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2013 FORD B-Max OEM Service and Repair Workshop Manual

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C3894-1	Ω	Ground
C3894-2	Ω	Ground
C3894-3	Ω	Ground

Are the resistances greater than 10,000 ohms?

Yes	GO to T3
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No	REPAIR the affected circuit. GO to T5
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T3 CHECK THE H POINT LIFT SENSOR CIRCUITS FOR AN OPEN

- Measure:

Positive Lead	Measurement / Action	Negative Lead
C3894-1	Ω	C341E-4
C3894-2	Ω	C341E-6
C3894-3	Ω	C341E-5

Are the resistances less than 3 ohms?

Yes	INSTALL a new H point lift sensor. REFER to: Front Seat H Point Lift Sensor - Vehicles With: Max Recline Seats
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No	GO to T5
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T5 VERIFY THE SRS (SUPPLEMENTAL RESTRAINT SYSTEM) PROVES OUT SUCCESSFULLY

- REFER to: [Supplemental Restraint System \(SRS\) Depowering](#)(501-20B Supplemental Restraint System, General Procedures).
- Connect: Driver Side Airbag In-line C3051.
- Connect: Passenger Side Airbag In-line C3053.
- Connect all previously disconnected connectors.
- REFER to: [Supplemental Restraint System \(SRS\) Repowering](#)(501-20B Supplemental Restraint System, General Procedures).

Did the SRS (supplemental restraint system) prove out successfully?

Yes	Repair is complete. RETURN the vehicle to the customer.
No	REFER to: Airbag Supplemental Restraint System (SRS) (501-20B Supplemental Restraint System, Diagnosis and Testing).

PINPOINT TEST U : AN INDIVIDUAL MULTI-CONTOUR SEAT FUNCTION IS INOPERATIVE FROM THE SEAT CONTROL SWITCH — TOUCHSCREEN CONTROL OPERATES CORRECTLY

Refer to Wiring Diagrams Cell 123for schematic and connector information.

Normal Operation and Fault Conditions Using a diagnostic scan tool, CARRY OUT self-test on the SCMG (driver multi-contour seat module) or SCMH (passenger multi-contour seat module) . If any seat control switch related Diagnostic Trouble Codes (DTCs) are present, REFER to the DTC (diagnostic trouble code) Chart. If no seat control switch related Diagnostic Trouble Codes (DTCs) are present, INSTALL a new seat control switch. REFER to: [Front Seat Control Switch](#) (501-10A Front Seats, Removal and Installation).

Possible Sources

- Seat control switch

Diagnostic steps are not provided for this symptom or DTC. REFER to: Diagnostic Methods (100-00 General Information, Description and Operation).

DTC (diagnostic trouble code)	Description	Fault Trigger Condition
DSM (driver front seat module) U0199:00	Lost Communication With 'Door Control Module A': No Sub Type Information	Set by the DSM (driver front seat module) whenever it has lost communication to the DDM (driver door module) module for 5 seconds or longer while the DSM (driver front seat module) input voltage is between 10 and 15.5 volts.

Possible Sources

- Module communication
- DSM (driver front seat module)
- DDM (driver door module)

X1 VERIFY CUSTOMER CONCERN

- Ignition ON.
- Verify there is an observable symptom present.

Is an observable symptom present?

Yes	GO to X2
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No	The system is operating normally at this time. The DTC (diagnostic trouble code) may have been set due to high network traffic or intermittent fault condition.
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X2 CHECK THE COMMUNICATION NETWORK

- Ignition ON.
- Using a diagnostic scan tool, perform the network test.

Does the DDM (driver door module) pass the network test?

Yes	GO to X3
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Yes	<p>INSTALL a new DDM (driver door module) .</p> <p>REFER to: Driver Door Module (DDM) (419-10 Multifunction Electronic Modules, Removal and Installation).</p>
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No	<p>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>
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PINPOINT TEST Y : DTC: U0212:00

Refer to Wiring Diagrams Cell 14 for schematic and connector information.

Normal Operation and Fault Conditions The DSM (driver front seat module) communicates to the SCCM (steering column control module) using the CAN (controller area network) . 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) U0212:00	Lost Communication With Steering Column Control Module: No Sub Type Information	Set by the DSM (driver front seat module) whenever it has lost communication to the SCCM (steering column control module) module for 5 seconds or longer while the DSM (driver front seat module) input voltage is between 10 and 15.5 volts.

Possible Sources

- Module communication
- DSM (driver front seat module)
- SCCM (steering column control module)

Y1 VERIFY CUSTOMER CONCERN

- Ignition ON.
- Verify there is an observable symptom present.

Is an observable symptom present?

Y4 CHECK FOR DTC U0212:00 IN OTHER MODULES

NOTE

If new modules were installed prior to the DTC (diagnostic trouble code) being set, the module configuration may be incorrectly set during PMI (programmable module installation) or the PMI (programmable module installation) may not have been carried out.

- Using a diagnostic scan tool, clear the Continuous Memory Diagnostic Trouble Codes (CMDTCs).
- Ignition OFF.
- Ignition ON.
- Wait 10 seconds.
- Using a diagnostic scan tool, retrieve the Continuous Memory Diagnostic Trouble Codes (CMDTCs) from all modules.

Is DTC (diagnostic trouble code) U0212:00 set in other modules?

Yes	INSTALL a new SCCM (steering column control module) . REFER to: Steering Column Control Module (SCCM) (211-05 Steering Wheel and Column Electrical Components, Removal and Installation). REFER to: Steering Column Control Module (SCCM) - Vehicles With: Adaptive Steering (211-05 Steering Wheel and Column Electrical Components, Removal and Installation).
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No	INSTALL a new DSM (driver front seat module) . REFER to: Driver Front Seat Module (DSM) (501-10A Front Seats, Removal and Installation).
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PINPOINT TEST Z : DTC: U0253:00

Refer to Wiring Diagrams Cell 14 for schematic and connector information.

Normal Operation and Fault Conditions The DSM (driver front seat module) communicates to the APIM (SYNC module) using the CAN (controller area network) . 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
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NOTE

If new modules were installed prior to the DTC (diagnostic trouble code) being set, the module configuration may be incorrectly set during PMI (programmable module installation) or the PMI (programmable module installation) may not have been carried out.

- Using a diagnostic scan tool, clear the Continuous Memory Diagnostic Trouble Codes (CMDTCs).
- Using a diagnostic scan tool, repeat the DSM (driver front seat module) self-test.

Is DTC (diagnostic trouble code) U0253:00 still present?

Yes

GO to [Z4](#)

No

The system is operating correctly at this time. The DTC (diagnostic trouble code) may have been set due to high network traffic or intermittent fault condition.

Z4 CHECK FOR DTC U0253:00 IN OTHER MODULES

NOTE

If new modules were installed prior to the DTC (diagnostic trouble code) being set, the module configuration may be incorrectly set during PMI (programmable module installation) or the PMI (programmable module installation) may not have been carried out.

- Using a diagnostic scan tool, clear the Continuous Memory Diagnostic Trouble Codes (CMDTCs).
- Ignition OFF.
- Ignition ON.
- Wait 10 seconds.
- Using a diagnostic scan tool, retrieve the Continuous Memory Diagnostic Trouble Codes (CMDTCs) from all modules.

Is DTC (diagnostic trouble code) U0253:00 set in other modules?

Yes

INSTALL a new APIM (SYNC module) . Refer to the appropriate section in Group 415 for the procedure.

No

INSTALL a new DSM (driver front seat module) .
REFER to: [Driver Front Seat Module \(DSM\)](#)

Yes	GO to AA3
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No	REFER to: Front Seats - System Operation and Component Description (501-10A Front Seats, Description and Operation).
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AA3 RECHECK THE DSM (DRIVER FRONT SEAT MODULE) DIAGNOSTIC TROUBLE CODES (DTCS)

NOTE

If new modules were installed prior to the DTC (diagnostic trouble code) being set, the module configuration may be incorrectly set during PMI (programmable module installation) or the PMI (programmable module installation) may not have been carried out.

- Using a diagnostic scan tool, clear the Continuous Memory Diagnostic Trouble Codes (CMDTCs).
- Using a diagnostic scan tool, repeat the DSM (driver front seat module) self-test.

Is DTC (diagnostic trouble code) U0422:00 still present?

Yes	GO to AA4
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No	The system is operating correctly at this time. The DTC (diagnostic trouble code) may have been set due to high network traffic or intermittent fault condition.
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AA4 CHECK FOR DTC U0422:00 IN OTHER MODULES

NOTE

If new modules were installed prior to the DTC (diagnostic trouble code) being set, the module configuration may be incorrectly set during PMI (programmable module installation) or the PMI (programmable module installation) may not have been carried out.

- Using a diagnostic scan tool, clear the Continuous Memory Diagnostic Trouble Codes (CMDTCs).
- Ignition OFF.
- Ignition ON.
- Wait 10 seconds.

Refer to Wiring Diagrams Cell 123for schematic and connector information.

Normal Operation and Fault Conditions Using a diagnostic scan tool, CARRY OUT PMI (programmable module installation) on the DSM (driver front seat module) . REPEAT the self-test and VERIFY successful PMI (programmable module installation) . CLEAR the Diagnostic Trouble Codes (DTCs). 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) U2100:00	Initial Configuration Not Complete: No Sub Type Information	This DTC (diagnostic trouble code) indicates PMI (programmable module installation) has not been done to a newly installed module or configuration data has been lost.

Possible Sources

- PMI (programmable module installation) has not been done to a newly installed module or configuration data has been lost.

Diagnostic steps are not provided for this symptom or DTC. REFER to: Diagnostic Methods (100-00 General Information, Description and Operation).

PINPOINT TEST AD : DTC: U2200:00

Refer to Wiring Diagrams Cell 123for schematic and connector information.

Normal Operation and Fault Conditions INSTALL a new DSM (driver front seat module) . REFER to: [Driver Front Seat Module \(DSM\)](#) (501-10A Front Seats, Removal and Installation).

DTC Fault Trigger Conditions

DTC (diagnostic trouble code)	Description	Fault Trigger Condition
DSM (driver front seat module) U2200:00	Control Module Configuration Memory Corrupt: No Sub Type Information	This DTC (diagnostic trouble code) indicates there is an internal failure in the module. The module must be replaced.

Possible Sources

replaced.

Possible Sources

- DSM (driver front seat module)

Diagnostic steps are not provided for this symptom or DTC. REFER to: Diagnostic Methods (100-00 General Information, Description and Operation).

PINPOINT TEST AG : DTC: U3500:17

Refer to Wiring Diagrams Cell 123 for schematic and connector information.

Normal Operation and Fault Conditions The DSM (driver front seat module) continuously monitors the input voltage for correct operation. If the DSM (driver front seat module) detects input voltage greater than 17 volts, it stores DTC (diagnostic trouble code) U3500:17 in memory. 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) U3500:17	Control Module Input Power 'A' Circuit Range/Performance: Circuit Voltage Above Threshold	Set by the DSM (driver front seat module) whenever the DSM (driver front seat module) input voltage is greater than 17 volts. If DTC (diagnostic trouble code) U3500:17 is set, the DSM (driver front seat module) disables the motor outputs for the driver seat.

Possible Sources

- Battery charging system

AG1 CHECK THE CHARGING SYSTEM VOLTAGE

NOTE

DTC U3500:17, B1317, B1318, B2486, B1676, U3003:16 or U3003:17 can be set if the vehicle has been recently jump started, the battery has been recently charged or the battery has been discharged. The battery may become discharged due to excessive load(s) on the charging system from aftermarket accessories or if the battery has been left unattended with the accessories on.