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## 2011 FORD C-Max OEM Service and Repair Workshop Manual

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## **Passenger Seat Track**

The passenger power seat is equipped with 2 front seat track bi-directional motors. The horizontal (fore/aft) front seat track motor is the only seat track motor which can be serviced separately from the seat track assembly. The rear height motor is serviced as part of the seat track assembly. The seat track motors move the power seat forward/backward and up/down depending on the polarity of voltage supplied from the seat control switch.

## **Passenger Seat H Point Lift Sensor**

If equipped with max recline, the passenger seat is equipped with a H point lift sensor. As the passenger seat is reclined toward the flat position, the rear of the cushion rises. The H point lift sensor is a CiPos sensor which uses a PWM (pulse width modulation) function to track the movement of the H point lift mechanism. Feedback from the H point lift sensor is communicated to the DSM (driver front seat module) for the purpose of notifying the OCS (occupant classification system) as well as requesting a warning chime and indication if the h-point lift has moved vertically while the vehicle is moving.

## **Driver Seat Backrest**

The 10-way driver seat backrest contains a bi-directional motor which is integral to the seat backrest frame assembly. If equipped with memory, the seat backrest motor contains a Hall-effect sensor which provides seat backrest position information to the DSM (driver front seat module) for setting/obtaining desired preset seat memory positions. The seat backrest motor moves the seat backrest forward/backward depending on the polarity of voltage supplied from the DSM (driver front seat module) (if equipped with memory) or from the seat control switch.

## **Passenger Seat Backrest**

The 10-way passenger seat backrest contains a bi-directional motor which is integral to the seat backrest frame assembly. The seat backrest motor moves the seat backrest forward/backward depending on the polarity of voltage supplied from the seat control switch.

## **Front Seat Power Lumbar Assembly**

The front seat power lumbar assembly is mounted to the backrest (serviced as an assembly).

## **FDIM (front display interface module)**

If equipped, the FDIM (front display interface module) (touchscreen) contains the multi-contour seat buttons.

## **HVAC (heating, ventilation and air conditioning) Module**

The HVAC (heating, ventilation and air conditioning) module contains the heated seat or heated/ventilated seat control buttons. If equipped with heated seats, the HVAC (heating, ventilation and air conditioning) module monitors the seat cushion temperature sensor and supplies heater current to the seat cushion and backrest heater mats until the desired setpoint temperature is reached. Once the setpoint temperature is reached, the HVAC (heating, ventilation and air conditioning) module cycles the heater circuits on/off as required to maintain the setpoint temperature.

Sample

DSM (driver front seat module)	B1153:4B	Driver Seat Cushion: Over Temperature	<a href="#">GO to Pinpoint Test O</a>
DSM (driver front seat module)	B1155:11	Passenger Seat: Circuit Short To Ground	<a href="#">GO to Pinpoint Test P</a>
DSM (driver front seat module)	B1155:12	Passenger Seat: Circuit Short To Battery	<a href="#">GO to Pinpoint Test P</a>
DSM (driver front seat module)	B1156:11	Driver Seat: Circuit Short To Ground	<a href="#">GO to Pinpoint Test O</a>
DSM (driver front seat module)	B1156:12	Driver Seat: Circuit Short To Battery	<a href="#">GO to Pinpoint Test O</a>
DSM (driver front seat module)	B1208:11	Driver Seat Cushion Temperature Sensor: Circuit Short To Ground	<a href="#">GO to Pinpoint Test O</a>
DSM (driver front seat module)	B1208:2A	Driver Seat Cushion Temperature Sensor: Stuck in Range	<a href="#">GO to Pinpoint Test O</a>
DSM (driver front seat module)	B120A:11	Passenger Seat Cushion Temperature Sensor: Circuit Short To Ground	<a href="#">GO to Pinpoint Test P</a>
DSM (driver front seat module)	B120A:2A	Passenger Seat Cushion Temperature Sensor: Stuck in Range	<a href="#">GO to Pinpoint Test P</a>
DSM (driver front seat module)	B14BD:11	Driver Seat Cushion Blower: Circuit Short To Ground	<a href="#">GO to Pinpoint Test R</a>
DSM (driver front seat module)	B14BD:13	Driver Seat Cushion Blower: Circuit Open	<a href="#">GO to Pinpoint Test R</a>

DSM (driver front seat module)	B14D0:12	Seat Height Front/Tilt Motor Output: Circuit Short To Battery	<a href="#">GO to Pinpoint Test H</a>
DSM (driver front seat module)	B14D0:13	Seat Height Front/Tilt Motor Output: Circuit Open	<a href="#">GO to Pinpoint Test H</a>
DSM (driver front seat module)	B14D2:11	Seat Height Rear Motor Output: Circuit Short To Ground	<a href="#">GO to Pinpoint Test H</a>
DSM (driver front seat module)	B14D2:12	Seat Height Rear Motor Output: Circuit Short To Battery	<a href="#">GO to Pinpoint Test H</a>
DSM (driver front seat module)	B14D2:13	Seat Height Rear Motor Output: Circuit Open	<a href="#">GO to Pinpoint Test H</a>
DSM (driver front seat module)	B1562:11	Driver Seat Back Blower Speed: Circuit Short To Ground	<a href="#">GO to Pinpoint Test R</a>
DSM (driver front seat module)	B1562:12	Driver Seat Back Blower Speed: Circuit Short To Battery	<a href="#">GO to Pinpoint Test R</a>
DSM (driver front seat module)	B1563:11	Passenger Seat Back Blower Speed: Circuit Short To Ground	<a href="#">GO to Pinpoint Test S</a>
DSM (driver front seat module)	B1563:12	Passenger Seat Back Blower Speed: Circuit Short To Battery	<a href="#">GO to Pinpoint Test S</a>
DSM (driver front seat module)	B1564:11	Driver Seat Cushion Blower Speed: Circuit Short To Ground	<a href="#">GO to Pinpoint Test R</a>
DSM (driver front seat module)	B1564:12	Driver Seat Cushion Blower Speed: Circuit Short To Battery	<a href="#">GO to Pinpoint Test R</a>

DSM (driver front seat module)	B1B96:24	Seat Slide Forward Switch: Signal Stuck High	<a href="#">GO to Pinpoint Test H</a>
DSM (driver front seat module)	B1B97:24	Seat Slide Backward Switch: Signal Stuck High	<a href="#">GO to Pinpoint Test H</a>
DSM (driver front seat module)	B1B98:24	Seat Tilt Up Switch: Signal Stuck High	<a href="#">GO to Pinpoint Test H</a>
DSM (driver front seat module)	B1B99:24	Seat Tilt Down Switch: Signal Stuck High	<a href="#">GO to Pinpoint Test H</a>
DSM (driver front seat module)	B1C00:24	Seat Recline Up Switch: Signal Stuck High	<a href="#">GO to Pinpoint Test H</a>
DSM (driver front seat module)	B1C01:24	Seat Recline Down Switch: Signal Stuck High	<a href="#">GO to Pinpoint Test H</a>
DSM (driver front seat module)	U0100:00	Lost Communication With ECM/PCM "A": No Sub Type Information	<a href="#">GO to Pinpoint Test AJ</a>
DSM (driver front seat module)	U0140:00	Lost Communication With Body Control Module: No Sub Type Information	<a href="#">GO to Pinpoint Test AK</a>
DSM (driver front seat module)	U0199:00	Lost Communication With "Door Control Module A": No Sub Type Information	<a href="#">GO to Pinpoint Test X</a>
DSM (driver front seat module)	U0212:00	Lost Communication With Steering Column Control Module: No Sub Type Information	<a href="#">GO to Pinpoint Test Y</a>
DSM (driver front seat module)	U0253:00	Lost Communication With Accessory Protocol Interface Module: No Sub Type Information	<a href="#">GO to Pinpoint Test Z</a>

HVAC (heating, ventilation and air conditioning)	B1036:13	Right Front Seat Heater Element: Circuit Open	<a href="#">GO to Pinpoint Test M</a>
HVAC (heating, ventilation and air conditioning)	B1038:11	Left Front Seat Heater Sensor: Circuit Short To Ground	<a href="#">GO to Pinpoint Test L</a>
HVAC (heating, ventilation and air conditioning)	B1038:15	Left Front Seat Heater Sensor: Circuit Short To Battery Or Open	<a href="#">GO to Pinpoint Test L</a>
HVAC (heating, ventilation and air conditioning)	B103A:11	Right Front Seat Heater Sensor: Circuit Short To Ground	<a href="#">GO to Pinpoint Test M</a>
HVAC (heating, ventilation and air conditioning)	B103A:15	Right Front Seat Heater Sensor: Circuit Short To Battery Or Open	<a href="#">GO to Pinpoint Test M</a>
SCME (front seat climate control module)	U1000:00	Solid State Driver Protection Active -Driver Disabled: No Sub Type Information	<a href="#">GO to Pinpoint Test AB</a>
SCMG (driver multi-contour seat module)	B146F:00	Back Bladder System Electropneumatic Failure: No Sub Type Information	<a href="#">GO to Pinpoint Test F</a>
SCMG (driver multi-contour seat module)	B146F:04	Back Bladder System Electropneumatic Failure: System Internal Failures	<a href="#">GO to Pinpoint Test F</a>
SCMG (driver multi-contour seat module)	B146F:87	Back Bladder System Electropneumatic Failure: Missing Message	<a href="#">GO to Pinpoint Test F</a>
SCMG (driver multi-contour seat module)	B1470:00	Cushion Bladder System Electropneumatic Failure: No Sub Type Information	<a href="#">GO to Pinpoint Test F</a>
SCMG (driver multi-contour seat module)	B1470:04	Cushion Bladder System Electropneumatic Failure: System Internal Failures	<a href="#">GO to Pinpoint Test F</a>

SCMH (passenger multi-contour seat module)	B146F:00	Back Bladder System Electropneumatic Failure: No Sub Type Information	<a href="#">GO to Pinpoint Test G</a>
SCMH (passenger multi-contour seat module)	B146F:04	Back Bladder System Electropneumatic Failure: System Internal Failures	<a href="#">GO to Pinpoint Test G</a>
SCMH (passenger multi-contour seat module)	B146F:87	Back Bladder System Electropneumatic Failure: Missing Message	<a href="#">GO to Pinpoint Test G</a>
SCMH (passenger multi-contour seat module)	B1470:00	Cushion Bladder System Electropneumatic Failure: No Sub Type Information	<a href="#">GO to Pinpoint Test G</a>
SCMH (passenger multi-contour seat module)	B1470:04	Cushion Bladder System Electropneumatic Failure: System Internal Failures	<a href="#">GO to Pinpoint Test G</a>
SCMH (passenger multi-contour seat module)	B1470:87	Cushion Bladder System Electropneumatic Failure: Missing Message	<a href="#">GO to Pinpoint Test G</a>
SCMH (passenger multi-contour seat module)	B1471:11	Multi-Contour Seat Switch Input: Circuit Short To Ground	<a href="#">GO to Pinpoint Test G</a>
SCMH (passenger multi-contour seat module)	B1471:13	Multi-Contour Seat Switch Input: Circuit Open	<a href="#">GO to Pinpoint Test G</a>
SCMH (passenger multi-contour seat module)	B1471:2A	Multi-Contour Seat Switch Input: Stuck in Range	<a href="#">GO to Pinpoint Test G</a>
SCMH (passenger multi-contour seat module)	B1473:11	Pump Driver: Circuit Short To Ground	<a href="#">GO to Pinpoint Test G</a>
SCMH (passenger multi-contour seat module)	U0140:00	Lost Communication With Body Control Module: No Sub Type Information	<a href="#">GO to Pinpoint Test AL</a>



Comfort & Entertainment > Seats > Front Driver > Power Function	<a href="#">GO to Pinpoint Test A</a>
Comfort & Entertainment > Seats > Front Driver > Power Function	<a href="#">GO to Pinpoint Test B</a>
Comfort & Entertainment > Seats > Front Driver > Power Function	<a href="#">GO to Pinpoint Test D</a>
Comfort & Entertainment > Seats > Front Driver > Power Function	<a href="#">GO to Pinpoint Test H</a>
Comfort & Entertainment > Seats > Front Driver > Power Function	<a href="#">GO to Pinpoint Test I</a>
Comfort & Entertainment > Seats > Front Driver > Power Function	<a href="#">GO to Pinpoint Test J</a>
Comfort & Entertainment > Seats > Front Driver > Power Function	<a href="#">GO to Pinpoint Test V</a>
Comfort & Entertainment > Seats > Front Driver > Power Function	<a href="#">GO to Pinpoint Test W</a>
Comfort & Entertainment > Seats > Front Passenger > Cooling/Ventilation	<a href="#">GO to Pinpoint Test Q</a>
Comfort & Entertainment > Seats > Front Passenger > Cooling/Ventilation	<a href="#">GO to Pinpoint Test S</a>
Comfort & Entertainment > Seats > Front Passenger > Massage	<a href="#">GO to Pinpoint Test G</a>
Comfort & Entertainment > Seats > Front Passenger > Massage	<a href="#">GO to Pinpoint Test U</a>
Comfort & Entertainment > Seats > Front Passenger > Heating	<a href="#">GO to Pinpoint Test K</a>
Comfort & Entertainment > Seats > Front Passenger > Heating	<a href="#">GO to Pinpoint Test M</a>
Comfort & Entertainment > Seats > Front Passenger > Heating	<a href="#">GO to Pinpoint Test N</a>
Comfort & Entertainment > Seats > Front Passenger > Heating	<a href="#">GO to Pinpoint Test P</a>
Comfort & Entertainment > Seats > Front Passenger > Power Function	<a href="#">GO to Pinpoint Test C</a>
Comfort & Entertainment > Seats > Front Passenger > Power Function	<a href="#">GO to Pinpoint Test E</a>
Comfort & Entertainment > Seats > Front Passenger > Power Function	<a href="#">GO to Pinpoint Test T</a>

## Symptom Chart

### Symptom Chart: Front Seats

Diagnostics in this manual assume a certain skill level and knowledge of Ford-specific diagnostic practices.

<ul style="list-style-type: none"> <li>The memory seat does not operate using the memory SET switch</li> </ul>	<ul style="list-style-type: none"> <li><a href="#">GO to Pinpoint Test I</a></li> </ul>
<ul style="list-style-type: none"> <li>The memory seat moves in two-second intervals</li> </ul>	<ul style="list-style-type: none"> <li><a href="#">GO to Pinpoint Test I</a></li> </ul>
<ul style="list-style-type: none"> <li>The memory seat does not move to the correct memory position</li> </ul>	<ul style="list-style-type: none"> <li><a href="#">GO to Pinpoint Test V</a></li> </ul>
<ul style="list-style-type: none"> <li>The memory seat does not operate when using the RKE (remote keyless entry) transmitter</li> </ul>	<ul style="list-style-type: none"> <li><a href="#">GO to Pinpoint Test W</a></li> </ul>
<ul style="list-style-type: none"> <li>Easy entry/easy exit is inoperative/does not operate correctly</li> </ul>	<ul style="list-style-type: none"> <li><a href="#">GO to Pinpoint Test J</a></li> </ul>
<ul style="list-style-type: none"> <li>Both heated seats are inoperative — without heated/ventilated seats</li> </ul>	<ul style="list-style-type: none"> <li><a href="#">GO to Pinpoint Test K</a></li> </ul>
<ul style="list-style-type: none"> <li>The driver heated seat is inoperative/does not operate correctly — without heated/ventilated seats</li> </ul>	<ul style="list-style-type: none"> <li><a href="#">GO to Pinpoint Test L</a></li> </ul>
<ul style="list-style-type: none"> <li>The passenger heated seat is inoperative/does not operate correctly — without heated/ventilated seats</li> </ul>	<ul style="list-style-type: none"> <li><a href="#">GO to Pinpoint Test M</a></li> </ul>
<ul style="list-style-type: none"> <li>Both heated seats are inoperative — with heated/ventilated seats</li> </ul>	<ul style="list-style-type: none"> <li><a href="#">GO to Pinpoint Test N</a></li> </ul>
<ul style="list-style-type: none"> <li>The left heated seat is inoperative/does not operate correctly — with heated/ventilated seats</li> </ul>	<ul style="list-style-type: none"> <li><a href="#">GO to Pinpoint Test O</a></li> </ul>
<ul style="list-style-type: none"> <li>The right heated seat is inoperative/does not operate correctly — with heated/ventilated seats</li> </ul>	<ul style="list-style-type: none"> <li><a href="#">GO to Pinpoint Test P</a></li> </ul>
<ul style="list-style-type: none"> <li>Both ventilated seats are inoperative</li> </ul>	<ul style="list-style-type: none"> <li><a href="#">GO to Pinpoint Test Q</a></li> </ul>
<ul style="list-style-type: none"> <li>The driver ventilated seat is inoperative/does not operate correctly</li> </ul>	<ul style="list-style-type: none"> <li><a href="#">GO to Pinpoint Test R</a></li> </ul>
<ul style="list-style-type: none"> <li>The passenger ventilated seat is inoperative/does not operate correctly</li> </ul>	<ul style="list-style-type: none"> <li><a href="#">GO to Pinpoint</a></li> </ul>