushion Blower Motor C3327.
- Disconnect: Left Front Seat Backrest Blower Motor C3033.
- Inspect the DSM (driver front seat module) , front seat cushion blower motor and front seat backrest blower motor connectors.
- Repair:
 - corrosion (install new connector or terminals - clean module pins)
 - damaged or bent pins - install new terminals/pins as necessary
 - pushed-out pins - install new pins as necessary
- Reconnect all previously disconnected connectors.
- Ignition ON.
- Operate the system and determine if the concern is still present.


Is the concern still present?

Yes	GO to R4
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No	The system is operating correctly at this time. The concern may have been caused by module connections. ADDRESS the root cause of any connector or pin issues.
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R4 CHECK THE BLOWER MOTOR CIRCUITS FOR A SHORT TO VOLTAGE

- REFER to: [Supplemental Restraint System \(SRS\) Depowering](#)(501-20B Supplemental Restraint System, General Procedures).
- Disconnect: Driver Side Airbag In-line C3051.
- Disconnect: DSM (driver front seat module) C341C and C341D.
- Disconnect: Left Front Seat Cushion Blower Motor C3327.
- Disconnect: Left Front Seat Backrest Blower Motor C3033.
- Ignition ON.
- Measure:

Positive Lead	Measurement / Action	Negative Lead
C341C-8		Ground

C341D-3	Ω	Ground
C341D-4	Ω	Ground

Are the resistances greater than 10,000 ohms?

Yes	GO to R6
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No	REPAIR the affected circuit. GO to R9
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R6 CHECK THE BLOWER MOTOR CIRCUITS FOR AN OPEN

- Measure:

Positive Lead	Measurement / Action	Negative Lead
C341C-8	Ω	C3327-1
C341C-9	Ω	C3327-3

Positive Lead	Measurement / Action	Negative Lead
C341D-3	Ω	C3327-2

- Measure:

Positive Lead	Measurement / Action	Negative Lead
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- NOTE**

Do not reconnect Driver Side Airbag In-line C3051 at this time.

Reconnect all previously disconnected connectors.

- Ignition ON.
- Operate the system and determine if the concern is still present.

Is the concern still present?

Yes

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 DSM (driver front seat module) .

REFER to: [Driver Front Seat Module \(DSM\)](#)
(501-10A Front Seats, Removal and Installation).
GO to [R9](#)

No

GO to [R9](#)

R8 CHECK THE DSM (DRIVER FRONT SEAT MODULE) OPERATION

- Ignition OFF.
- Disconnect and inspect all of the DSM (driver front seat module) connectors.
- Repair:
 - corrosion (install new connector or terminals - clean module pins)
 - damaged or bent pins - install new terminals/pins as necessary
 - pushed-out pins - install new pins as necessary
- Reconnect the DSM (driver front seat module) connectors. Make sure they seat and latch correctly.

- NOTE**

Do not reconnect Driver Side Airbag In-line C3051 at this time.

Reconnect all previously disconnected connectors.

- Ignition ON.
- Operate the system and determine if the concern is still present.

Is the concern still present?

DTC (diagnostic trouble code)	Description	Fault Trigger Condition
DSM (driver front seat module) B14C0:11	Passenger Seat Cushion Blower: Circuit Short To Ground	If the current to the passenger seat cushion blower exceeds a programmed threshold, the DSM (driver front seat module) shuts down the passenger seat system and sets this DTC (diagnostic trouble code) .
DSM (driver front seat module) B14C0:13	Passenger Seat Cushion Blower: Circuit Open	If the current to the passenger seat cushion blower exceeds a programmed threshold, the DSM (driver front seat module) shuts down the passenger seat system and sets this DTC (diagnostic trouble code) .
DSM (driver front seat module) B1563:11	Passenger Seat Back Blower Speed: Circuit Short To Ground	If the passenger seat backrest blower speed circuit voltage is not within an expected range, the DSM (driver front seat module) shuts down the passenger seat system and sets this DTC (diagnostic trouble code) .
DSM (driver front seat module) B1563:12	Passenger Seat Back Blower Speed: Circuit Short To Battery	If the passenger seat backrest blower speed circuit voltage is not within an expected range, the DSM (driver front seat module) shuts down the passenger seat system and sets this DTC (diagnostic trouble code) .
DSM (driver front seat module) B1565:11	Passenger Seat Cushion Blower Speed: Circuit Short To Ground	If the passenger seat cushion blower speed circuit voltage is not within an expected range, the DSM (driver front seat module) shuts down the passenger seat system and sets this DTC (diagnostic trouble code) .
DSM (driver front seat module) B1565:12	Passenger Seat Cushion Blower Speed: Circuit Short To Battery	If the passenger seat cushion blower speed circuit voltage is not within an expected range, the DSM (driver front seat module) shuts down the passenger seat system and sets this DTC (diagnostic trouble code) .

Possible Sources

- Wiring, terminals or connectors
- Cushion blower motor
- Backrest blower motor
- HVAC (heating, ventilation and air conditioning) module
- DSM (driver front seat module)

- corrosion (install new connector or terminals - clean module pins)
- damaged or bent pins - install new terminals/pins as necessary
- pushed-out pins - install new pins as necessary
- Reconnect all previously disconnected connectors.
- Ignition ON.
- Operate the system and determine if the concern is still present.



Is the concern still present?

Yes	GO to S4
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No	The system is operating correctly at this time. The concern may have been caused by module connections. ADDRESS the root cause of any connector or pin issues.
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S4 CHECK THE BLOWER MOTOR CIRCUITS FOR A SHORT TO VOLTAGE

- REFER to: [Supplemental Restraint System \(SRS\) Depowering](#) (501-20B Supplemental Restraint System, General Procedures).
- Disconnect: Driver Side Airbag In-line C3051.
- Disconnect: Passenger Side Airbag In-line C3053.
- Disconnect: DSM (driver front seat module) C341C and C341D.
- Disconnect: Right Front Seat Cushion Blower Motor C3328.
- Disconnect: Right Front Seat Backrest Blower Motor C3791.
- Ignition ON.
- Measure:

Positive Lead	Measurement / Action	Negative Lead
C341C-7		Ground
C341C-10		Ground

Positive Lead	Measurement / Action	Negative Lead
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Are the resistances greater than 10,000 ohms?

Yes	GO to S6
-----	--------------------------

No	REPAIR the affected circuit. GO to S9
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S6 CHECK THE BLOWER MOTOR CIRCUITS FOR AN OPEN

- Measure:

Positive Lead	Measurement / Action	Negative Lead
C341C-7	Ω	C3328-1
C341C-10	Ω	C3328-3

Positive Lead	Measurement / Action	Negative Lead
C341D-5	Ω	C3328-2

- Measure:

Positive Lead	Measurement / Action	Negative Lead
C341C-7	Ω	C3791-1
C341C-10	Ω	C3791-3

Yes	<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 DSM (driver front seat module) .</p> <p>REFER to: Driver Front Seat Module (DSM) (501-10A Front Seats, Removal and Installation).</p> <p>GO to S9</p>
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No	GO to S9
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S8 CHECK THE DSM (DRIVER FRONT SEAT MODULE) OPERATION

- Ignition OFF.
- Disconnect and inspect all of the DSM (driver front seat module) connectors.
- Repair:
 - corrosion (install new connector or terminals - clean module pins)
 - damaged or bent pins - install new terminals/pins as necessary
 - pushed-out pins - install new pins as necessary
- Reconnect the DSM (driver front seat module) connectors. Make sure they seat and latch correctly.

NOTE

Do not reconnect Driver Side Airbag In-line C3051 or Passenger Side Airbag In-line C3053 at this time.

Reconnect all previously disconnected connectors.

- Ignition ON.
- Operate the system and determine if the concern is still present.

Is the concern still present?

Yes	<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 SCME (front seat climate control module) .</p> <p>REFER to: Driver Front Seat Module (DSM) (501-10A Front Seats, Removal and Installation).</p>
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B161A:29	Invalid	code) is present, there is no warning chime when the passenger max recline seat is in the fully reclined position and vehicle is moving.
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Possible Sources

- Wiring, terminals or connectors
- H point lift sensor
- DSM (driver front seat module)

T1 CHECK THE H POINT LIFT SENSOR CIRCUITS FOR A SHORT TO VOLTAGE

Sample