

2008 ACCESSORIES & BODY, CAB

Seating - Mustang

SPECIFICATIONS

TORQUE SPECIFICATIONS

Description	Nm	lb-ft	lb-in
Front Seat			
Recliner-to-backrest frame bolts	55	41	-
Recliner-to-cushion frame bolts	55	41	-
Safety belt buckle bracket-to-seat track nuts	36	27	-
Safety belt buckle-to-safety belt buckle bracket bolt	42	31	-
Seat track-to-cushion frame nuts	36	27	-
Seat track-to-floor bolts and nuts	48	35	-
Side air bag module bracket-to-backrest frame bolts	10	-	89
Side air bag module-to-bracket nuts	6	-	53
Rear Seat			
Backrest pivot bracket-to-floor bolt	23	17	-
Backrest striker bolt	23	17	-
Backrest-to-floor bolt	23	17	-

DESCRIPTION AND OPERATION

SEATS

Front Seats

The front seats can be equipped with the following systems:

- Manual seat tracks
- Power seat tracks
- Manual seat cushion height adjust (driver only)
- Manual recliner
- Power lumbar adjust (driver only)
- Seat side air bags
- Heated seats

Heated Seats

This system allows the electrical heating of the front seats on passenger demand.

The heated seats system has the following components:

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- Heated seat relays
- Heating elements located in the seat cushion and backrest
- Heated seat control switches, located on the heating ventilation air conditioning (HVAC) module

Static Lumbar

The static front seat lumbar is mounted horizontally to provide more lower body displacement for front seat occupants.

Power Lumbar

The driver seat has an electro-mechanical backrest pad adjuster mounted horizontally to provide more lower body displacement. The lumbar switch is located on the side of the seat cushion side shield.

Manual Recline

The manual recline can be adjusted by a handle mounted on the outboard side of the cushion side shield.

Seat Side Air Bags

Driver and passenger seat side air bags are attached to the seat backrest frame. For diagnostic information, or if the seat side air bag has deployed, refer to **SUPPLEMENTAL RESTRAINT SYSTEM** article.

If a seat side air bag deployment took place, new seat back foam pad, trim cover, seat side air bag module, bracket and nuts, and U-nuts and bolts must be installed. Install a new seat backrest frame, if necessary.

Front seat backrest trim covers cannot be repaired. Install new front seat backrest trim covers. Cleaning is permissible.

Occupant Classification Sensor (OCS)

The occupant classification sensor (OCS) system is standard equipment on all front passenger seats. For information on diagnosing or servicing the OCS system, refer to **SUPPLEMENTAL RESTRAINT SYSTEM** article.

Rear Seats

The fold-down rear seat backrests (coupe only) are a split (50/50) design and operate independently of each other.

The convertible is equipped with a fixed rear seat backrest.

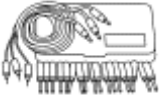
DIAGNOSTIC TESTS

SEATS

Special Tools

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Illustration	Tool Name	Tool Number
 ST1137-A	73 III Automotive Meter	105-R0057
 ST1138-A	Vehicle Communication Module (VCM) and Integrated Diagnostic System (IDS)	software with appropriate hardware, or equivalent scan tool
 ST2834-A	Flex Probe Kit	105-R025C or equivalent
 ST2834-A	Diagnostic Tool, Restraint System (2 required)	418-133

Restraint System Diagnostic Tool Warning

WARNING: Remove restraint system diagnostic tools from the vehicle prior to road testing. If tools are not removed, the supplemental restraint system (SRS) device may not deploy in a crash. Failure to follow this instruction may result in serious personal injury or death in a crash and possibly violate vehicle safety standards.

Principles of Operation

Power Seats

The 6-way power seat feature moves the seat in 6 possible directions: the base of the seat can be moved forward or rearward and the front and back of the seat cushion can be moved up and down independently. The power seat feature operates independent of the position of the ignition.

The power seat motors are hardwired to the seat control switch. The circuits are normally at ground through the seat control switch. An individual circuit is switched to power when a specific adjustment position is selected.

Heated Seats

CAUTION: Do not install a new heater mat on a front passenger seat cushion. If a new

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cushion heater mat is needed on the front passenger seat, an occupant classification sensor (OCS) service kit equipped with a heater mat must be installed. Failure to follow this instruction may result in incorrect operation of the OCS system. Refer to SUPPLEMENTAL RESTRAINT SYSTEM article for the OCS removal and installation procedure.

The driver and passenger heated seats share a common battery voltage circuit to the heated seat relay junction box. The ignition switch supplies circuit voltage to the logic board and illumination of the heated seat switches located on the heating ventilation air conditioning (HVAC) module. Battery voltage is supplied to the heater mats.

There are 2 voltage supply circuits to the heated seat relay. One circuit energizes the heated seat relay and heated seat switch indicator when the ignition switch is in the RUN position and heated seat switch is activated. This closes the relay switching voltage to the cushion and backrest heater mats from the other voltage supply circuit. The heated seat will remain on until the heated seat switch is selected off or a 10-minute time-out period occurs. If ignition switch is cycled OFF, the heated seat system is off.

Each seat's cushion and backrest heater mats are wired in series circuits. Seat temperature is maintained using a bi-metallic thermostat in each cushion heater mat which opens and closes, switching voltage on and off to the heater mats.

Inspection and Verification

1. Verify the customer concern by operating the system.
2. Visually inspect for obvious signs of mechanical or electrical damage.

VISUAL INSPECTION CHART

Mechanical	Electrical
• Front seat track • Seat at limit(s) of travel • Seat tracks obstructed or damaged • Power lumbar assembly damaged	• Heated seat fuse bussed electrical center (BEC) fuse 66 (25A) • Driver power seat and lumbar BEC fuse 14 (30A) • Passenger power seat BEC fuse 15 (30A) • Loose, corroded or damaged connectors • Seat control switch • Heated seat switch (part of heating ventilation air conditioning [HVAC] module) • Heated seat relays

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- Lumbar control switch
- Cushion heater mat
- Backrest heater mat

3. If an obvious cause for an observed or reported concern is found, correct the cause (if possible) before proceeding to the next step.
4. If the concern is not visually evident, verify the symptom. Go to **Symptom Chart**.

Symptom Chart

Symptom Chart

Condition	Possible Sources	Action
• The power seat is inoperative - driver	• Fuse • Circuitry • Seat control switch	• Go to <u>Pinpoint Test A.</u>
• The power seat is inoperative - passenger	• Fuse • Circuitry • Seat control switch	• Go to <u>Pinpoint Test B.</u>
• The power seat moves but is noisy	• Seat track alignment • Seat track	• Go to <u>Pinpoint Test C.</u>
• The power seat moves but is loose	• Fastening hardware • Seat track	• Go to <u>Pinpoint Test D.</u>
• The power seat does not make full travel	• Seat track obstructed • Seat track	• Go to <u>Pinpoint Test E.</u>
• The power seat does not move horizontally/vertically - driver	• Circuitry • Seat control switch • Seat track	• Go to <u>Pinpoint Test F.</u>
• The power seat does not move horizontally/vertically - passenger	• Circuitry • Seat control switch • Seat track	• Go to <u>Pinpoint Test G.</u>
• The power lumbar is inoperative	• Fuse • Circuitry • Lumbar control switch • Lumbar assembly	• Go to <u>Pinpoint Test H.</u>
• The heated seat is inoperative	• Fuse • Circuitry	• Go to <u>Pinpoint Test I.</u>
	• Circuitry	

• The heated seat is inoperative - driver seat does not heat but the heated seat indicator illuminates when pressed	• Cushion heater mat • Backrest heater mat • Heated seat relay • Heating ventilation air conditioning (HVAC) module	• Go to <u>Pinpoint Test J.</u>
• The heated seat is inoperative - passenger seat does not heat but the heated seat indicator illuminates when pressed	• Circuitry • Cushion heater mat • Backrest heater mat • Heated seat relay • HVAC module	• Go to <u>Pinpoint Test K.</u>

Pinpoint Tests

Refer to Inspection and Verification and the Symptom Chart for direction to the appropriate pinpoint test.

Pinpoint Test A: The Power Seat is Inoperative - Driver

Refer to appropriate SYSTEM WIRING DIAGRAM ARTICLE, Power Seats for schematic and connector information.

Normal Operation

The seat control switch is powered by battery voltage through circuit 566 (DG) and is grounded by circuit 1205 (BK). The seat control switch then routes power and ground to the appropriate circuits to operate the seat motors.

This pinpoint test is intended to diagnose the following:

- Fuse
- Wiring, terminals or connectors
- Seat control switch

PINPOINT TEST A: THE POWER SEAT IS INOPERATIVE - DRIVER

WARNING: Remove restraint system diagnostic tools from the vehicle prior to road testing. If tools are not removed, the supplemental restraint system (SRS) device may not deploy in a crash. Failure to follow this instruction may result in serious personal injury or death in a crash and possibly violate vehicle safety standards.

CAUTION: Use the correct probe adapter(s) when taking measurements. Failure to use the correct probe adapter(s) may damage the connector.

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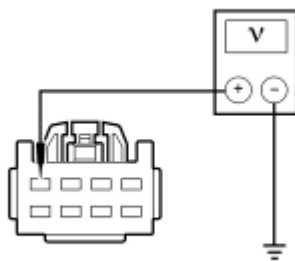
- NOTE:** The air bag warning indicator illuminates when the restraints control module (RCM) fuse is removed and the ignition switch is ON. This is normal operation and does not indicate a supplemental restraint system (SRS) fault.
- NOTE:** The SRS must be fully operational and free of faults before releasing the vehicle to the customer.

A1 CHECK VOLTAGE TO SEAT CONTROL SWITCH CIRCUIT 566 (DG)

- Key in OFF position.
- Depower the SRS. Refer to Supplemental Restraint System (SRS) Depowering and Repowering in the General Procedures portion of **SUPPLEMENTAL RESTRAINT SYSTEM** article.
- Disconnect: Driver Seat Side Air Bag C367
- Connect restraint system diagnostic tool 418-133 to driver seat side air bag C367.
- Disconnect: Driver Seat Control Switch C360

WARNING: Make sure no one is in the vehicle and there is nothing blocking or placed in front of any air bag module when the battery is connected. Failure to follow these instructions may result in serious personal injury in the event of an accidental deployment.

- Connect the battery ground cable. Refer to **BATTERY, MOUNTING AND CABLES** article.



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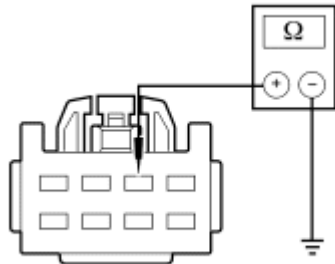
Fig. 1: Checking Voltage To Seat Control Switch Circuit 566 (DG)
Courtesy of FORD MOTOR CO.

- Measure the voltage between driver seat control switch C360-4, circuit 566 (DG), harness side and ground.
- **Is the voltage greater than 10 volts?**
YES : Go to A2.
NO : VERIFY bussed electrical center (BEC) fuse 14 (30A) is OK. If OK, REPAIR the circuit. TEST the system for normal operation.

DISCONNECT the battery ground cable. DISCONNECT the restraint system diagnostic tool from

driver seat side air bag module C367. CONNECT driver seat side air bag module C367. REPOWER the SRS. REFER to **SUPPLEMENTAL RESTRAINT SYSTEM** article.

A2 CHECK SEAT CONTROL SWITCH CIRCUIT 1205 (BK) FOR AN OPEN



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Fig. 2: Checking Seat Control Switch Circuit 1205 (BK) For Open
Courtesy of FORD MOTOR CO.

- Measure the resistance between driver seat control switch C360-2, circuit 1205 (BK), harness side and ground.
- **Is the resistance less than 5 ohms?**

YES : INSTALL a new seat control switch. REFER to **Seat Control Switch**. TEST the system for normal operation.

DISCONNECT the battery ground cable. DISCONNECT the restraint system diagnostic tool from driver seat side air bag module C367. CONNECT driver seat side air bag module C367. REPOWER the SRS. REFER to **SUPPLEMENTAL RESTRAINT SYSTEM** article.

NO : REPAIR the circuit. TEST the system for normal operation.

DISCONNECT the battery ground cable. DISCONNECT the restraint system diagnostic tool from driver seat side air bag module C367. CONNECT driver seat side air bag module C367. REPOWER the SRS. REFER to **SUPPLEMENTAL RESTRAINT SYSTEM** article.

Pinpoint Test B: The Power Seat is Inoperative - Passenger

Refer to appropriate SYSTEM WIRING DIAGRAM ARTICLE, Power Seats for schematic and connector information.

Normal Operation

The seat control switch is powered by battery voltage through circuit 1462 (RD/WH) and is grounded by circuit 1205 (BK). The seat control switch then routes power and ground to the appropriate circuits to operate the seat motors.

This pinpoint test is intended to diagnose the following:

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- Fuse
- Wiring, terminals or connectors
- Seat control switch

PINPOINT TEST B: THE POWER SEAT IS INOPERATIVE - PASSENGER

WARNING: Remove restraint system diagnostic tools from the vehicle prior to road testing. If tools are not removed, the supplemental restraint system (SRS) device may not deploy in a crash. Failure to follow this instruction may result in serious personal injury or death in a crash and possibly violate vehicle safety standards.

CAUTION: Use the correct probe adapter(s) when taking measurements. Failure to use the correct probe adapter(s) may damage the connector.

NOTE: The air bag warning indicator illuminates when the restraints control module (RCM) fuse is removed and the ignition switch is ON. This is normal operation and does not indicate a supplemental restraint system (SRS) fault.

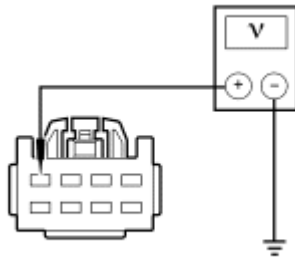
NOTE: The SRS must be fully operational and free of faults before releasing the vehicle to the customer.

B1 CHECK THE VOLTAGE TO SEAT CONTROL SWITCH CIRCUIT 1462 (RD/WH)

- Key in OFF position.
- Depower the SRS. Refer to Supplemental Restraint System (SRS) Depowering and Repowering in the General Procedures portion of **SUPPLEMENTAL RESTRAINT SYSTEM** article.
- Disconnect: Passenger Seat Side Air Bag C337
- Connect restraint system diagnostic tool 418-133 to passenger seat side air bag C337.
- Disconnect: Passenger Seat Control Switch C3190

WARNING: Make sure no one is in the vehicle and there is nothing blocking or placed in front of any air bag module when the battery is connected. Failure to follow these instructions may result in serious personal injury in the event of an accidental deployment.

- Connect the battery ground cable. Refer to **BATTERY, MOUNTING AND CABLES** article.



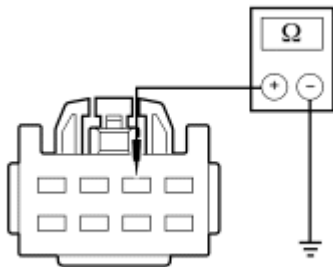
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Fig. 3: Checking Voltage To Seat Control Switch Circuit 1462 (RD/WH)
Courtesy of FORD MOTOR CO.

- Measure the voltage between passenger seat control switch C3190-4, circuit 1462 (RD/WH), harness side and ground.
- **Is the voltage greater than 10 volts?**
YES : Go to B2.
NO : VERIFY bussed electrical center (BEC) fuse 15 (30A) is OK. If OK, REPAIR the circuit. TEST the system for normal operation.

DISCONNECT the battery ground cable. DISCONNECT the restraint system diagnostic tool from passenger seat side air bag module C337. CONNECT passenger seat side air bag module C337. REPOWER the SRS. REFER to **SUPPLEMENTAL RESTRAINT SYSTEM** article.

B2 CHECK SEAT CONTROL SWITCH CIRCUIT 1205 (BK) FOR AN OPEN



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Fig. 4: Checking Seat Control Switch Circuit 1205 (BK) For Open
Courtesy of FORD MOTOR CO.

- Measure the resistance between passenger seat control switch C3190-2, circuit 1205 (BK), harness side and ground.
- **Is the resistance less than 5 ohms?**
YES : INSTALL a new seat control switch. REFER to **Seat Control Switch**. TEST the system for normal operation.

DISCONNECT the battery ground cable. DISCONNECT the restraint system diagnostic tool from

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passenger seat side air bag module C337. CONNECT passenger seat side air bag module C337. REPOWER the SRS. REFER to **SUPPLEMENTAL RESTRAINT SYSTEM** article.

NO : REPAIR the circuit. TEST the system for normal operation.

DISCONNECT the battery ground cable. DISCONNECT the restraint system diagnostic tool from passenger seat side air bag module C337. CONNECT passenger seat side air bag module C337. REPOWER the SRS. REFER to **SUPPLEMENTAL RESTRAINT SYSTEM** article.

Pinpoint Test C: The Power Seat Moves But is Noisy

Normal Operation

The power seat should move quietly during operation. Some noise is acceptable.

This pinpoint test is intended to diagnose the following:

- Seat track alignment
- Seat track obstruction
- Seat track

PINPOINT TEST C: THE POWER SEAT MOVES BUT IS NOISY

C1 CHECK THE TRACK ALIGNMENT

- Check the alignment of the track to the floor and the track to the seat.
- **Is the track out of alignment?**

YES : ALIGN the track to the seat and the floor. TEST the system for normal operation.

NO : IDENTIFY the cause and REPAIR as necessary. TEST the system for normal operation.

Pinpoint Test D: The Power Seat Moves But is Loose

Normal Operation

The power seat movement should be smooth and the seat cushion should not rock during or after operation.

This pinpoint test is intended to diagnose the following:

- Seat track fastening hardware
- Seat track

PINPOINT TEST D: THE POWER SEAT MOVES BUT IS LOOSE

D1 CHECK THE FASTENING HARDWARE

- Inspect the seat fastening hardware.
- **Is the fastening hardware loose?**

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YES : TIGHTEN all fastening hardware to specification. TEST the system for normal operation.
NO : IDENTIFY the cause and REPAIR as necessary. TEST the system for normal operation.

Pinpoint Test E: The Power Seat Does Not Make Full Travel

Normal Operation

The power seat should travel fully horizontal (forward/rearward) and vertical (front up/down and rear up/down).

This pinpoint test is intended to diagnose the following:

- Seat track obstruction
- Seat track

PINPOINT TEST E: THE POWER SEAT DOES NOT MAKE FULL TRAVEL

NOTE: The air bag warning indicator illuminates when the restraints control module (RCM) fuse is removed and the ignition switch is ON. This is normal operation and does not indicate a supplemental restraint system (SRS) fault.

NOTE: The SRS must be fully operational and free of faults before releasing the vehicle to the customer.

E1 CHECK FOR AN OBSTRUCTION IN THE SEAT TRACK

- Key in OFF position.
- Depower the SRS. Refer to Supplemental Restraint System (SRS) Depowering and Repowering in the General Procedures portion of **SUPPLEMENTAL RESTRAINT SYSTEM** article.
- Remove the affected seat. Refer to **Seat - Front**.
- **Are there any obstructions in the track?**

YES : REMOVE the obstruction(s) from the track(s). TEST the system for normal operation.

REPOWER the SRS. REFER to **SUPPLEMENTAL RESTRAINT SYSTEM** article.

NO : IDENTIFY the cause and REPAIR as necessary. TEST the system for normal operation.

REPOWER the SRS. REFER to **SUPPLEMENTAL RESTRAINT SYSTEM** article.

Pinpoint Test F : The Power Seat Does Not Move Horizontally/Vertically - Driver

Refer to appropriate SYSTEM WIRING DIAGRAM ARTICLE, Seating for schematic and connector information.

Normal Operation

When pressed in one of 6 available directions, the seat control switch supplies battery voltage and ground to 1

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of 3 power seat track motors through horizontal motor circuits 980 (YE/WH) and 981 (RD/WH), front height motor circuits 979 (RD/LB) and 990 (YE/LB) or rear height motor circuits 982 (YE/LG) and 983 (RD/LG). The seat control switch is normally closed to ground on all 6 of the seat motor circuits, so if one circuit becomes closed to power, the circuit on the opposite side of the same motor is still closed to ground. The seat motor will then operate, moving the seat track in the selected direction. Moving the seat control switch in the opposite direction reverses polarity to the seat motor, which causes the seat motor to move the seat track in the opposite direction.

This pinpoint test is intended to diagnose the following:

- Wiring, terminals or connectors
- Seat control switch
- Seat track motor

PINPOINT TEST F: THE POWER SEAT DOES NOT MOVE HORIZONTALLY/VERTICALLY - DRIVER

WARNING: Remove restraint system diagnostic tools from the vehicle prior to road testing. If tools are not removed, the supplemental restraint system (SRS) device may not deploy in a crash. Failure to follow this instruction may result in serious personal injury or death in a crash and possibly violate vehicle safety standards.

NOTE: The air bag warning indicator illuminates when the restraints control module (RCM) fuse is removed and the ignition switch is ON. This is normal operation and does not indicate a supplemental restraint system (SRS) fault.

NOTE: The SRS must be fully operational and free of faults before releasing the vehicle to the customer.

F1 CHECK THE HORIZONTAL MOTOR FOR CORRECT OPERATION

- Operate the driver seat control switch to the forward and rearward positions.
- **Does the seat move horizontally?**
YES : Go to F2.
NO : Go to F9.

F2 DETERMINE SEAT HEIGHT ADJUST FAILURE

- Determine the seat height adjust failure.
- **Does the seat front or rear height adjust up and down?**
YES : If only the front height adjust operates, go to F3.

If only the rear height adjust operates, go to F6.

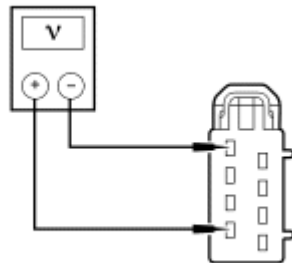
NO : INSTALL a new seat control switch. REFER to **Seat Control Switch**. TEST the system for normal operation.

F3 CHECK VOLTAGE TO THE REAR HEIGHT MOTOR

- Key in OFF position.
- Depower the SRS. Refer to Supplemental Restraint System (SRS) Depowering and Repowering in the General Procedures portion of **SUPPLEMENTAL RESTRAINT SYSTEM** article.
- Disconnect: Driver Seat Side Air Bag C367
- Connect restraint system diagnostic tool 418-133 to driver seat side air bag C367.
- Disconnect: Driver Power Seat Motor Assembly C353

WARNING: Make sure no one is in the vehicle and there is nothing blocking or placed in front of any air bag module when the battery is connected. Failure to follow these instructions may result in serious personal injury in the event of an accidental deployment.

- Connect the battery ground cable. Refer to **BATTERY, MOUNTING AND CABLES** article.



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Fig. 5: Checking Voltage To Rear Height Motor
Courtesy of FORD MOTOR CO.

- Measure the voltage between driver power seat motor assembly C353-8, circuit 983 (RD/LG) and C353-2, circuit 982 (YE/LG), harness side, while operating the seat control switch rear height up and down.
- **Is the voltage greater than 10 volts when the seat control switch is toggled in both directions and 0 volts in the rest position?**

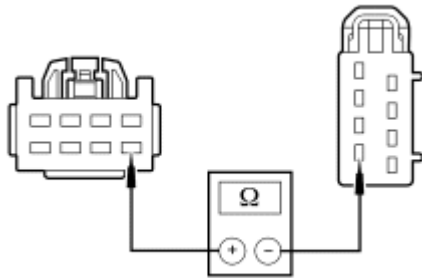
YES : INSTALL a new power seat track. REFER to **Seat Track - Power**. TEST the system for normal operation.

DISCONNECT the battery ground cable. DISCONNECT the restraint system diagnostic tool from driver seat side air bag module C367. CONNECT driver seat side air bag module C367. REPOWER the SRS. REFER to **SUPPLEMENTAL RESTRAINT SYSTEM** article.

NO : Go to F4.

F4 CHECK CIRCUIT 983 (RD/LG) FOR AN OPEN

- Disconnect: Driver Seat Control Switch C360



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Fig. 6: Checking Circuit 983 (RD/LG) For Open
Courtesy of FORD MOTOR CO.

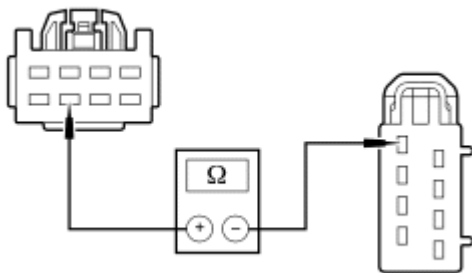
- Measure the resistance between driver seat control switch C360-5, circuit 983 (RD/LG), harness side and driver power seat motor assembly C353-8, circuit 983 (RD/LG), harness side.
- **Is the resistance less than 5 ohms?**

YES : Go to F5.

NO : REPAIR the circuit. TEST the system for normal operation.

DISCONNECT the battery ground cable. DISCONNECT the restraint system diagnostic tool from driver seat side air bag module C367. CONNECT driver seat side air bag module C367. REPOWER the SRS. REFER to **SUPPLEMENTAL RESTRAINT SYSTEM** article.

F5 CHECK CIRCUIT 982 (YE/LG) FOR AN OPEN



N0013780

Fig. 7: Checking Circuit 982 (YE/LG) For Open
Courtesy of FORD MOTOR CO.

- Measure the resistance between driver seat control switch C360-7, circuit 982 (YE/LG), harness side and driver power seat motor assembly C353-2, circuit 982 (YE/LG), harness side.
- **Is the resistance less than 5 ohms?**

YES : INSTALL a new driver seat control switch. REFER to **Seat Control Switch**. TEST the system for normal operation.

DISCONNECT the battery ground cable. DISCONNECT the restraint system diagnostic tool from driver seat side air bag module C367. CONNECT driver seat side air bag module C367.

REPOWER the SRS. REFER to **SUPPLEMENTAL RESTRAINT SYSTEM** article.

NO : REPAIR the circuit. TEST the system for normal operation.

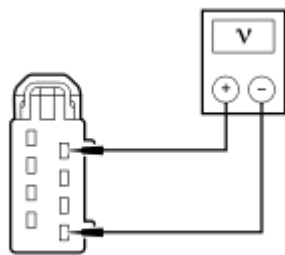
DISCONNECT the battery ground cable. DISCONNECT the restraint system diagnostic tool from driver seat side air bag module C367. CONNECT driver seat side air bag module C367. REPOWER the SRS. REFER to **SUPPLEMENTAL RESTRAINT SYSTEM** article.

F6 CHECK VOLTAGE TO THE FRONT HEIGHT MOTOR

- Key in OFF position.
- Depower the SRS. Refer to Supplemental Restraint System (SRS) Depowering and Repowering in the General Procedures portion of **SUPPLEMENTAL RESTRAINT SYSTEM** article.
- Disconnect: Driver Seat Side Air Bag C367
- Connect restraint system diagnostic tool 418-133 to driver seat side air bag C367.
- Disconnect: Driver Power Seat Motor Assembly C353

WARNING: Make sure no one is in the vehicle and there is nothing blocking or placed in front of any air bag module when the battery is connected. Failure to follow these instructions may result in serious personal injury in the event of an accidental deployment.

- Connect the battery ground cable. Refer to **BATTERY, MOUNTING AND CABLES** article.



N0013781

Fig. 8: Checking Voltage To Front Height Motor
Courtesy of FORD MOTOR CO.

- Measure the voltage between driver power seat motor assembly C353-1, circuit 979 (RD/LB) and C353-7, circuit 990 (YE/LB), harness side while operating the driver seat control switch front height up and down.
- **Is the voltage greater than 10 volts when the seat control switch is toggled in both directions and 0 volts in the rest position?**

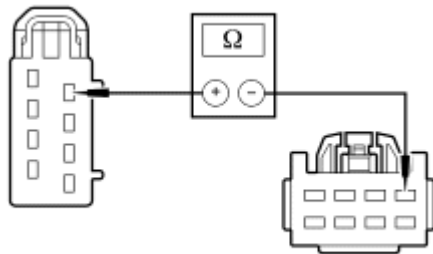
YES : INSTALL a new power seat track. REFER to **Seat Track - Power**. TEST the system for normal operation.

DISCONNECT the battery ground cable. DISCONNECT the restraint system diagnostic tool from driver seat side air bag module C367. CONNECT driver seat side air bag module C367. REPOWER the SRS. REFER to **SUPPLEMENTAL RESTRAINT SYSTEM** article.

NO : Go to F7.

F7 CHECK CIRCUIT 979 (RD/LB) FOR AN OPEN

- Disconnect: Driver Seat Control Switch C360



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Fig. 9: Checking Circuit 979 (RD/LB) For Open
Courtesy of FORD MOTOR CO.

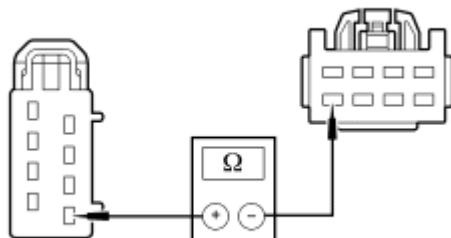
- Measure the resistance between driver seat control switch C360-1, circuit 979 (RD/LB), harness side and driver power seat motor assembly C353-1, circuit 979 (RD/LB), harness side.
- **Is the resistance less than 5 ohms?**

YES : Go to F8.

NO : REPAIR the circuit. TEST the system for normal operation.

DISCONNECT the battery ground cable. DISCONNECT the restraint system diagnostic tool from driver seat side air bag module C367. CONNECT driver seat side air bag module C367. REPOWER the SRS. REFER to **SUPPLEMENTAL RESTRAINT SYSTEM** article.

F8 CHECK CIRCUIT 990 (YE/LB) FOR AN OPEN



N0013783

Fig. 10: Checking Circuit 990 (YE/LB) For Open
Courtesy of FORD MOTOR CO.

- Measure the resistance between driver seat control switch C360-8, circuit 990 (YE/LB), harness side and driver power seat motor assembly C353-7, circuit 990 (YE/LB), harness side.
- **Is the resistance less than 5 ohms?**

YES : INSTALL a new driver seat control switch. REFER to **Seat Control Switch**. TEST the system for normal operation.

DISCONNECT the battery ground cable. DISCONNECT the restraint system diagnostic tool from driver seat side air bag module C367. CONNECT driver seat side air bag module C367. REPOWER the SRS. REFER to **SUPPLEMENTAL RESTRAINT SYSTEM** article.

NO : REPAIR the circuit. TEST the system for normal operation.

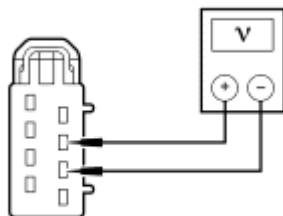
DISCONNECT the battery ground cable. DISCONNECT the restraint system diagnostic tool from driver seat side air bag module C367. CONNECT driver seat side air bag module C367. REPOWER the SRS. REFER to **SUPPLEMENTAL RESTRAINT SYSTEM** article.

F9 CHECK VOLTAGE TO THE HORIZONTAL MOTOR

- Key in OFF position.
- Depower the SRS. Refer to Supplemental Restraint System (SRS) Depowering and Repowering in the General Procedures portion of **SUPPLEMENTAL RESTRAINT SYSTEM** article.
- Disconnect: Driver Seat Side Air Bag C367
- Connect restraint system diagnostic tool 418-133 to driver seat side air bag C367.
- Disconnect: Driver Power Seat Motor Assembly C353

WARNING: Make sure no one is in the vehicle and there is nothing blocking or placed in front of any air bag module when the battery is connected. Failure to follow these instructions may result in serious personal injury in the event of an accidental deployment.

- Connect the battery ground cable. Refer to **BATTERY, MOUNTING AND CABLES** article.



N0013784

Fig. 11: Checking Voltage To Horizontal Motor
Courtesy of FORD MOTOR CO.

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- Measure the voltage between driver power seat motor assembly C353-3, circuit 981 (RD/WH) and C353-5, circuit 980 (YE/WH), harness side while operating the seat control switch forward and rearward.
- **Is the voltage greater than 10 volts when the seat control switch is toggled in both directions and 0 volts in the rest position?**

YES : INSTALL a new power seat track. REFER to **Seat Track - Power**. TEST the system for normal operation.

DISCONNECT the battery ground cable. DISCONNECT the restraint system diagnostic tool from driver seat side air bag module C367. CONNECT driver seat side air bag module C367. REPOWER the SRS. REFER to **SUPPLEMENTAL RESTRAINT SYSTEM** article.

NO : Go to F10.

F10 CHECK CIRCUIT 981 (RD/WH) FOR AN OPEN

- Disconnect: Driver Seat Control Switch C360

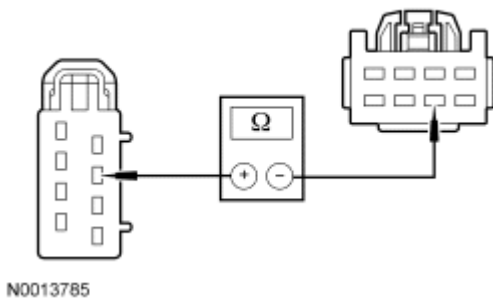


Fig. 12: Checking Circuit 981 (RD/WH) For Open
Courtesy of FORD MOTOR CO.

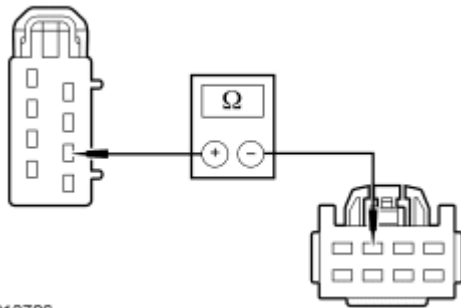
- Measure the resistance between driver seat control switch C360-6, circuit 981 (RD/WH), harness side, and driver power seat motor assembly C353-3, circuit 981 (RD/WH), harness side.
- **Is the resistance less than 5 ohms?**

YES : Go to F11.

NO : REPAIR the circuit. TEST the system for normal operation.

DISCONNECT the battery ground cable. DISCONNECT the restraint system diagnostic tool from driver seat side air bag module C367. CONNECT driver seat side air bag module C367. REPOWER the SRS. REFER to **SUPPLEMENTAL RESTRAINT SYSTEM** article.

F11 CHECK CIRCUIT 980 (YE/WH) FOR AN OPEN



N0013786

Fig. 13: Checking Circuit 980 (YE/WH) For Open
Courtesy of FORD MOTOR CO.

- Measure the resistance between driver seat control switch C360-3, circuit 980 (YE/WH), harness side and driver power seat motor assembly C353-5, circuit 980 (YE/WH), harness side.
- **Is the resistance less than 5 ohms?**

YES : INSTALL a new driver seat control switch. REFER to **Seat Control Switch**. TEST the system for normal operation.

DISCONNECT the battery ground cable. DISCONNECT the restraint system diagnostic tool from driver seat side air bag module C367. CONNECT driver seat side air bag module C367. REPOWER the SRS. REFER to **SUPPLEMENTAL RESTRAINT SYSTEM** article.

NO : REPAIR the circuit. TEST the system for normal operation.

DISCONNECT the battery ground cable. DISCONNECT the restraint system diagnostic tool from driver seat side air bag module C367. CONNECT driver seat side air bag module C367. REPOWER the SRS. REFER to **SUPPLEMENTAL RESTRAINT SYSTEM** article.

Pinpoint Test G: The Power Seat Does Not Move Horizontally/Vertically - Passenger

Refer to appropriate SYSTEM WIRING DIAGRAM ARTICLE, Seating for schematic and connector information.

Normal Operation

When pressed in one of 6 available directions, the seat control switch supplies battery voltage and ground to 1 of 3 power seat track motors through horizontal motor circuits 986 (YE/WH) and 987 (RD/WH), front height motor circuits 984 (YE/LB) and 985 (RD/LB) or rear height motor circuits 988 (YE/LG) and 989 (RD/LG). The seat control switch is normally closed to ground on all 6 of the seat motor circuits, so if one circuit becomes closed to power, the circuit on the opposite side of the same motor is still closed to ground. The seat motor will then operate, moving the seat track in the selected direction. Moving the seat control switch in the opposite direction reverses polarity to the seat motor, which causes the seat motor to move the seat track in the opposite direction.

This pinpoint test is intended to diagnose the following:

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- Wiring, terminals or connectors
- Seat control switch
- Seat track motor

PINPOINT TEST G: THE POWER SEAT DOES NOT MOVE HORIZONTALLY/VERTICALLY - PASSENGER

WARNING: Remove restraint system diagnostic tools from the vehicle prior to road testing. If tools are not removed, the supplemental restraint system (SRS) device may not deploy in a crash. Failure to follow this instruction may result in serious personal injury or death in a crash and possibly violate vehicle safety standards.

NOTE: The air bag warning indicator illuminates when the restraints control module (RCM) fuse is removed and the ignition switch is ON. This is normal operation and does not indicate a supplemental restraint system (SRS) fault.

NOTE: The SRS must be fully operational and free of faults before releasing the vehicle to the customer.

G1 CHECK THE HORIZONTAL MOTOR FOR CORRECT OPERATION

- Operate the passenger seat control switch to the forward and rearward positions.
- **Does the seat move horizontally?**

YES : Go to G2.

NO : Go to G9.

G2 DETERMINE SEAT HEIGHT ADJUST FAILURE

- Determine seat height adjust failure.
- **Does the seat front or rear height adjust up and down?**

YES : If only the rear height adjust operates, go to G3.

If only the front height adjust operates, go to G6.

NO : INSTALL a new seat control switch. REFER to Seat Control Switch. TEST the system for normal operation.

DISCONNECT the battery ground cable. DISCONNECT the restraint system diagnostic tool from passenger seat side air bag module C337. CONNECT passenger seat side air bag module C337. REPOWER the SRS. REFER to SUPPLEMENTAL RESTRAINT SYSTEM article.

G3 CHECK VOLTAGE TO THE FRONT HEIGHT MOTOR

- Key in OFF position.
- Depower the SRS. Refer to Supplemental Restraint System (SRS) Depowering and Repowering in the General Procedures portion of SUPPLEMENTAL RESTRAINT SYSTEM article.

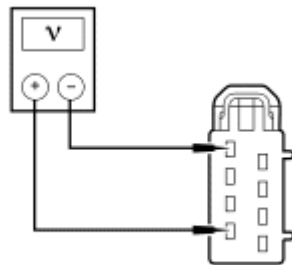
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- Disconnect: Passenger Seat Side Air Bag C337
- Connect restraint system diagnostic tool 418-133 to passenger seat side air bag C337.
- Disconnect: Passenger Power Seat Motor Assembly C3015

WARNING: Make sure no one is in the vehicle and there is nothing blocking or placed in front of any air bag module when the battery is connected. Failure to follow these instructions may result in serious personal injury in the event of an accidental deployment.

- Connect the battery ground cable. Refer to **BATTERY, MOUNTING AND CABLES** article.



N0013778

Fig. 14: Checking Voltage To Rear Height Motor
Courtesy of FORD MOTOR CO.

- Measure the voltage between passenger power seat motor assembly C3015-8, circuit 984 (YE/LB) and C3015-2, circuit 985 (RD/LB), harness side, while operating the seat control switch rear height up and down.
- **Is the voltage greater than 10 volts when the seat control switch is toggled in both directions and 0 volts in the rest position?**

YES : INSTALL a new power seat track. REFER to **Seat Track - Power**. TEST the system for normal operation.

DISCONNECT the battery ground cable. DISCONNECT the restraint system diagnostic tool from passenger seat side air bag module C337. CONNECT passenger seat side air bag module C337. REPOWER the SRS. REFER to **SUPPLEMENTAL RESTRAINT SYSTEM** article.

NO : Go to G4.

G4 CHECK CIRCUIT 984 (YE/LB) FOR AN OPEN

- Disconnect: Passenger Seat Control Switch C3190

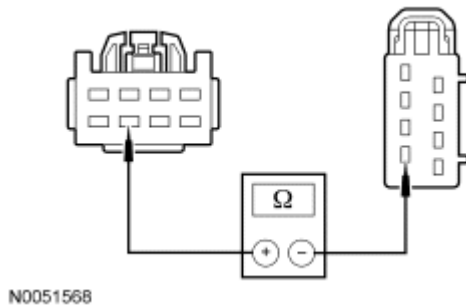


Fig. 15: Measuring Resistance Between Passenger Seat Control Switch C3190-7 & C3015-8, Circuit 984 (YE/LB)
 Courtesy of FORD MOTOR CO.

- Measure the resistance between passenger seat control switch C3190-7, circuit 984 (YE/LB), harness side and passenger power seat motor assembly C3015-8, circuit 984 (YE/LB), harness side.
- **Is the resistance less than 5 ohms?**
YES : Go to G5.
NO : REPAIR the circuit. TEST the system for normal operation.

DISCONNECT the battery ground cable. DISCONNECT the restraint system diagnostic tool from passenger seat side air bag module C337. CONNECT passenger seat side air bag module C337. REPOWER the SRS. REFER to **SUPPLEMENTAL RESTRAINT SYSTEM** article.

G5 CHECK CIRCUIT 985 (RD/LB) FOR AN OPEN

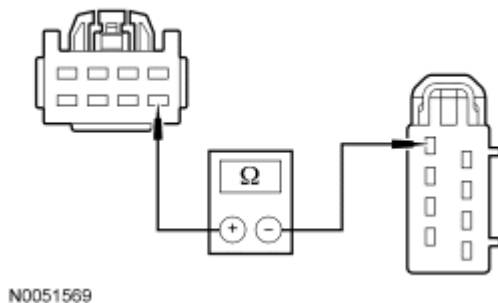


Fig. 16: Measuring Resistance Between Passenger Seat Control Switch C3190-5 & C3015-2, Circuit 985 (RD/LB)
 Courtesy of FORD MOTOR CO.

- Measure the resistance between passenger seat control switch C3190-5, circuit 985 (RD/LB), harness side and passenger power seat motor assembly C3015-2, circuit 985 (RD/LB), harness side.
- **Is the resistance less than 5 ohms?**
YES : INSTALL a new passenger seat control switch. REFER to **Seat Control Switch**. TEST the system for normal operation.

DISCONNECT the battery ground cable. DISCONNECT the restraint system diagnostic tool from passenger seat side air bag module C337. CONNECT passenger seat side air bag module C337. REPOWER the SRS. REFER to **SUPPLEMENTAL RESTRAINT SYSTEM** article.

NO : REPAIR the circuit. TEST the system for normal operation.

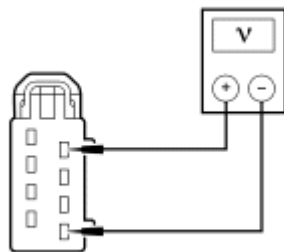
DISCONNECT the battery ground cable. DISCONNECT the restraint system diagnostic tool from driver seat side air bag module C367. CONNECT driver seat side air bag module C367. REPOWER the SRS. REFER to **SUPPLEMENTAL RESTRAINT SYSTEM** article.

G6 CHECK VOLTAGE TO THE REAR HEIGHT MOTOR

- Key in OFF position.
- Depower the SRS. Refer to Supplemental Restraint System (SRS) Depowering and Repowering in the General Procedures portion of **SUPPLEMENTAL RESTRAINT SYSTEM** article.
- Disconnect: Passenger Seat Side Air Bag C337
- Connect restraint system diagnostic tool 418-133 to passenger seat side air bag C337.
- Disconnect: Passenger Power Seat Motor Assembly C3015

WARNING: Make sure no one is in the vehicle and there is nothing blocking or placed in front of any air bag module when the battery is connected. Failure to follow these instructions may result in serious personal injury in the event of an accidental deployment.

- Connect the battery ground cable. Refer to **BATTERY, MOUNTING AND CABLES** article.



N0013781

Fig. 17: Checking Voltage To Rear Height Motor
Courtesy of FORD MOTOR CO.

- Measure the voltage between passenger power seat motor assembly C3015-1, circuit 988 (YE/LG) and C3015-7, circuit 989 (RD/LG), harness side while operating the passenger seat control switch front height up and down.
- **Is the voltage greater than 10 volts when the seat control switch is toggled in both directions and 0 volts in the rest position?**

YES : INSTALL a new power seat track. REFER to **Seat Track - Power**. TEST the system for

normal operation.

DISCONNECT the battery ground cable. DISCONNECT the restraint system diagnostic tool from passenger seat side air bag module C337. CONNECT passenger seat side air bag module C337. REPOWER the SRS. REFER to **SUPPLEMENTAL RESTRAINT SYSTEM** article.

NO : Go to G7.

G7 CHECK CIRCUIT 988 (YE/LG) FOR AN OPEN

- Disconnect: Passenger Seat Control Switch C3190

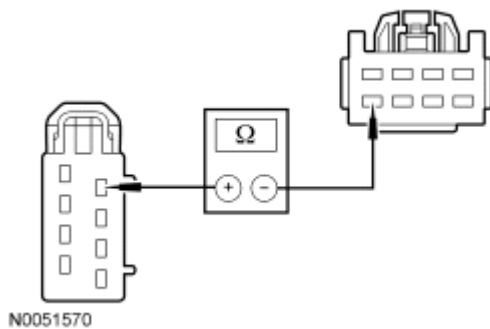


Fig. 18: Measuring Resistance Between Passenger Seat Control Switch C3190-8 & C3015-1, Circuit 988 (YE/LG)
Courtesy of FORD MOTOR CO.

- Measure the resistance between passenger seat control switch C3190-8, circuit 988 (YE/LG), harness side and passenger power seat motor assembly C3015-1, circuit 988 (YE/LG), harness side.
- **Is the resistance less than 5 ohms?**

YES : Go to G8.

NO : REPAIR the circuit. TEST the system for normal operation.

DISCONNECT the battery ground cable. DISCONNECT the restraint system diagnostic tool from passenger seat side air bag module C337. CONNECT passenger seat side air bag module C337. REPOWER the SRS. REFER to **SUPPLEMENTAL RESTRAINT SYSTEM** article.

G8 CHECK CIRCUIT 989 (RD/LG) FOR AN OPEN

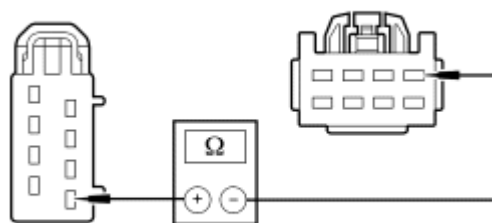


Fig. 19: Measuring Resistance Between Passenger Seat Control Switch C3190-1 & C3015-7, Circuit 989 (RD/LG)

Courtesy of FORD MOTOR CO.

- Measure the resistance between passenger seat control switch C3190-1, circuit 989 (RD/LG), harness side and passenger power seat motor assembly C3015-7, circuit 989 (RD/LG), harness side.
- **Is the resistance less than 5 ohms?**

YES : INSTALL a new passenger seat control switch. REFER to **Seat Control Switch**. TEST the system for normal operation.

DISCONNECT the battery ground cable. DISCONNECT the restraint system diagnostic tool from passenger seat side air bag module C337. CONNECT driver seat side air bag module C337. REPOWER the SRS. REFER to **SUPPLEMENTAL RESTRAINT SYSTEM** article.

NO : REPAIR the circuit. TEST the system for normal operation.

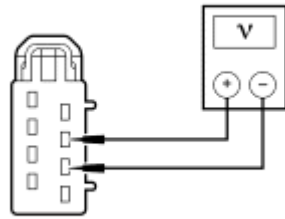
DISCONNECT the battery ground cable. DISCONNECT the restraint system diagnostic tool from passenger seat side air bag module C337. CONNECT passenger seat side air bag module C337. REPOWER the SRS. REFER to **SUPPLEMENTAL RESTRAINT SYSTEM** article.

G9 CHECK VOLTAGE TO THE HORIZONTAL MOTOR

- Key in OFF position.
- Depower the SRS. Refer to Supplemental Restraint System (SRS) Depowering and Repowering in the General Procedures portion of **SUPPLEMENTAL RESTRAINT SYSTEM** article.
- Disconnect: Passenger Seat Side Air Bag C337
- Connect restraint system diagnostic tool 418-133 to passenger seat side air bag C337.
- Disconnect: Passenger Power Seat Motor Assembly C3015

WARNING: Make sure no one is in the vehicle and there is nothing blocking or placed in front of any air bag module when the battery is connected. Failure to follow these instructions may result in serious personal injury in the event of an accidental deployment.

- Connect the battery ground cable. Refer to **BATTERY, MOUNTING AND CABLES** article.



N0013784

Fig. 20: Checking Voltage To Horizontal Motor
Courtesy of FORD MOTOR CO.

- Measure the voltage between passenger power seat motor assembly C3015-3, circuit 987 (RD/WH) and C3015-5, circuit 986 (YE/WH), harness side while operating the seat control switch forward and rearward.
- **Is the voltage greater than 10 volts when the seat control switch is toggled in both directions and 0 volts in the rest position?**

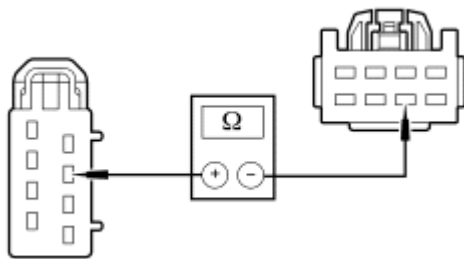
YES : INSTALL a new power seat track. REFER to **Seat Track - Power**. TEST the system for normal operation.

DISCONNECT the battery ground cable. DISCONNECT the restraint system diagnostic tool from passenger seat side air bag module C337. CONNECT passenger seat side air bag module C337. REPOWER the SRS. REFER to **SUPPLEMENTAL RESTRAINT SYSTEM** article.

NO : Go to G10.

G10 CHECK CIRCUIT 987 (RD/WH) FOR AN OPEN

- Disconnect: Passenger Seat Control Switch C3190



N0013785

Fig. 21: Checking Circuit 987 (RD/WH) For Open
Courtesy of FORD MOTOR CO.

- Measure the resistance between passenger seat control switch C3190-6, circuit 987 (RD/WH), harness side, and driver power seat motor assembly C3015-3, circuit 987 (RD/WH), harness side.
- **Is the resistance less than 5 ohms?**

YES : Go to G11.

NO : REPAIR the circuit. TEST the system for normal operation.

DISCONNECT the battery ground cable. DISCONNECT the restraint system diagnostic tool from passenger seat side air bag module C337. CONNECT passenger seat side air bag module C337. REPOWER the SRS. REFER to **SUPPLEMENTAL RESTRAINT SYSTEM** article.

G11 CHECK CIRCUIT 986 (YE/WH) FOR AN OPEN

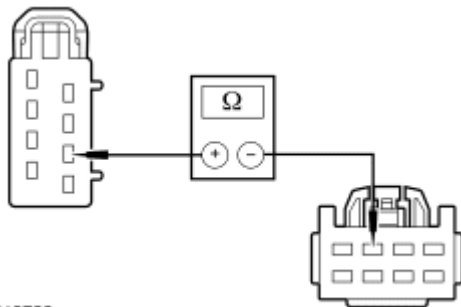


Fig. 22: Checking Circuit 986 (YE/WH) For Open
Courtesy of FORD MOTOR CO.

- Measure the resistance between passenger seat control switch C3190-3, circuit 986 (YE/WH), harness side and driver power seat motor assembly C3015-5, circuit 986 (YE/WH), harness side.
- **Is the resistance less than 5 ohms?**

YES : INSTALL a new passenger seat control switch. REFER to **Seat Control Switch**. TEST the system for normal operation.

DISCONNECT the battery ground cable. DISCONNECT the restraint system diagnostic tool from passenger seat side air bag module C337. CONNECT passenger seat side air bag module C337. REPOWER the SRS. REFER to **SUPPLEMENTAL RESTRAINT SYSTEM** article.

NO : REPAIR the circuit. TEST the system for normal operation.

DISCONNECT the battery ground cable. DISCONNECT the restraint system diagnostic tool from passenger seat side air bag module C337. CONNECT passenger seat side air bag module C337. REPOWER the SRS. REFER to **SUPPLEMENTAL RESTRAINT SYSTEM** article.

Pinpoint Test H: The Power Lumbar is Inoperative

Refer to appropriate SYSTEM WIRING DIAGRAM ARTICLE, Seating for schematic and connector information.

Normal Operation

The lumbar control switch is powered by battery voltage on circuit 566 (DG) and is supplied ground on circuit 1205 (BK). When the lumbar control switch is operated, voltage and ground are supplied to the power lumbar motor circuits 1094 (PK) and 1097 (BN) to move the lumbar assembly inward or outward. Operating the lumbar

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control switch in the opposite direction reverses the polarity to the power lumbar motor, which moves the lumbar assembly in the opposite direction.

This pinpoint test is intended to diagnose the following:

- Wiring, terminals or connectors
- Lumbar control switch
- Power lumbar assembly

PINPOINT TEST H: THE POWER LUMBAR IS INOPERATIVE

WARNING: Remove restraint system diagnostic tools from the vehicle prior to road testing. If tools are not removed, the supplemental restraint system (SRS) device may not deploy in a crash. Failure to follow this instruction may result in serious personal injury or death in a crash and possibly violate vehicle safety standards.

NOTE: The air bag warning indicator illuminates when the restraints control module (RCM) fuse is removed and the ignition switch is ON. This is normal operation and does not indicate a supplemental restraint system (SRS) fault.

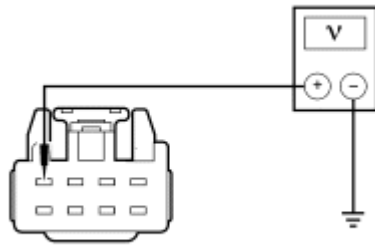
NOTE: The SRS must be fully operational and free of faults before releasing the vehicle to the customer.

H1 CHECK CIRCUIT 566 (DG) FOR AN OPEN

- Key in OFF position.
- Depower the SRS. Refer to Supplemental Restraint System (SRS) Depowering and Repowering in the General Procedures portion of **SUPPLEMENTAL RESTRAINT SYSTEM** article.
- Disconnect: Driver Seat Side Air Bag C367
- Connect restraint system diagnostic tool 418-133 to driver seat side air bag C367.
- Disconnect: Lumbar Control Switch C361

WARNING: Make sure no one is in the vehicle and there is nothing blocking or placed in front of any air bag module when the battery is connected. Failure to follow these instructions may result in serious personal injury in the event of an accidental deployment.

- Connect the battery ground cable. Refer to **BATTERY, MOUNTING AND CABLES** article.



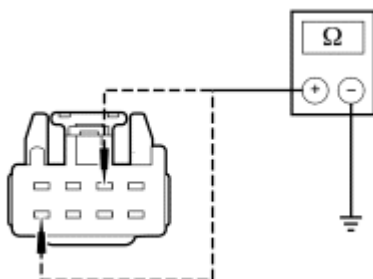
N0013787

Fig. 23: Checking Circuit 566 (DG) For Open
Courtesy of FORD MOTOR CO.

- Measure the voltage between lumbar control switch C361-4, circuit 566 (DG), harness side and ground.
- **Is the voltage greater than 10 volts?**
YES : Go to H2.
NO : VERIFY bussed electrical center (BEC) fuse 14 (30A) is OK. If OK, REPAIR the circuit. TEST the system for normal operation.

DISCONNECT the battery ground cable. DISCONNECT the restraint system diagnostic tool from driver seat side air bag module C367. CONNECT driver seat side air bag module C367. REPOWER the SRS. REFER to **SUPPLEMENTAL RESTRAINT SYSTEM** article.

H2 CHECK CIRCUIT 1205 (BK) FOR AN OPEN



N0013788

Fig. 24: Checking Circuit 1205 (BK) For Open
Courtesy of FORD MOTOR CO.

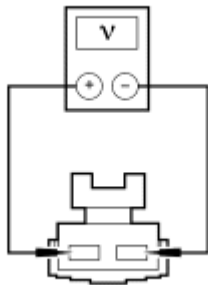
- Measure the resistance between lumbar control switch C361-2, circuit 1205 (BK), harness side and ground; and between lumbar control switch C361-8, circuit 1205 (BK), harness side and ground.
- **Are the resistances less than 5 ohms?**
YES : Go to H3.
NO : REPAIR the circuit. TEST the system for normal operation.

DISCONNECT the battery ground cable. DISCONNECT the restraint system diagnostic tool from

driver seat side air bag module C367. CONNECT driver seat side air bag module C367. REPOWER the SRS. REFER to **SUPPLEMENTAL RESTRAINT SYSTEM** article.

H3 CHECK THE LUMBAR MOTOR

- Connect: Lumbar Control Switch C361
- Disconnect: Power Lumbar Motor C366



N0040627

Fig. 25: Checking Lumbar Motor
Courtesy of FORD MOTOR CO.

- Measure the voltage between power lumbar motor C366-1, circuit 1097 (BN), harness side and power lumbar motor C366-2, circuit 1094 (PK), harness side.
- Operate the power lumbar control switch in both directions.
- **Is the voltage greater than 10 volts in both directions?**

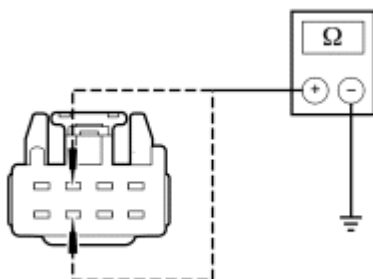
YES : INSTALL a new power lumbar assembly. REFER to **Lumbar Assembly**. TEST the system for normal operation.

DISCONNECT the battery ground cable. DISCONNECT the restraint system diagnostic tool from driver seat side air bag module C367. CONNECT driver seat side air bag module C367. REPOWER the SRS. REFER to **SUPPLEMENTAL RESTRAINT SYSTEM** article.

NO : Go to H4.

H4 CHECK CIRCUITS 1094 (PK) AND 1097 (BN) FOR A SHORT TO GROUND

- Disconnect: Lumbar Control Switch C361



N0013790

Fig. 26: Checking Circuit 1094 (PK) And Circuit 1097 (BN) For Short To Ground
Courtesy of FORD MOTOR CO.

- Measure the resistance between lumbar control switch C361-3, circuit 1097 (BN), harness side and ground; and between lumbar control switch C361-7, circuit 1094 (PK), harness side and ground.
- **Are the resistances greater than 10,000 ohms.**

YES : Go to H5.

NO : REPAIR the circuit. TEST the system for normal operation.

DISCONNECT the battery ground cable. DISCONNECT the restraint system diagnostic tool from driver seat side air bag module C367. CONNECT driver seat side air bag module C367. REPOWER the SRS. REFER to **SUPPLEMENTAL RESTRAINT SYSTEM** article.

H5 CHECK CIRCUITS 1094 (PK) AND 1097 (BN) FOR AN OPEN

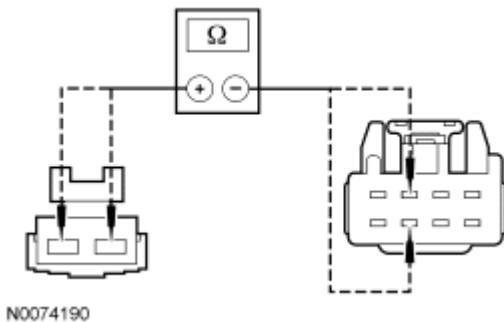


Fig. 27: Checking Circuits 1094 (PK) & 1097 (BN) For An Open
Courtesy of FORD MOTOR CO.

- Measure the resistance between power lumbar control switch C361-3, circuit 1097 (BN), harness side and power lumbar motor C366-1, circuit 1097 (BN), harness side; and between lumbar control switch C361-7, circuit 1094 (PK), harness side and power lumbar motor C366-2, circuit 1094 (PK), harness side.

- **Are the resistances less than 5 ohms?**

YES : INSTALL a new lumbar control switch. REFER to **Lumbar Control Switch**. TEST the system for normal operation.

DISCONNECT the battery ground cable. DISCONNECT the restraint system diagnostic tool from driver seat side air bag module C367. CONNECT driver seat side air bag module C367. REPOWER the SRS. REFER to **SUPPLEMENTAL RESTRAINT SYSTEM** article.

NO : REPAIR the circuit. TEST the system for normal operation.

DISCONNECT the battery ground cable. DISCONNECT the restraint system diagnostic tool from driver seat side air bag module C367. CONNECT driver seat side air bag module C367. REPOWER the SRS. REFER to **SUPPLEMENTAL RESTRAINT SYSTEM** article.

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Pinpoint Test I: The Heated Seat is Inoperative

Normal Operation

The heating ventilation air conditioning (HVAC) module includes the heated seat switch buttons and indicators. The heated seat system will function when the HVAC module is ON or OFF. There is a relay box located behind the headlamp switch area containing 2 micro relays for the driver and passenger heated seats. Battery voltage from circuit 1048 (LB/WH) is supplied to the coil and switch of the driver and passenger heated seat relays. When the ignition switch is ON and the engine running, ground is supplied to the driver or passenger heated seat relay coil from the respective heated seat switch in the HVAC to energize the relay. This closes the relay switch and voltage is supplied to the respective seat's cushion and backrest heater mats. The cushion and backrest heater mats are connected in series circuit with ground supplied to the backrest heater mat, completing the heater mat circuit to heat the seat. If the heated seat switch is on when the ignition switch is turned OFF, the heated seat switch will be on when the ignition switch is turned back ON.

This pinpoint test is intended to diagnose the following:

- Fuse(s)
- Wiring, terminals or connectors
- Heated seat switch (part of HVAC module)
- Heated seat relay
- Cushion heater mat
- Backrest heater mat

PINPOINT TEST I: THE HEATED SEATS ARE INOPERATIVE

I1 CHECK THE HEATED SEAT INDICATORS

- Key in ON position.
- Operate both heated switches on.
- **Do one or both heated seat switch indicators illuminate?**

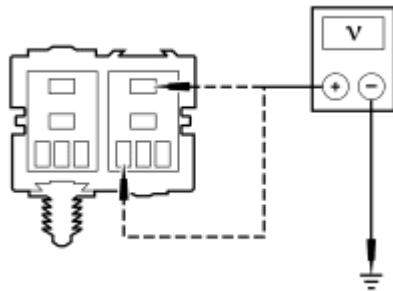
YES : If both indicators illuminate, go to I2

For driver seat only, go to **Pinpoint Test J**. For passenger seat only, go to **Pinpoint Test K**.

NO : Key OFF and DISASSEMBLE as necessary to disconnect all of the HVAC module electrical connectors. WAIT one minute to allow the system to reset and RECONNECT the electrical connectors. RETEST the system. If the heated seat indicator still does not illuminate, INSTALL a new HVAC module. REFER to **CLIMATE CONTROL** article. TEST the system for normal operation.

I2 CHECK THE HEATED SEAT POWER CIRCUITS

- Key in OFF position.
- Disconnect: Heated Seat Relay Driver or Passenger
- Key in ON position.



N0074687

Fig. 28: Checking Heated Seat Power Circuits
Courtesy of FORD MOTOR CO.

- Measure the voltage at heated seat relay socket pin 1, circuit 1048 (LB/WH), and ground; and between pin 3, circuit 1048 (LB/WH), and ground.
- **Are both voltages greater than 10 volts?**

YES : VERIFY the climate control system is operating correctly, REFER to **CLIMATE CONTROL SYSTEM - GENERAL INFORMATION AND DIAGNOSTICS** article.

NO : VERIFY bussed electrical center (BEC) fuse 66 (25A) is OK. If OK, REPAIR circuit 1048 (LB/WH). TEST the system for normal operation.

Pinpoint Test J: The Heated Seat is Inoperative - Driver Seat Does Not Heat But the Heated Seat Indicator Illuminates When Pressed

Normal Operation

The heating ventilation air conditioning (HVAC) module includes the heated seat switch buttons and indicators. The heated seat system will function when the HVAC module is ON or OFF. There is a relay box located behind the headlamp switch area containing 2 micro relays for the driver and passenger heated seats. Battery voltage from circuit 1048 (LB/WH) is supplied to the coil and switch side of the driver heated seat relay. When the ignition switch is ON and the engine running, ground is supplied to the driver heated seat relay coil from the driver heated seat switch in the HVAC to energize the relay. This closes the relay switch supplying voltage to driver seat cushion heater mat from circuit 1064 (YE/LB). The cushion and backrest heater mats are connected in series by circuit 1066 (GN/LB) and ground is supplied to the backrest heater mat circuit 1205 (BK), completing the heater mat circuit to heat the driver seat. If the heated seat switch is on when the ignition switch is turned OFF, the heated seat switch will be on when the ignition switch is turned back ON.

This pinpoint test is intended to diagnose the following:

- Wiring, terminals or connectors
- Heated seat switch (part of HVAC module)
- Heated seat relay
- Cushion heater mat
- Backrest heater mat

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INDICATOR ILLUMINATES WHEN PRESSED

WARNING: Remove restraint system diagnostic tools from the vehicle prior to road testing. If tools are not removed, the supplemental restraint system (SRS) device may not deploy in a crash. Failure to follow this instruction may result in serious personal injury or death in a crash and possibly violate vehicle safety standards.

NOTE: The air bag warning indicator illuminates when the restraints control module (RCM) fuse is removed and the ignition switch is ON. This is normal operation and does not indicate a supplemental restraint system (SRS) fault.

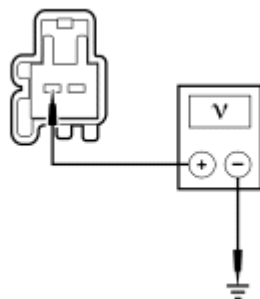
NOTE: The SRS must be fully operational and free of faults before releasing the vehicle to the customer.

J1 CHECK CIRCUIT 1064 (YE/LB) FOR VOLTAGE

- Key in OFF position.
- Depower the SRS. Refer to Supplemental Restraint System (SRS) Depowering and Repowering in the General Procedures portion of **SUPPLEMENTAL RESTRAINT SYSTEM** article.
- Disconnect: Driver Seat Side Air Bag C367
- Connect restraint system diagnostic tool 418-133 to driver seat side air bag C367.
- Disconnect: Driver Heated Seat Connector C3300

WARNING: Make sure no one is in the vehicle and there is nothing blocking or placed in front of any air bag module when the battery is connected. Failure to follow these instructions may result in serious personal injury in the event of an accidental deployment.

- Connect the battery ground cable. Refer to **BATTERY, MOUNTING AND CABLES** article.
- Key in ON position.



N0074694

Fig. 29: Checking Circuit 1064 (YE/LB) For Voltage
Courtesy of FORD MOTOR CO.

- Measure the voltage between driver heated seat C3300-1 circuit 1064 (YE/LB), harness side and ground.
- **Is the voltage greater than 10 volts when the heated seat switch is depressed and 0 volts when the switch is off?**
YES : Go to J6.
NO : Go to J2.

J2 CHECK THE HEATED SEAT RELAY

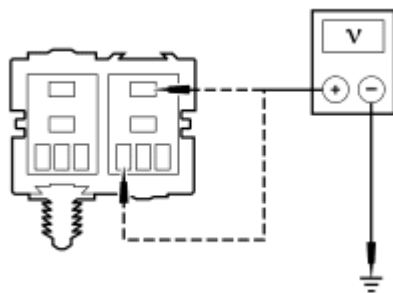
- Key in OFF position.
- Swap the passenger heated seat relay with the driver heated seat relay.
- Key in ON position.
- **Does the seat heat when the heated seat switch is depressed?**
YES : INSTALL a new heated seat relay. TEST the system for normal operation.

DISCONNECT the battery ground cable. DISCONNECT the restraint system diagnostic tool from driver seat side air bag module C367. CONNECT driver seat side air bag module C367. REPOWER the SRS. REFER to **SUPPLEMENTAL RESTRAINT SYSTEM** article.

NO : Go to J3.

J3 CHECK THE HEATED SEAT POWER CIRCUITS

- Key in OFF position.
- Disconnect: Heated Seat Relay (Driver)

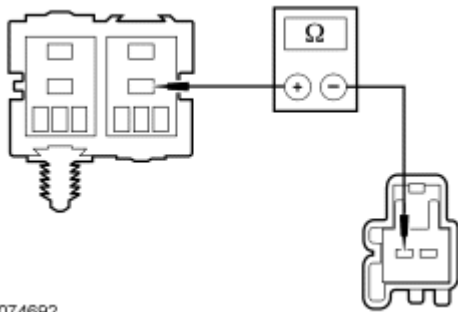


N0074687

Fig. 30: Checking Heated Seat Power Circuits
 Courtesy of FORD MOTOR CO.

- Measure the voltage at driver heated seat relay socket pin 1, circuit 1048 (LB/WH), and ground; and between pin 3, circuit 1048 (LB/WH), and ground.
- **Are both voltages greater than 10 volts?**
YES : Go to J4.
NO : REPAIR circuit 1048 (LB/WH). TEST the system for normal operation.

J4 CHECK CIRCUIT 1064 (YE/LB) FOR AN OPEN



N0074692

Fig. 31: Measuring Resistance Between Driver Heated Seat Relay Socket Pin 5, Circuit 1064 (YE/LB)

Courtesy of FORD MOTOR CO.

- Measure the resistance between driver heated seat relay socket pin 5, circuit 1064 (YE/LB), and driver cushion heater mat C3300-1 circuit 1064 (YE/LB), harness side.

- **Is the resistance less than 5 ohms?**

YES : Go to J5.

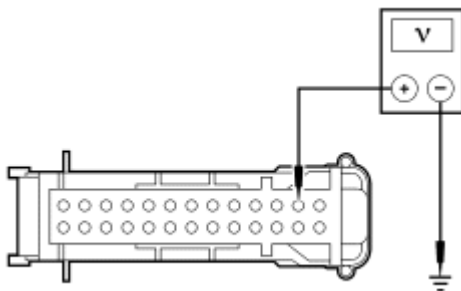
NO : REPAIR the circuit. TEST the system for normal operation.

DISCONNECT the battery ground cable. CONNECT driver seat side air bag C367.

REPOWER the SRS. REFER to **SUPPLEMENTAL RESTRAINT SYSTEM** article.

J5 CHECK THE HEATED SEAT REQUEST CIRCUIT

- Connect: Driver Heated Seat Relay
- Disconnect: HVAC module C294A



N0074693

Fig. 32: Measuring Voltage Between EMTC Module C294A-12, Circuit 581 (RD) & Ground

Courtesy of FORD MOTOR CO.

- Measure the voltage between HVAC module C294A-12, circuit 581 (RD), harness side and ground.

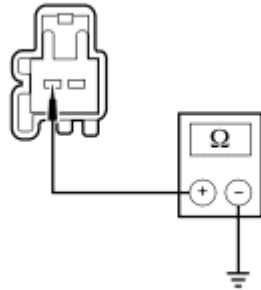
- **Is the voltages greater than 10 volts?**

YES : INSTALL a new HVAC module. REFER to **CLIMATE CONTROL** article.

NO : REPAIR circuit 581 (RD). TEST the system for normal operation.

J6 CHECK CIRCUIT 1205 (BK) FOR AN OPEN

- Key in OFF position.
- Disconnect: Driver Heated Seat Connector C3310



N0028225

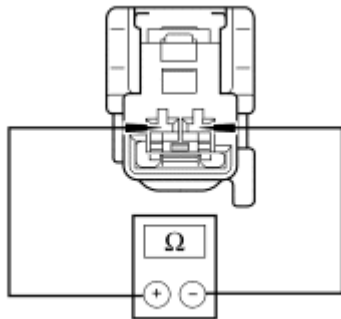
Fig. 33: Checking Circuit 1205 (BK) For An Open
Courtesy of FORD MOTOR CO.

- Measure the resistance between driver seat C3310-2 circuit 1205 (BK), harness side and ground.
- **Is the resistance less than 5 ohms?**

YES : Go to J7.

NO : REPAIR circuit 1205 (BK). TEST the system for normal operation.

DISCONNECT the battery ground cable. DISCONNECT the restraint system diagnostic tool from driver seat side air bag module C367. CONNECT driver seat side air bag module C367. REPOWER the SRS. REFER to **SUPPLEMENTAL RESTRAINT SYSTEM** article.

J7 CHECK THE CUSHION HEATER MAT FOR AN OPEN

A0073993

Fig. 34: Checking Cushion Heater Mat For An Open
Courtesy of FORD MOTOR CO.

- Measure the resistance between driver cushion heater mat C3300-1 and C3300-2 component side.
- **Is the resistance between 0.8 and 1.3 ohms?**

YES : Go to J8.

NO : INSTALL a new cushion heater mat. REFER to **Seat Cushion Cover - Front**. TEST the

system for normal operation.

DISCONNECT the battery ground cable. DISCONNECT the restraint system diagnostic tool from driver seat side air bag module C367. CONNECT driver seat side air bag module C367. REPOWER the SRS. REFER to **SUPPLEMENTAL RESTRAINT SYSTEM** article.

J8 CHECK THE BACKREST HEATER MAT FOR AN OPEN

- Disconnect: Driver Backrest Heater Mat C3310

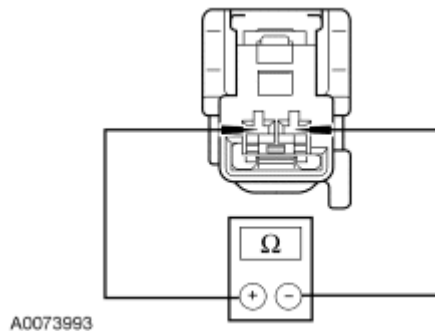


Fig. 35: Checking Backrest Heater Mat For An Open
Courtesy of FORD MOTOR CO.

- Measure the resistance between backrest heater mat C3310-1 and C3310-2 component side.
- **Is the resistance between 0.8 and 1.3 ohms?**

YES : REPAIR seat harness. TEST the system for normal operation.

DISCONNECT the battery ground cable. DISCONNECT the restraint system diagnostic tool from driver seat side air bag module C367. CONNECT driver seat side air bag module C367. REPOWER the SRS. REFER to **SUPPLEMENTAL RESTRAINT SYSTEM** article.

NO : INSTALL a new backrest heater mat. REFER to **Seat Cushion Cover - Front**. TEST the system for normal operation.

DISCONNECT the battery ground cable. DISCONNECT the restraint system diagnostic tool from driver seat side air bag module C367. CONNECT driver seat side air bag module C367. REPOWER the SRS. REFER to **SUPPLEMENTAL RESTRAINT SYSTEM** article.

Pinpoint Test K: The Heated Seat is Inoperative - Passenger Seat Does Not Heat But the Heated Seat Indicator Illuminates When Pressed

Normal Operation

The heating ventilation air conditioning (HVAC) module includes the heated seat switch buttons and indicators. The heated seat system will function when the HVAC module is ON or OFF. There is a relay box located behind the headlamp switch area containing 2 micro relays for the driver and passenger heated seats. Battery voltage from circuit 1048 (LB/WH) is supplied to the coil and switch side of the passenger heated seat relay. When the ignition switch is ON and the engine running, ground is supplied to the passenger heated seat relay

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coil from the passenger heated seat switch in the HVAC to energize the relay. This closes the relay switch supplying voltage to passenger seat cushion heater mat from circuit 2124 (YE/LB). The cushion and backrest heater mats are connected in series by circuit 2126 (GY/LB) and ground is supplied to the backrest heater mat circuit 1205 (BK), completing the heater mat circuit to heat the driver seat. If the heated seat switch is on when the ignition switch is turned OFF, the heated seat switch will be on when the ignition switch is turned back ON.

This pinpoint test is intended to diagnose the following:

- Wiring, terminals or connectors
- Heated seat switch (part of HVAC module)
- Heated seat relay
- Cushion heater mat
- Backrest heater mat

PINPOINT TEST K: THE HEATED SEAT IS INOPERATIVE - PASSENGER SEAT DOES NOT HEAT BUT THE HEATED SEAT INDICATOR ILLUMINATES WHEN PRESSED

WARNING: Remove restraint system diagnostic tools from the vehicle prior to road testing. If tools are not removed, the supplemental restraint system (SRS) device may not deploy in a crash. Failure to follow this instruction may result in serious personal injury or death in a crash and possibly violate vehicle safety standards.

CAUTION: Do not install a new heater mat on a front passenger seat cushion. If a new cushion heater mat is needed on the front passenger seat, an occupant classification sensor (OCS) service kit equipped with a heater mat must be installed. Failure to follow this instruction may result in incorrect operation of the OCS system. Refer to SUPPLEMENTAL RESTRAINT SYSTEM article for the OCS removal and installation procedure.

NOTE: The air bag warning indicator illuminates when the restraints control module (RCM) fuse is removed and the ignition switch is ON. This is normal operation and does not indicate a supplemental restraint system (SRS) fault.

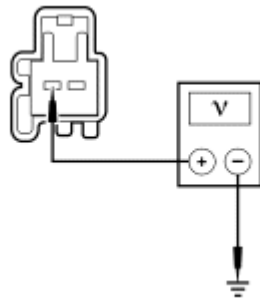
NOTE: The SRS must be fully operational and free of faults before releasing the vehicle to the customer.

K1 CHECK CIRCUIT 2124 (YE/LB) FOR VOLTAGE

- Key in OFF position.
- Depower the SRS. Refer to Supplemental Restraint System (SRS) Depowering and Repowering in the General Procedures portion of SUPPLEMENTAL RESTRAINT SYSTEM article.
- Disconnect: Passenger Seat Side Air Bag C337
- Connect restraint system diagnostic tool 418-133 to passenger seat side air bag C337.
- Disconnect: Passenger Heated Seat Connector C334

WARNING: Make sure no one is in the vehicle and there is nothing blocking or placed in front of any air bag module when the battery is connected. Failure to follow these instructions may result in serious personal injury in the event of an accidental deployment.

- Connect the battery ground cable. Refer to **BATTERY, MOUNTING AND CABLES** article.
- Key in ON position.



N0074694

Fig. 36: Checking Circuit 2124 (YE/LB) For Voltage
Courtesy of FORD MOTOR CO.

- Measure the voltage between passenger heated seat 334-1 circuit 2124 (YE/LB), harness side and ground.
- **Is the voltage greater than 10 volts when the heated seat switch is depressed and 0 volts when the switch is off?**

YES : Go to K6.

NO : Go to K2

K2 CHECK THE HEATED SEAT RELAY

- Key in OFF position.
- Swap the passenger heated seat relay with the driver heated seat relay.
- Key in ON position.
- **Does the seat heat when the heated seat switch is depressed?**
YES : INSTALL a new heated seat relay. TEST the system for normal operation.

DISCONNECT the battery ground cable. DISCONNECT the restraint system diagnostic tool from passenger seat side air bag module C337. CONNECT passenger seat side air bag module C337. REPOWER the SRS. REFER to **SUPPLEMENTAL RESTRAINT SYSTEM** article.

NO : Go to K3.

K3 CHECK THE HEATED SEAT POWER CIRCUITS

- Key in OFF position.
- Disconnect: Heated Seat Relay (Passenger)

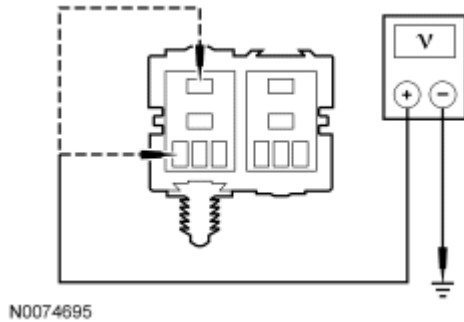


Fig. 37: Measuring Voltage At Passenger Heated Seat Relay Socket Pin 1, Circuit 1048 (LB/WH) & Ground
 Courtesy of FORD MOTOR CO.

- Measure the voltage at passenger heated seat relay socket pin 1, circuit 1048 (LB/WH), and ground; and between pin 3, circuit 1048 (LB/WH), and ground.

- **Are both voltages greater than 10 volts?**

YES : Go to K4.

NO : REPAIR circuit 1048 (LB/WH). TEST the system for normal operation.

K4 CHECK CIRCUIT 2124 (YE/LB) FOR AN OPEN

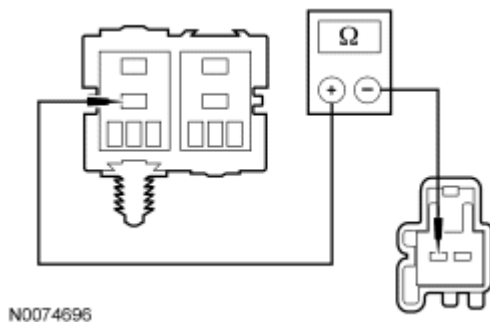


Fig. 38: Measuring Resistance Between Passenger Heated Seat Relay Socket Pin 5, Circuit 2124 (YE/LB)
 Courtesy of FORD MOTOR CO.

- Measure the resistance between passenger heated seat relay socket pin 5, circuit 2124 (YE/LB), and passenger cushion heater mat C334-1 circuit 2124 (YE/LB), harness side.

- **Is the resistance less than 5 ohms?**

YES : Go to K5.

NO : REPAIR the circuit TEST the system for normal operation.

DISCONNECT the battery ground cable. CONNECT passenger seat side air bag C337.

REPOWER the SRS. REFER to **SUPPLEMENTAL RESTRAINT SYSTEM** article.

K5 CHECK THE HEATED SEAT REQUEST CIRCUIT

- Connect: Passenger Heated Seat Relay
- Disconnect: HVAC module C294A

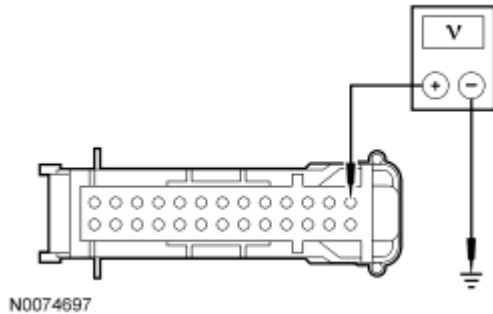


Fig. 39: Measuring Voltage Between EMTC Module C294A-13, Circuit 2119 (DG/VT) & Ground
Courtesy of FORD MOTOR CO.

- Measure the voltage between HVAC module C294A-13, circuit 2119 (DG/VT), harness side and ground.
- **Is the voltages greater than 10 volts?**
YES : INSTALL a new HVAC module. REFER to **CLIMATE CONTROL** article.
NO : REPAIR circuit 2119 (DG/VT). TEST the system for normal operation.

K6 CHECK CIRCUIT 1205 (BK) FOR AN OPEN

- Key in OFF position.
- Disconnect: Passenger Heated Seat Connector C335

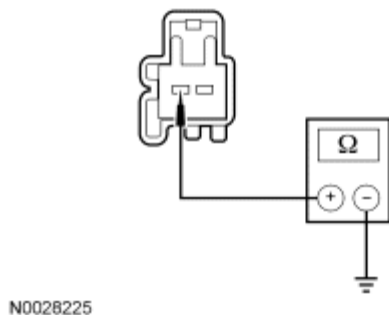


Fig. 40: Checking Circuit 1205 (BK) For An Open
Courtesy of FORD MOTOR CO.

- Measure the resistance between passenger seat C335-2 circuit 1205 (BK), harness side and ground.
- **Is the resistance less than 5 ohms?**
YES : Go to K7.
NO : REPAIR circuit 1205 (BK). TEST the system for normal operation.

DISCONNECT the battery ground cable. DISCONNECT the restraint system diagnostic tool from passenger seat side air bag module C337. CONNECT passenger seat side air bag module C337. REPOWER the SRS. REFER to **SUPPLEMENTAL RESTRAINT SYSTEM** article.

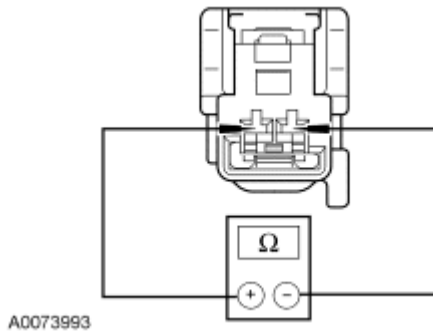
K7 CHECK THE CUSHION HEATER MAT FOR AN OPEN

Fig. 41: Checking Cushion Heater Mat For An Open
Courtesy of FORD MOTOR CO.

- Measure the resistance between passenger cushion heater mat C334-1 and C334-2 component side.
- **Is the resistance between 0.8 and 1.3 ohms?**

YES : Go to K8.

NO : INSTALL a new passenger cushion heater mat. REFER to **Seat Cushion Cover - Front**. TEST the system for normal operation.

DISCONNECT the battery ground cable. DISCONNECT the restraint system diagnostic tool from driver seat side air bag module C337. CONNECT driver seat side air bag module C337. REPOWER the SRS. REFER to **SUPPLEMENTAL RESTRAINT SYSTEM** article.

K8 CHECK THE BACKREST HEATER MAT FOR AN OPEN

- Disconnect: Passenger Backrest Heater Mat C335

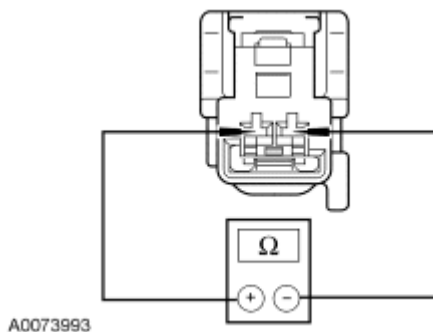


Fig. 42: Checking Backrest Heater Mat For An Open
Courtesy of FORD MOTOR CO.

- Measure the resistance between passenger backrest heater mat C335-1 and C335-2 component side.

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- **Is the resistance between 0.8 and 1.3 ohms?**

YES : REPAIR seat harness. TEST the system for normal operation.

DISCONNECT the battery ground cable. DISCONNECT the restraint system diagnostic tool from passenger seat side air bag module C337. CONNECT passenger seat side air bag module C337. REPOWER the SRS. REFER to **SUPPLEMENTAL RESTRAINT SYSTEM** article.

NO : INSTALL a new backrest heater mat. REFER to **Seat Cushion Cover - Front**. TEST the system for normal operation.

DISCONNECT the battery ground cable. DISCONNECT the restraint system diagnostic tool from passenger seat side air bag module C337. CONNECT passenger seat side air bag module C337. REPOWER the SRS. REFER to **SUPPLEMENTAL RESTRAINT SYSTEM** article.

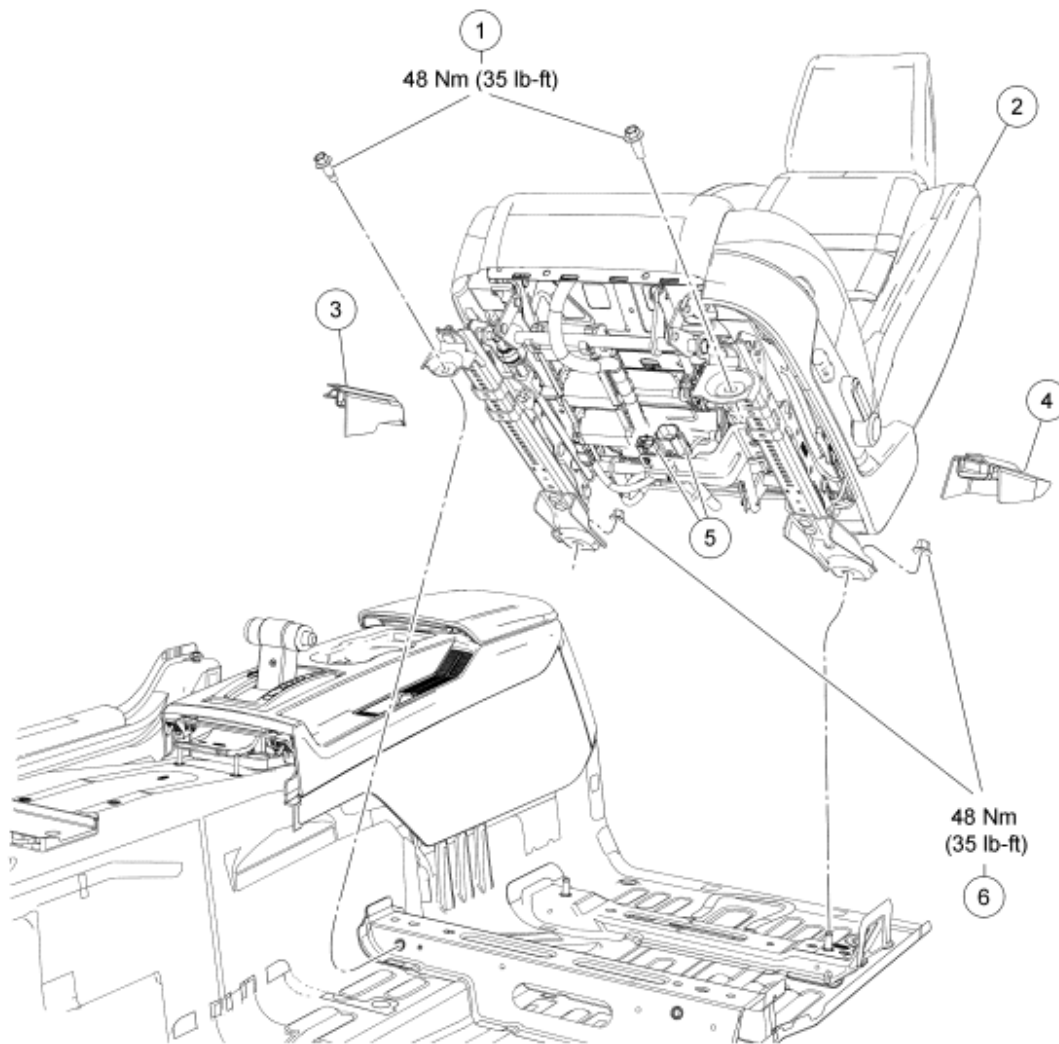
REMOVAL AND INSTALLATION

SEAT - FRONT

NOTE: LH shown, RH similar.

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N0069925

Fig. 43: Exploded View Of Front Seat With Torque Specifications
Courtesy of FORD MOTOR CO.

Item	Part Number	Description
1	-	Seat track-to-floor bolts
2	-	Front seat
3	618C84	Inboard seat track nut cover
4	618C82	Outboard seat track nut cover
5	-	Seat electrical connectors (part of 14A699)
6	N807939	Seat track-to-floor nuts

REMOVAL AND INSTALLATION

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WARNING: Always wear eye protection when servicing a vehicle. Failure to follow this instruction may result in serious personal injury.

WARNING: Never probe the electrical connectors on air bag, safety canopy or side air curtain modules. Failure to follow this instruction may result in the accidental deployment of these modules, which increases the risk of serious personal injury or death.

NOTE: The air bag warning indicator illuminates when the restraints control module (RCM) fuse is removed and the ignition switch is ON. This is normal operation and does not indicate a supplemental restraint system (SRS) fault.

NOTE: The SRS must be fully operational and free of faults before releasing the vehicle to the customer.

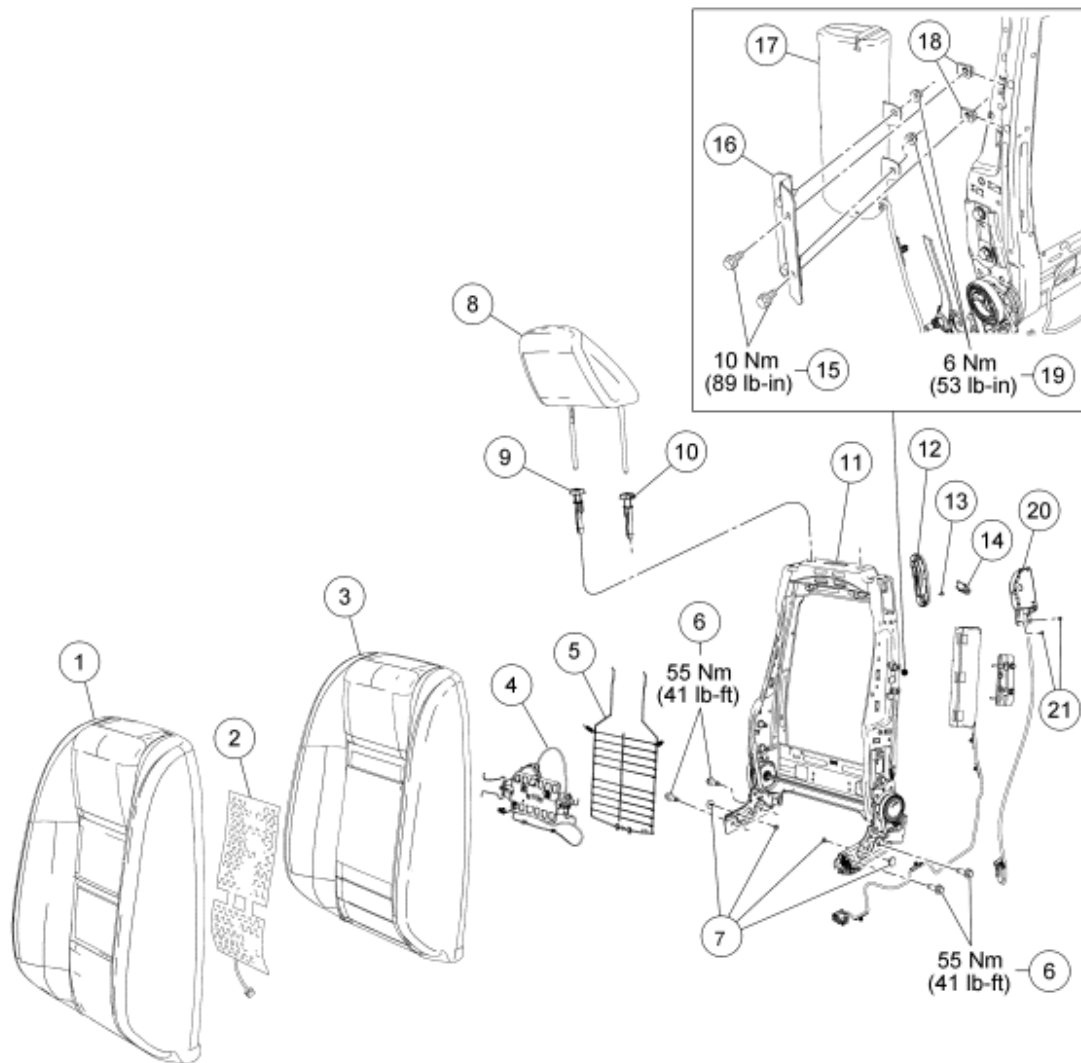
1. Position the seat to gain access to the seat track-to-floor nuts and bolts.
2. Depower the SRS. For additional information, refer to Supplemental Restraint System (SRS) Depowering and Repowering in the General Procedures portion of **SUPPLEMENTAL RESTRAINT SYSTEM** article.
3. Remove the 2 seat track nut covers.
4. Remove the 2 seat track-to-floor nuts.
 - To install, tighten to 48 Nm (35 lb-ft).
5. Remove the 2 seat track-to-floor bolts.
 - To install, tighten to 48 Nm (35 lb-ft).
6. Disconnect the side air bag module and main seat harness electrical connectors and remove the seat.
7. To install, reverse the removal procedure.
8. Repower the SRS. For additional information, refer to Supplemental Restraint System (SRS) Depowering and Repowering in the General Procedures portion of **SUPPLEMENTAL RESTRAINT SYSTEM** article.

SEAT - EXPLODED VIEW, FRONT

NOTE: LH shown, RH similar.

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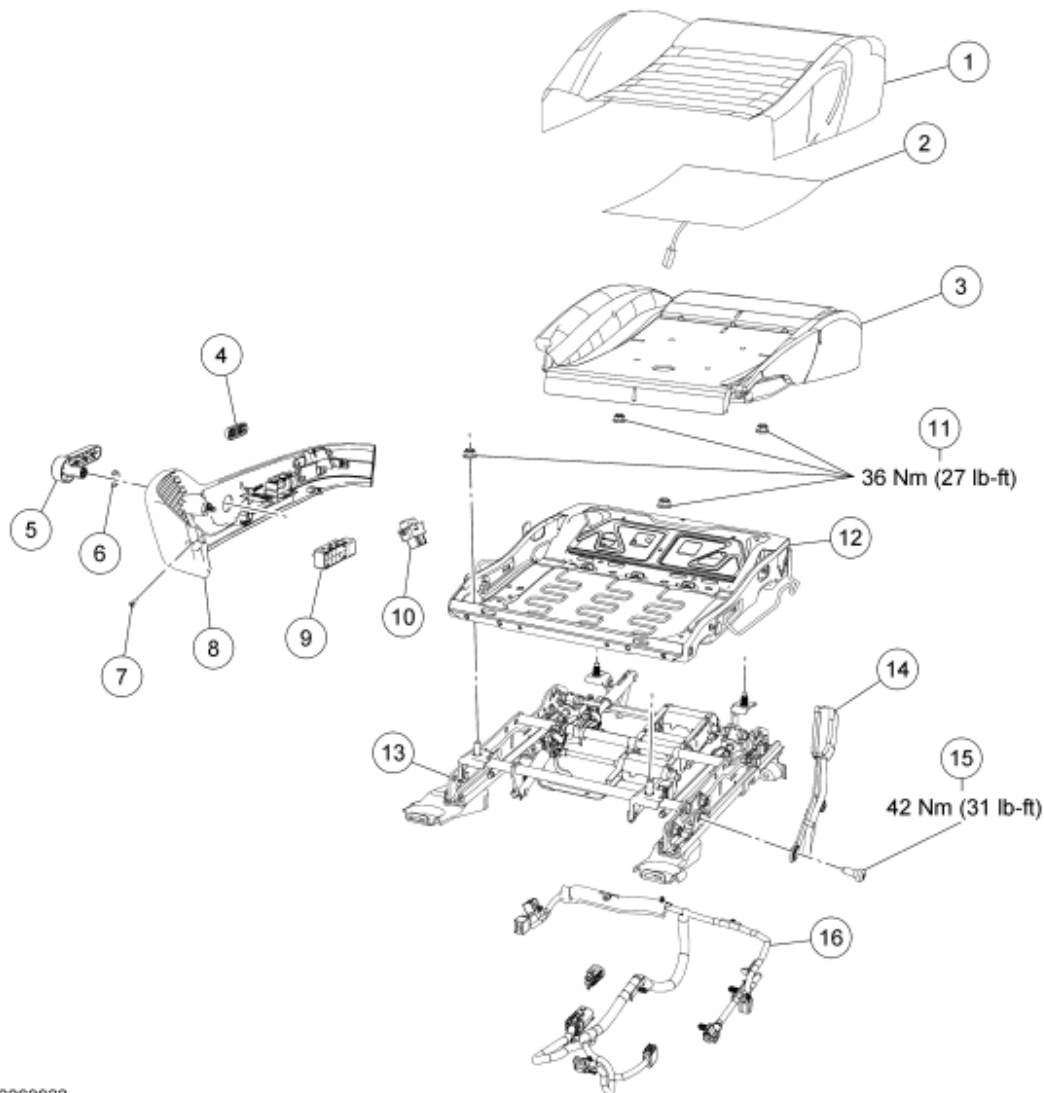
Fig. 44: Exploded View Of Front Seat Backrest With Torque Specifications
Courtesy of FORD MOTOR CO.

Item	Part Number	Description
1	64417	Backrest trim cover
2	14D696	Heater mat (if equipped)
3	64810	Backrest foam pad
4	65500	Power lumbar assembly (driver side only) (if equipped)
5	63226	Static lumbar
6	W500633	Recliner-to-cushion frame bolts
7	-	Pin-type retainers
8	611A08	Head restraint assembly
9	022537	Inboard head restraint guide
10	020617	Outboard head restraint guide

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11	61018	Backrest frame
12	62672	Backrest recliner release bezel
13	W506943	Backrest recliner release bezel screw
14	62762	Backrest recliner release handle
15	N605892	Side air bag module bolts
16	611D79	Side air bag module bracket
17	611D11	Side air bag module
18	W520822	U-nuts
19	-	Side air bag module-to-bracket nuts (part of 611D11)
20	62432	Backrest recliner release
21	W711024	Backrest recliner release rivets



N0069922

Fig. 45: Exploded View Of Driver Power Front Seat Cushion With Torque Specifications
Courtesy of FORD MOTOR CO.

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Item	Part Number	Description
1	62901	Cushion trim cover
2	14D698	Heater mat (if equipped)
3	-	Cushion foam pad
4	-	Seat control switch knob (if equipped)
5	62622	Recliner handle
6	-	Recliner handle clip (part of 62622)
7	-	Cushion side shield screw
8	62187	Cushion side shield
9	14A701	Seat control switch
10	619A74	Lumbar control switch (if equipped)
11	W520113	Cushion frame-to-seat-track nuts
12	63101	Cushion frame
13	61701	Power seat track
14	61203	Safety belt buckle
15	-	Safety belt buckle bolt (part of 61203)
16	14A699	Driver seat wire harness

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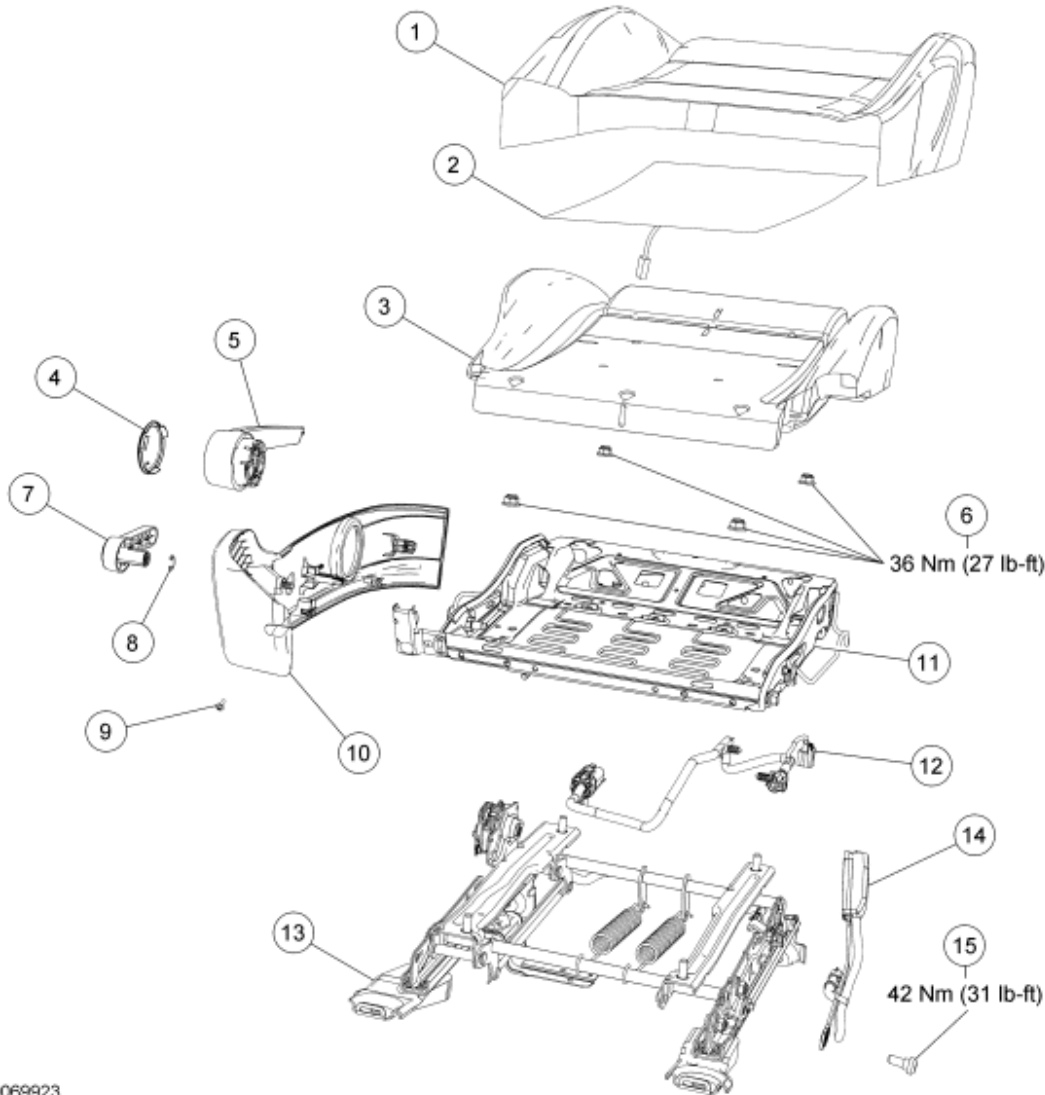


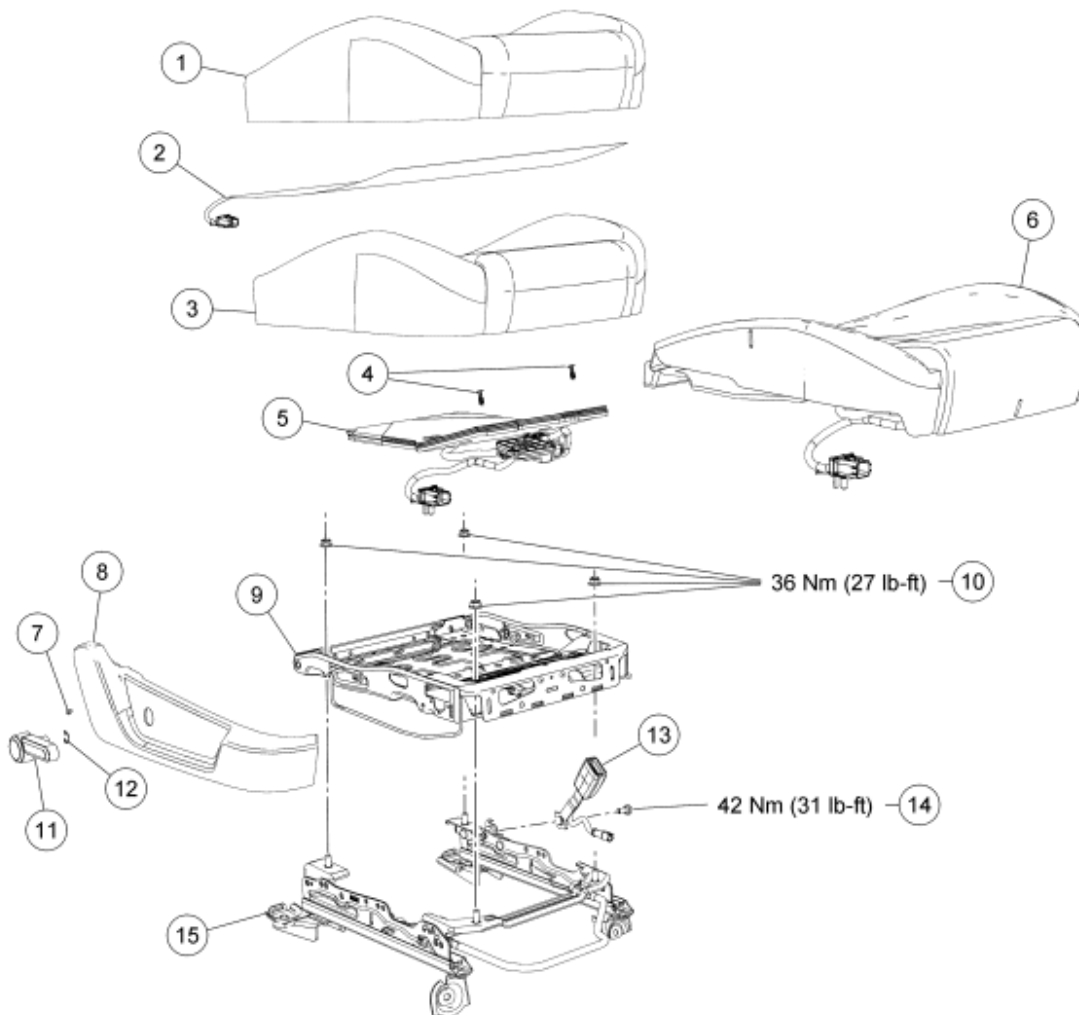
Fig. 46: Exploded View Of Driver Manual Front Seat Cushion With Torque Specifications
Courtesy of FORD MOTOR CO.

Item	Part Number	Description
1	62901	Cushion trim cover
2	14D698	Heater mat (if equipped)
3	-	Cushion foam pad
4	62768	Manual height adjust handle center cover (if equipped)
5	61753	Manual height adjust handle (if equipped)
6	W520113	Cushion frame-to-seat-track nuts
7	62622	Recline handle
8	-	Recline handle clip (part of 62622)
9	-	Cushion side shield screw

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10	62187	Cushion side shield
11	63101	Cushion frame
12	14A699	Driver seat wire harness
13	61701	Seat track
14	61203	Safety belt buckle
15	-	Safety belt buckle bolt (part of 61203)



N0069924

Fig. 47: Exploded View Of Passenger Manual Front Seat Cushion With Torque Specifications
 Courtesy of FORD MOTOR CO.

Item	Part Number	Description
1	62900	Cushion trim cover
2	-	Heater mat (part of 632A22) (if equipped)
3	-	Cushion foam pad (part of OEM occupant

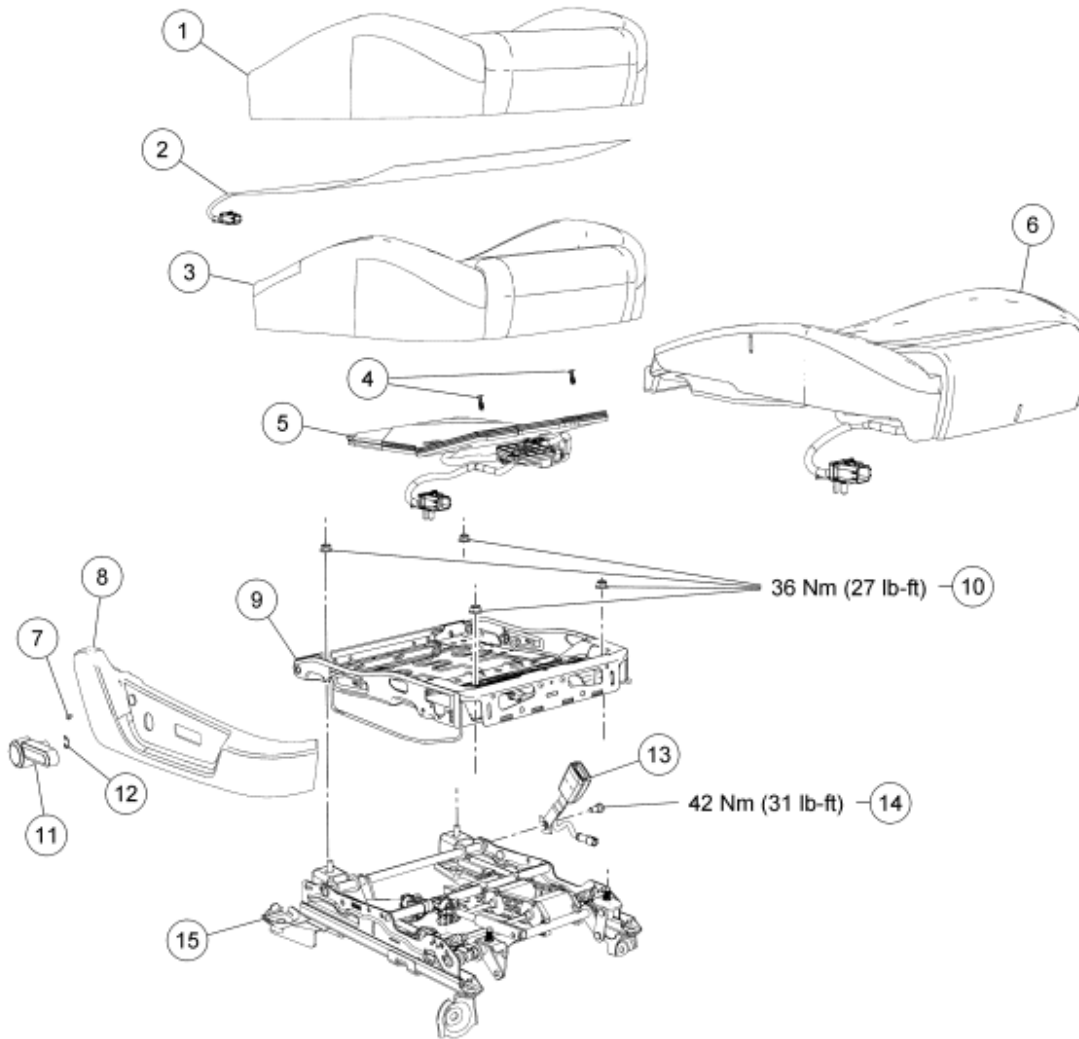
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		classification sensor [OCS])
4	-	Pin-type retainers (part of OEM OCS)
5	-	OEM OCS
6	632A22	OCS service kit
7	-	Side shield screw
8	62186	Side shield
9	63100	Cushion frame
10	W520113	Cushion frame-to-seat-track nuts
11	62622	Recline handle
12	-	Recline handle clip (part of 62622)
13	61203	Safety belt buckle
14	-	Safety belt buckle bolt (part of 61203)
15	618B46	Manual seat track

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N0055518

Fig. 48: Exploded View Of Passenger Power Front Seat Cushion With Torque Specifications
Courtesy of FORD MOTOR CO.

Item	Part Number	Description
1	62900	Cushion trim cover
2	-	Heater mat (part of 632A22) (if equipped)
3	-	Cushion foam pad (part of OEM occupant classification sensor [OCS])
4	-	Pin-type retainers (part of OEM OCS)
5	-	OEM OCS
6	632A22	OCS service kit
7	-	Side shield screw
8	62186	Side shield
9	63100	Cushion frame

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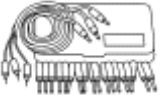
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10	W520113	Cushion frame-to-seat-track nuts
11	62622	Recline handle
12	-	Recline handle clip (part of 62622)
13	61203	Safety belt buckle
14	-	Safety belt buckle bolt (part of 61203)
15	61701	Power seat track

1. For additional information, refer to the procedures.

SEAT BACKREST - FRONT

Special Tools

Illustration	Tool Name	Tool Number
 ST1138-A	Vehicle Communication Module (VCM) and Integrated Diagnostic System (IDS)	software with appropriate hardware, or equivalent scan tool

REMOVAL AND INSTALLATION

WARNING: Always wear eye protection when servicing a vehicle. Failure to follow this instruction may result in serious personal injury.

WARNING: Never probe the electrical connectors on air bag, safety canopy or side air curtain modules. Failure to follow this instruction may result in the accidental deployment of these modules, which increases the risk of serious personal injury or death.

CAUTION: To prevent system failure, it is necessary to carry out the occupant classification sensor (OCS) system reset when a front passenger seat cushion is disassembled, a new trim cover installed or an OCS system service kit is installed. A scan tool is used to carry out the OCS system reset command.

NOTE: The air bag warning indicator illuminates when the restraints control module (RCM) fuse is removed and the ignition switch is ON. This is normal operation and does not indicate a supplemental restraint system (SRS) fault.

NOTE: The SRS must be fully operational and free of faults before releasing the vehicle to the customer.

NOTE: If a driver or passenger seat backrest heater mat is faulty, a new seat backrest foam pad must be installed with the heater mat. Do not reuse the original seat backrest foam pad.

All seats

1. Remove the front seat. For additional information, refer to Seat - Front.
2. Remove the clip and recline handle.

Driver seat with manual height adjust

3. Remove the manual height adjust handle center cover.
4. Remove the 2 screws and manual height adjust handle.

All seats

CAUTION: Inspect the cushion side shield retaining clips for damage. Install new retainers if damage is present.

5. Remove the screw at the rear of the cushion side shield. Release the retaining clips and pin-type retainer and separate the side shield.
 - Vehicles with a manual seat, remove the cushion side shield.
6. Separate the side air bag module electrical connector and the wire harness pin-type retainers from the seat track bracket and cushion frame.

Driver seat with power lumbar and heated seats

NOTE: Note the harness routing for installation.

7. Release the cushion trim cover rear lower J-clip and disconnect the power lumbar and heated seat cushion electrical connector and separate the connectors from the seat cushion frame.

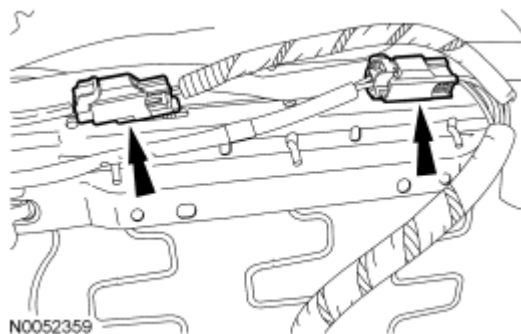


Fig. 49: Locating Cushion Trim Cover Rear Lower J-Clip
Courtesy of FORD MOTOR CO.

NOTE: Note the harness routing for installation.

8. Disconnect the backrest heated seat electrical connector and separate it from the bottom of the seat cushion frame.

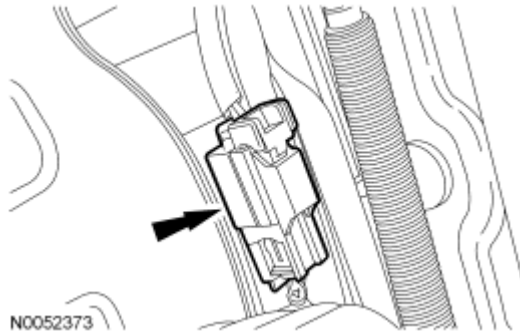


Fig. 50: Locating Backrest Heated Seat Electrical Connector
Courtesy of FORD MOTOR CO.

Passenger heated seat

NOTE: Note the harness routing for installation.

9. Release the cushion cover rear J-clip and disconnect the backrest heated seat electrical connector and detach the connector from the seat cushion frame.

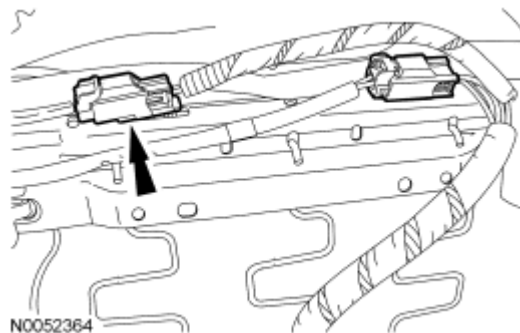


Fig. 51: Locating Cushion Trim Cover Rear Lower J-Clip
Courtesy of FORD MOTOR CO.

All seats

10. Remove the 2 outboard recliner-to-cushion frame bolts.
 - To install, tighten to 55 Nm (41 lb-ft).
11. At the rear inboard side of the seat, release the cushion trim cover flap from the cushion frame bracket.
12. Remove the 2 inboard recliner-to-cushion frame bolts and remove the backrest.
 - To install, tighten to 55 Nm (41 lb-ft).

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13. To install, reverse the removal procedure.
14. Install the seat. For additional information, refer to Seat - Front.
15. Repower the SRS. **If the passenger seat has been serviced, do not prove out the SRS at this time.** For additional information, refer to Supplemental Restraint System (SRS) Depowering and Repowering in the General Procedures portion of SUPPLEMENTAL RESTRAINT SYSTEM article.

Passenger seat

WARNING: Install a new occupant classification sensor (OCS) system service kit as a complete assembly. Never install only part of the kit components. Failure to follow this instruction may result in incorrect operation of the OCS system and increases the risk of serious personal injury or death in a crash.

WARNING: Make sure the front passenger seat repair is complete, the seat and all attached components (head restraint, seat side shield, etc.) are correctly assembled, and the seat is correctly installed to the vehicle before carrying out the System Reset. Failure to follow these instructions may result in incorrect operation of the occupant classification sensor (OCS) system and increases the risk of serious personal injury or death in a crash.

CAUTION: To prevent system failure, it is necessary to carry out the occupant classification sensor (OCS) system reset when a front passenger seat cushion is disassembled, a new trim cover installed or an OCS system service kit is installed. A scan tool is used to carry out the OCS system reset command.

CAUTION: To prevent system failure, the following precautions must be taken before carrying out the occupant classification sensor (OCS) system reset:

- Make sure the voltage to the occupant classification system module (OCSM) is above 8.0 volts and less than 18.0 volts.
- Make sure the OCS system is not at a temperature below 6°C (42°F) or above 36°C (97°F) when initiating the OCS reset process. If the vehicle has been exposed to extreme cold or hot temperatures, the vehicle must be exposed and kept at a temperature within the limits, 6°C to 36°C (42°F to 97°F) for a minimum of 30 minutes.
- Make sure nothing is present on the passenger seat before carrying out the OCS system reset and nothing is placed on the seat during the process.
- Make sure a minimum 8-second time period has passed after

cycling the ignition switch ON before the carrying out the OCS system reset process.

NOTE: **If the first attempt to carry out the occupant classification sensor (OCS) system reset is unsuccessful, a second attempt must be made. If the second attempt is unsuccessful, a new OCS system service kit must be installed.**

- 16. Carry out the OCS system reset active command.
- 17. Cycle the ignition switch from ON to OFF.

NOTE: **The ignition switch must be cycled after the OCS system reset.**

- 18. Cycle the ignition switch from OFF to ON.

All seats

- 19. Prove out the SRS as follows:

Turn the ignition key from ON to OFF. Wait 10 seconds, then turn the key back to ON and visually monitor the air bag warning indicator with the air bag modules installed. The air bag warning indicator will light continuously for approximately 6 seconds and then turn off. If an air bag SRS fault is present, the air bag warning indicator will:

- fail to light.
- remain lit continuously.
- flash at a 5Hz rate (RCM not configured).

The air bag warning indicator might not light until approximately 30 seconds after the ignition switch has been turned from the OFF to the ON position. This is the time required for the RCM to complete the testing of the SRS. If the air bag warning indicator is inoperative and a SRS fault exists, a chime will sound in a pattern of 5 sets of 5 beeps. If this occurs, the air bag warning indicator and any SRS fault discovered must be diagnosed and repaired.

Clear all continuous DTCs from the RCM using a scan tool.

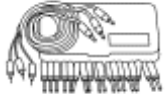
SEAT TRACK - MANUAL

Special Tools

Illustration	Tool Name	Tool Number
	Vehicle Communication Module (VCM) and Integrated Diagnostic	software with appropriate

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ST1138-A

System (IDS)

hardware, or equivalent scan tool

REMOVAL AND INSTALLATION

CAUTION: To prevent system failure, it is necessary to carry out the occupant classification sensor (OCS) system reset when a front passenger seat cushion is disassembled, a new trim cover installed or an OCS system service kit is installed. A scan tool is used to carry out the OCS system reset command.

NOTE: The air bag warning indicator illuminates when the restraints control module (RCM) fuse is removed and the ignition switch is ON. This is normal operation and does not indicate a supplemental restraint system (SRS) fault.

NOTE: The SRS must be fully operational and free of faults before releasing the vehicle to the customer.

All seats

1. Remove the front seat. For additional information, refer to [Seat - Front](#).
2. Remove the clip and recline handle.

Driver seat with manual height adjust

3. Remove the manual height adjust handle center cover.
4. Remove the 2 screws and manual height adjust handle.

All seats

5. Remove the screw at the rear of the cushion side shield. Pull out on the side of the cushion side shield, release the retaining clips and pin-type retainer and remove the side shield.

NOTE: Note wire harness routing for installation.

6. Separate the side air bag module electrical connector and wire harness pin-type retainers from the manual seat track bracket.
7. Release all cushion trim cover-to-cushion frame retainers.

NOTE: Note wire harness routing for installation.

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8. Disconnect the safety belt buckle switch and separate the pin-type retainers from the seat track.

NOTE: **Note wire harness routing for installation.**

9. Separate the main seat electrical connector from the manual seat track.

Driver seat

NOTE: **Note wire harness routing for installation.**

10. Disconnect the seat position sensor and separate the pin-type retainer.

All seats

11. Remove the 4 nuts and manual seat track.
 - Lift the cushion foam pad to access the manual seat track nuts.
 - To install, tighten to 36 Nm (27 lb-ft).
12. Remove the bolt and safety belt buckle.
 - To install, tighten to 42 Nm (31 lb-ft).
13. To install, reverse the removal procedure.
14. Install the seat. For additional information, refer to Seat - Front.
15. Repower the SRS. **If a passenger seat has been serviced, do not prove out the SRS at this time.** For additional information, refer to Supplemental Restraint System (SRS) Depowering and Repowering in the General Procedures portion of SUPPLEMENTAL RESTRAINT SYSTEM article.

Passenger seat

WARNING: Install a new occupant classification sensor (OCS) system service kit as a complete assembly. Never install only part of the kit components. Failure to follow this instruction may result in incorrect operation of the OCS system and increases the risk of serious personal injury or death in a crash.

WARNING: Make sure the front passenger seat repair is complete, the seat and all attached components (head restraint, seat side shield, etc.) are correctly assembled, and the seat is correctly installed to the vehicle before carrying out the System Reset. Failure to follow these instructions may result in incorrect operation of the occupant classification sensor (OCS) system and increases the risk of serious personal injury or death in a crash.

CAUTION: To prevent system failure, it is necessary to carry out the occupant classification sensor (OCS) system reset when a front passenger

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seat cushion is disassembled, a new trim cover installed or an OCS service kit is installed. A scan tool is used to carry out the OCS system reset command.

CAUTION: To prevent system failure, the following precautions must be taken before carrying out the occupant classification sensor (OCS) system reset:

- Make sure the voltage to the occupant classification system module (OCSM) is above 8.0 volts and less than 18.0 volts.
- Make sure the OCS system is not at a temperature below 6°C (42°F) or above 36°C (97°F) when initiating the OCS system reset process. If the vehicle has been exposed to extreme cold or hot temperatures, the vehicle must be exposed and kept at a temperature within the limits, 6°C to 36°C (42°F to 97°F) for a minimum of 30 minutes.
- Make sure nothing is present on the passenger seat before carrying out the OCS system reset and nothing is placed on the seat during the process.
- Make sure a minimum 8-second time period has passed after cycling the ignition switch ON before the carrying out the OCS system reset process.

NOTE: If the first attempt to carry out the occupant classification sensor (OCS) system reset is unsuccessful, a second attempt must be made. If the second attempt is unsuccessful, a new OCS system service kit must be installed.

16. Carry out the OCS system reset active command.
17. Cycle the ignition switch from ON to OFF.

NOTE: The ignition switch must be cycled after the OCS system reset.

18. Cycle the ignition switch from OFF to ON.

All seats

19. Prove out the SRS as follows:

Turn the ignition key from ON to OFF. Wait 10 seconds, then turn the key back to ON and visually monitor the air bag warning indicator with the air bag modules installed. The air bag warning indicator will light continuously for approximately 6 seconds and then turn off. If an air bag SRS fault is present, the air bag warning indicator will:

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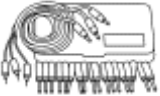
- fail to light.
- remain lit continuously.
- flash at a 5Hz rate (RCM not configured).

The air bag warning indicator might not light until approximately 30 seconds after the ignition switch has been turned from the OFF to the ON position. This is the time required for the RCM to complete the testing of the SRS. If the air bag warning indicator is inoperative and a SRS fault exists, a chime will sound in a pattern of 5 sets of 5 beeps. If this occurs, the air bag warning indicator and any SRS fault discovered must be diagnosed and repaired.

Clear all continuous DTCs from the RCM using a scan tool.

SEAT TRACK - POWER

Special Tools

Illustration	Tool Name	Tool Number
 ST1138-A	Vehicle Communication Module (VCM) and Integrated Diagnostic System (IDS)	software with appropriate hardware, or equivalent scan tool

REMOVAL AND INSTALLATION

CAUTION: To prevent system failure, it is necessary to carry out the occupant classification sensor (OCS) system reset when a front passenger seat cushion is disassembled, a new trim cover installed or an OCS system service kit is installed. A scan tool is used to carry out the OCS system reset command.

NOTE: The air bag warning indicator illuminates when the restraints control module (RCM) fuse is removed and the ignition switch is ON. This is normal operation and does not indicate a supplemental restraint system (SRS) fault.

NOTE: The SRS must be fully operational and free of faults before releasing the vehicle to the customer.

All seats

1. Remove the front seat. For additional information, refer to Seat - Front.
2. Remove the clip and recline handle.
3. Remove the screw at the rear of the cushion side shield. Pull out on the side of the cushion side shield,

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release the retaining clips and pin-type retainer and separate the side shield.

Driver seat with manual height adjust

4. Remove the manual height adjust handle center cover.
5. Remove the 2 screws and manual height adjust handle.

Driver seat

NOTE: **Note wire harness routing for installation.**

6. Disconnect the seat position sensor and separate the pin-type retainer.

All seats

NOTE: **Note wire harness routing for installation.**

7. Separate the side air bag module electrical connector and wire harness from the power seat track bracket.
8. Release the cushion trim cover rear J-clip, disconnect the power lumbar electrical connector and separate it from the cushion frame.

NOTE: **Note wire harness routing for installation.**

9. Disconnect the power seat track motor electrical connector, separate the main seat electrical connector and wire harness from the power seat track bracket and position the wire harness aside.

NOTE: **Note wire harness routing for installation.**

10. Disconnect the safety belt buckle switch and separate the pin-type retainer from the seat track.
11. Release all cushion trim cover to cushion frame retainers.
12. Remove the 4 nuts and power seat track.
 - Lift the cushion foam pad to access the power seat track nuts.
 - To install, tighten to 36 Nm (27 lb-ft).
13. Remove the bolts and safety belt buckle and bracket.
 - To install, tighten to 42 Nm (31 lb-ft).
14. To install, reverse the removal procedure.
15. Install the seat. For additional information, refer to **Seat - Front**.
16. Repower the SRS. **If the passenger seat has been serviced, do not prove out the SRS at this time.** For additional information, refer to Supplemental Restraint System (SRS) Depowering and Repowering in the General Procedures portion of **SUPPLEMENTAL RESTRAINT SYSTEM** article.

Passenger seat

WARNING: Install a new occupant classification sensor (OCS) system service kit as a complete assembly. Never install only part of the kit components. Failure to follow this instruction may result in incorrect operation of the OCS system and increases the risk of serious personal injury or death in a crash.

WARNING: Make sure the front passenger seat repair is complete, the seat and all attached components (head restraint, seat side shield, etc.) are correctly assembled, and the seat is correctly installed to the vehicle before carrying out the System Reset. Failure to follow these instructions may result in incorrect operation of the occupant classification sensor (OCS) system and increases the risk of serious personal injury or death in a crash.

CAUTION: To prevent system failure, it is necessary to carry out the occupant classification sensor (OCS) system reset when a front passenger seat cushion is disassembled, a new trim cover installed or an OCS system service kit is installed. A scan tool is used to carry out the OCS system reset command.

CAUTION: To prevent system failure, the following precautions must be taken before carrying out the occupant classification sensor (OCS) system reset:

- Make sure the voltage to the occupant classification system module (OCSM) is above 8.0 volts and less than 18.0 volts.
- Make sure the OCS is not at a temperature below 6°C (42°F) or above 36°C (97°F) when initiating the OCS system reset process. If the vehicle has been exposed to extreme cold or hot temperatures, the vehicle must be exposed and kept at a temperature within the limits, 6°C to 36°C (42°F to 97°F) for a minimum of 30 minutes.
- Make sure nothing is present on the passenger seat before carrying out the OCS system reset and nothing is placed on the seat during the process.
- Make sure a minimum 8-second time period has passed after cycling the ignition switch ON before the carrying out the OCS system reset process.

NOTE: If the first attempt to carry out the occupant classification sensor (OCS) system reset is unsuccessful, a second attempt must be made. If the second attempt is unsuccessful, a new OCS system service kit must be installed.

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18. Cycle the ignition switch from ON to OFF.

NOTE: The ignition switch must be cycled after the OCS system reset.

19. Cycle the ignition switch from OFF to ON.

All seats

20. Prove out the SRS as follows:

Turn the ignition key from ON to OFF. Wait 10 seconds, then turn the key back to ON and visually monitor the air bag warning indicator with the air bag modules installed. The air bag warning indicator will light continuously for approximately 6 seconds and then turn off. If an air bag SRS fault is present, the air bag warning indicator will:

- fail to light.
- remain lit continuously.
- flash at a 5Hz rate (RCM not configured).

The air bag warning indicator might not light until approximately 30 seconds after the ignition switch has been turned from the OFF to the ON position. This is the time required for the RCM to complete the testing of the SRS. If the air bag warning indicator is inoperative and a SRS fault exists, a chime will sound in a pattern of 5 sets of 5 beeps. If this occurs, the air bag warning indicator and any SRS fault discovered must be diagnosed and repaired.

Clear all continuous DTCs from the RCM using a scan tool.

SEAT BACKREST COVER - FRONT

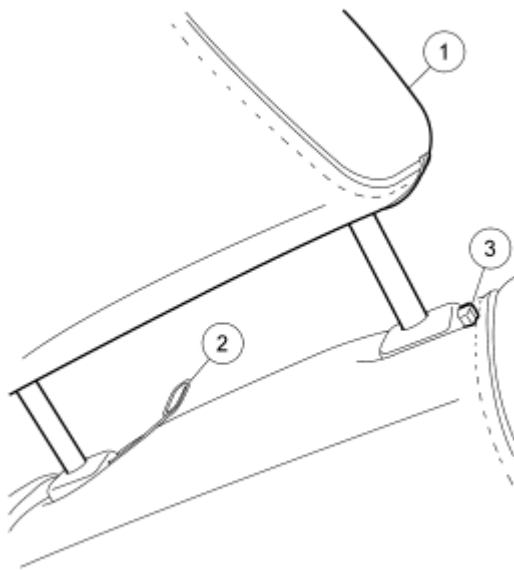
REMOVAL AND INSTALLATION

WARNING: Front seat backrest trim covers installed on seats equipped with seat side air bags cannot be repaired. A new trim cover must be installed. Cleaning is permissible. Failure to follow these instructions may result in the seat side air bag module deploying incorrectly and increase the risk of serious personal injury or death in a crash.

NOTE: The air bag warning indicator illuminates when the restraints control module (RCM) fuse is removed and the ignition switch is ON. This is normal operation and does not indicate a supplemental restraint system (SRS) fault.

NOTE: The SRS must be fully operational and free of faults before releasing the vehicle to the customer.

1. Remove the front seat. For additional information, refer to **Seat - Front**.
2. Remove the front seat backrest. For additional information, refer to **Seat Backrest - Front**.
3. Remove the head restraint.
 1. Position the head restraint as high as it will go.
 2. Using an appropriate tool, push through the hole on the inboard side of the head restraint guide and release the head restraint.
 - Hold the head restraint up so it does not engage back into the head restraint guide.
 3. Release the head restraint guide on the other side and remove the head restraint.



N0015495

Fig. 52: Identifying Head Restraint
Courtesy of FORD MOTOR CO.

4. Remove the pin-type retainers attaching the backrest trim cover to the inboard and outboard recliners.



N0050344

Fig. 53: Locating Plastic Rivets
Courtesy of FORD MOTOR CO.

5. Remove the backrest recliner release bezel screw. Slide down, pull and remove the backrest recliner release bezel and backrest recliner release handle.
6. Release the outer J-strip at the bottom of the backrest trim cover.
7. Detach the harness wires from the backrest cover.
8. Release the pin-type retainer and backrest trim from the backrest frame.

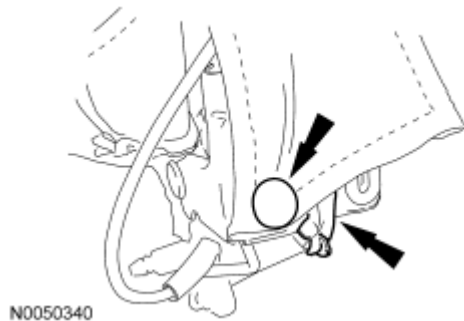


Fig. 54: Locating Pin-Type Retainer
Courtesy of FORD MOTOR CO.

WARNING: To correctly retain the backrest trim cover, always install 2 hog rings when attaching the backrest trim cover wire to the listing wire in each foam pad window. Failure to follow this instruction may result in the seat side air bag module deploying incorrectly and increases the risk of serious personal injury or death in a crash.

CAUTION: Use care when separating the seat cushion trim cover from the hook-and-loop strip. The hook-and-loop strip may be torn from the seat cushion foam.

9. Invert the backrest trim cover up and remove the first row of hog rings.
 1. Place a hand between the backrest trim cover and backrest foam pad and carefully separate the hook-and-loop strips.
 2. Remove the 2 hog rings per window.

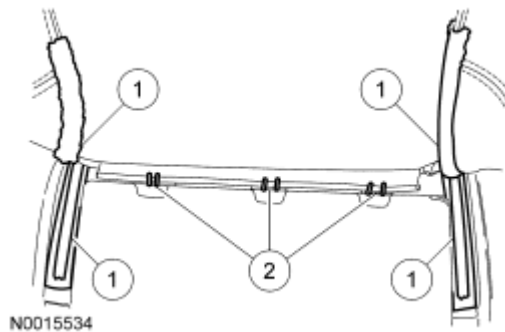


Fig. 55: Locating Hog Rings
 Courtesy of FORD MOTOR CO.

WARNING: To correctly retain the backrest trim cover, always install 2 hog rings when attaching the backrest trim cover wire to the listing wire in each foam pad window. Failure to follow this instruction may result in the seat side air bag module deploying incorrectly and increases the risk of serious personal injury or death in a crash.

CAUTION: Use care when separating the seat cushion trim cover from the hook-and-loop strip. The hook-and-loop strip may be torn from the seat cushion foam.

10. Invert the backrest trim cover up and remove the second row of hog rings.
 1. Place a hand between the backrest trim cover and backrest foam pad and carefully separate the hook-and-loop strips.
 2. Remove the 2 hog rings per window.

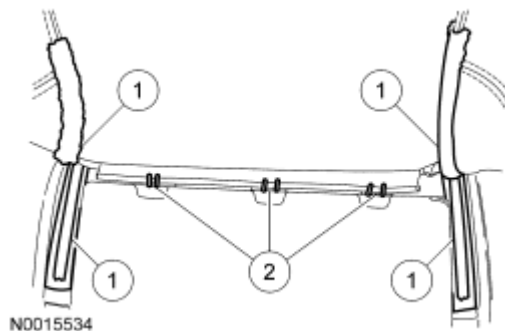


Fig. 56: Locating Hog Rings
 Courtesy of FORD MOTOR CO.

11. Invert the backrest trim cover to the top of the backrest.

NOTE: The head restraint guides are not interchangeable.

12. Release and remove the 2 head restraint guides.

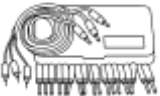
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13. Remove the backrest trim cover.
14. To install, reverse the removal procedure.
15. Install the front seat backrest. For additional information, refer to **Seat Backrest - Front**.
16. Install the seat. For additional information, refer to **Seat - Front**.
17. Repower the SRS. For additional information, refer to Supplemental Restraint System (SRS) Depowering and Repowering in the General Procedures portion of **SUPPLEMENTAL RESTRAINT SYSTEM** article.

SEAT CUSHION COVER - FRONT

Special Tools

Illustration	Tool Name	Tool Number
 ST1138-A	Vehicle Communication Module (VCM) and Integrated Diagnostic System (IDS)	software with appropriate hardware, or equivalent scan tool

REMOVAL AND INSTALLATION

CAUTION: To prevent system failure, it is necessary to carry out the occupant classification sensor (OCS) system reset when a front passenger seat cushion is disassembled, a new trim cover installed or an OCS system service kit is installed. A scan tool is used to carry out the OCS system reset.

NOTE: The air bag warning indicator illuminates when the restraints control module (RCM) fuse is removed and the ignition switch is ON. This is normal operation and does not indicate a supplemental restraint system (SRS) fault.

NOTE: If a driver or passenger seat cushion heater mat is faulty, a new seat cushion foam pad must be installed with the heater mat. Do not reuse the original seat cushion foam pad.

NOTE: When installing an OCS system service kit equipped with heated seats, a new seat cushion heater mat must be installed. Do not reuse the OEM OCS seat cushion heater mat. The OCS system service kit does not come with a new seat cushion heater mat.

NOTE: The SRS must be fully operational and free of faults before releasing the vehicle to the customer.

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1. Remove the front seat. For additional information, refer to Seat - Front.
2. Remove the front seat backrest. For additional information, refer to Seat Backrest - Front.
3. Release all seat cushion trim cover-to-cushion frame retainers.

CAUTION: Use care when separating the seat cushion trim cover from the hook-and-loop strip, or the hook-and-loop strip can be torn from the seat cushion foam.

4. Separate the hook-and-loop strips, remove the hog rings and separate the cushion trim cover from the cushion foam pad.
5. To install, reverse the removal procedure.
6. Install the seat. For additional information, refer to Seat - Front.
7. Repower the SRS. **If the passenger seat has been serviced, do not prove out the SRS at this time.** For additional information, refer to Supplemental Restraint System (SRS) Depowering and Repowering in the General Procedures portion of SUPPLEMENTAL RESTRAINT SYSTEM article.

Passenger seat

WARNING: Install a new occupant classification sensor (OCS) system service kit as a complete assembly. Never install only part of the kit components. Failure to follow this instruction may result in incorrect operation of the OCS system and increases the risk of serious personal injury or death in a crash.

WARNING: Make sure the front passenger seat repair is complete, the seat and all attached components (head restraint, seat side shield, etc.) are correctly assembled, and the seat is correctly installed to the vehicle before carrying out the System Reset. Failure to follow these instructions may result in incorrect operation of the occupant classification sensor (OCS) system and increases the risk of serious personal injury or death in a crash.

CAUTION: To prevent system failure, it is necessary to carry out the occupant classification sensor (OCS) system reset when a front passenger seat cushion is disassembled, a new trim cover installed or an OCS system service kit is installed. A scan tool is used to carry out the OCS system reset.

CAUTION: To prevent system failure, the following precautions must be taken before carrying out the occupant classification sensor (OCS) system reset:

- Make sure the voltage to the occupant classification system module (OCSM) is above 8.0 volts and less than 18.0 volts.

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- Make sure the OCS is not at a temperature below 6°C (42°F) or above 36°C (97°F) when initiating the OCS system reset process. If the vehicle has been exposed to extreme cold or hot temperatures, the vehicle must be exposed and kept at a temperature within the limits, 6°C to 36°C (42°F to 97°F) for a minimum of 30 minutes.
- Make sure nothing is present on the passenger seat before carrying out the OCS system reset and nothing is placed on the seat during the process.
- Make sure a minimum 8-second time period has passed after cycling the ignition switch ON before the carrying out the OCS system reset process.

NOTE: If the first attempt to carry out the occupant classification sensor (OCS) system reset is unsuccessful, a second attempt must be made. If the second attempt is unsuccessful, a new OCS system service kit must be installed.

8. Carry out the OCS system reset.
9. Cycle the ignition switch from ON to OFF.

NOTE: The ignition switch must be cycled after the OCS system reset.

10. Cycle the ignition switch from OFF to ON.

All seats

11. Prove out the SRS as follows:

Turn the ignition key from ON to OFF. Wait 10 seconds, then turn the key back to ON and visually monitor the air bag warning indicator with the air bag modules installed. The air bag warning indicator will light continuously for approximately 6 seconds and then turn off. If an air bag SRS fault is present, the air bag warning indicator will:

- fail to light.
- remain lit continuously.
- flash at a 5Hz rate (RCM not configured).

The air bag warning indicator might not light until approximately 30 seconds after the ignition switch has been turned from the OFF to the ON position. This is the time required for the RCM to complete the testing of the SRS. If the air bag warning indicator is inoperative and a SRS fault exists, a chime will sound in a pattern of 5 sets of 5 beeps. If this occurs, the air bag warning indicator and any SRS fault discovered must be diagnosed and repaired.

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Clear all continuous DTCs from the RCM using a scan tool.

SEAT CONTROL SWITCH

REMOVAL AND INSTALLATION

NOTE: The air bag warning indicator illuminates when the restraints control module (RCM) fuse is removed and the ignition switch is ON. This is normal operation and does not indicate a supplemental restraint system (SRS) fault.

NOTE: The SRS must be fully operational and free of faults before releasing the vehicle to the customer.

1. Depower the SRS. For additional information, refer to Supplemental Restraint System (SRS) Depowering and Repowering in the General Procedures portion of **SUPPLEMENTAL RESTRAINT SYSTEM** article.
2. Remove the clip and recline handle.
3. Remove the seat control switch knob.
4. Remove the screw at the rear of the cushion side shield. Pull out on the side of the cushion side shield, release the retaining clips and pin-type retainer and separate the side shield.
5. Disconnect the seat control switch.
6. Release the retainers and remove the seat control switch from the cushion side shield.

CAUTION: Inspect the cushion side shield retaining clips for damage. Install new retainers if damage is present.

7. To install, reverse the removal procedure.
8. Repower the SRS. For additional information, refer to Supplemental Restraint System (SRS) Depowering and Repowering in the General Procedures portion of **SUPPLEMENTAL RESTRAINT SYSTEM** article.

LUMBAR CONTROL SWITCH

REMOVAL AND INSTALLATION

NOTE: The air bag warning indicator illuminates when the restraints control module (RCM) fuse is removed and the ignition switch is ON. This is normal operation and does not indicate a supplemental restraint system (SRS) fault.

NOTE: The SRS must be fully operational and free of faults before releasing the vehicle to the customer.

1. Depower the SRS. For additional information, refer to Supplemental Restraint System (SRS) Depowering

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and Repowering in the General Procedures portion of **SUPPLEMENTAL RESTRAINT SYSTEM** article.

2. Remove the clip and recline handle.
3. Remove the screw at the rear of the cushion side shield. Pull out on the side of the cushion side shield, release the retaining clips and pin-type retainer and separate the side shield.
4. Disconnect the lumbar control switch.
5. Release the retainers and remove the lumbar control switch from the cushion side shield.

CAUTION: Inspect the cushion side shield retaining clips for damage. Install new retainers if damage is present.

6. To install, reverse the removal procedure.
7. Repower the SRS. For additional information, refer to Supplemental Restraint System (SRS) Depowering and Repowering in the General Procedures portion of **SUPPLEMENTAL RESTRAINT SYSTEM** article.

LUMBAR ASSEMBLY

REMOVAL AND INSTALLATION

NOTE: The air bag warning indicator illuminates when the restraints control module (RCM) fuse is removed and the ignition switch is ON. This is normal operation and does not indicate a supplemental restraint system (SRS) fault.

NOTE: The SRS must be fully operational and free of faults before releasing the vehicle to the customer.

1. Remove the seat. For additional information, refer to **Seat - Front**.
2. Remove the front seat backrest. For additional information, refer to **Seat Backrest - Front**.
3. Remove the pin-type retainers attaching the backrest trim cover to the inboard and outboard recliners.
4. Release the J-clip at the back of the backrest trim cover and separate the hook-and-loop.
5. Invert the backrest trim cover to expose the lumbar assembly.
 - Note the wire harness routing for installation.
6. Disconnect the power lumbar electrical connector. Un-hook the 4 lumbar hooks (2 shown) from the backrest frame and remove the lumbar assembly.

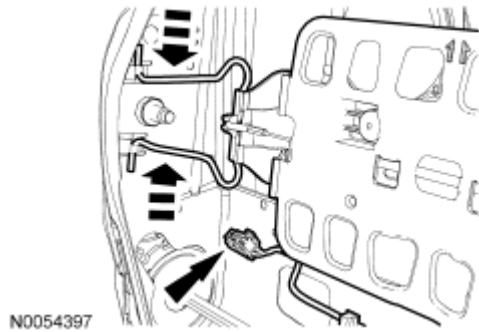


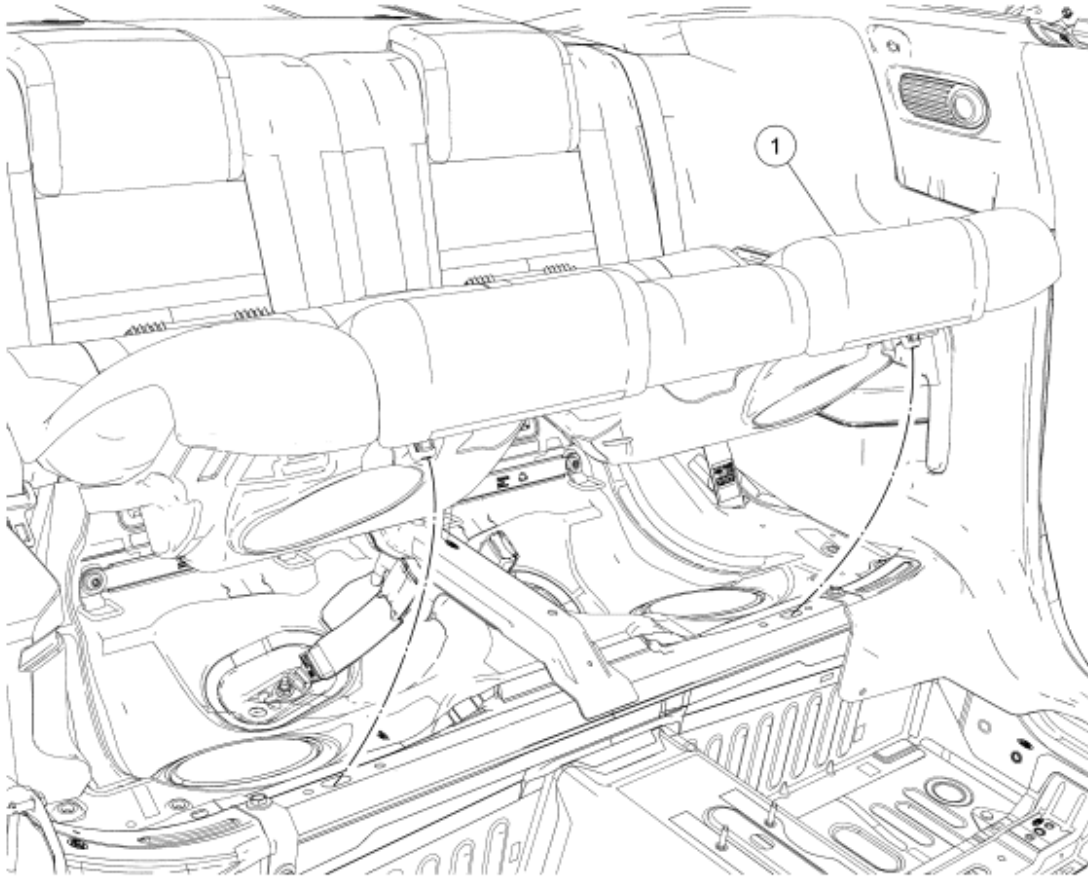
Fig. 57: Locating Electrical Connector, Retainers & Rods On Backrest Frame
Courtesy of FORD MOTOR CO.

7. To install, reverse the removal procedure.
8. Install the front seat backrest. For additional information, refer to **Seat Backrest - Front**.
9. Install the seat. For additional information, refer to **Seat - Front**.
10. Repower the SRS. For additional information, refer to Supplemental Restraint System (SRS) Depowering and Repowering in the General Procedures portion of **SUPPLEMENTAL RESTRAINT SYSTEM** article.

SEAT CUSHION - REAR

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N0014036

Fig. 58: Exploded View Of Rear Seat Cushion
Courtesy of FORD MOTOR CO.

Item	Part Number	Description
1	-	Seat cushion assembly

REMOVAL

1. From under the front of the rear cushion assembly, push each of the 2 seat cushion release tabs in, lift up at the front and remove the rear cushion assembly.

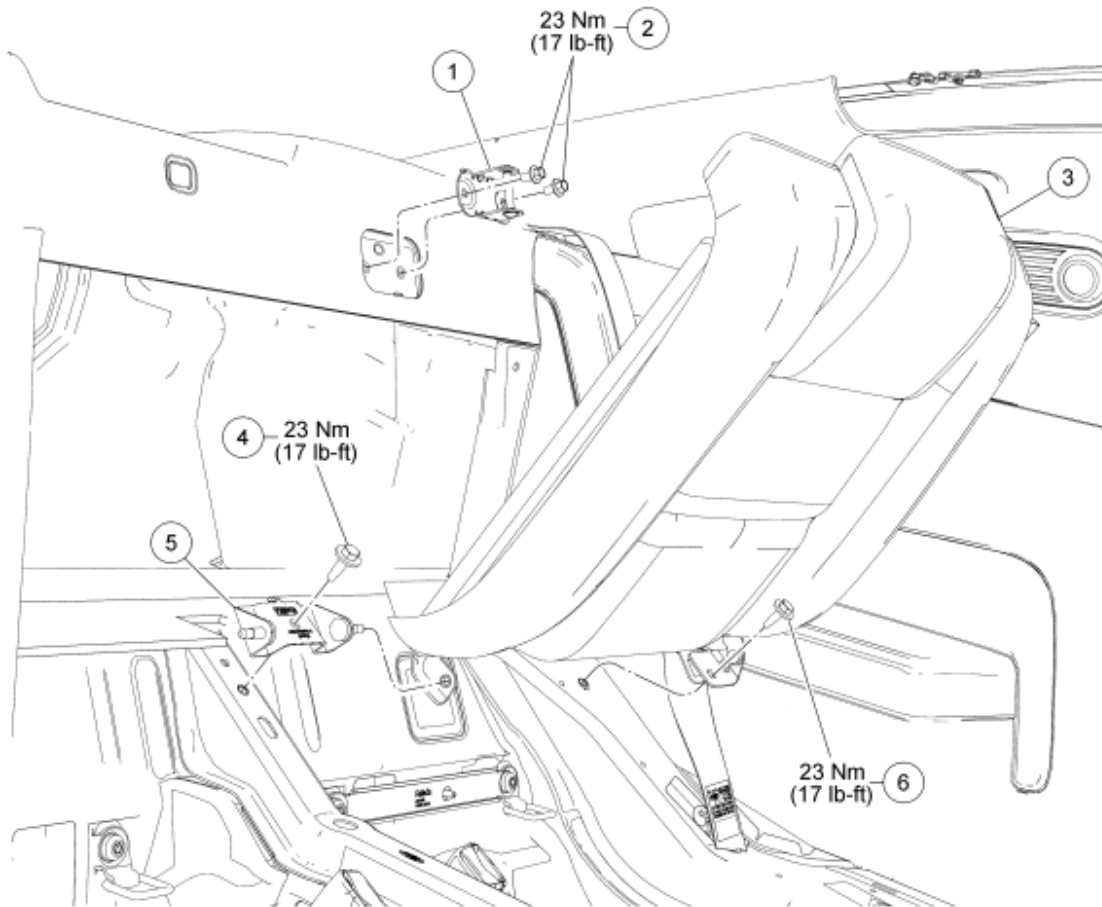
INSTALLATION

1. Align the cushion assembly and push down, engaging the retainer tabs.
 - Make sure the safety belts and buckles are accessible to the occupants after installation.

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SEAT BACKREST - REAR



N0014043

Fig. 59: Exploded View Of Coupe Backrest With Torque Specifications
Courtesy of FORD MOTOR CO.

Item	Part Number	Description
1	62452	Backrest striker
2	W505260	Backrest striker bolts
3	-	Backrest assembly
4	W505433	Backrest pivot bracket bolt
5	60615	Backrest pivot bracket
6	W505433	Backrest-to-floor bolt

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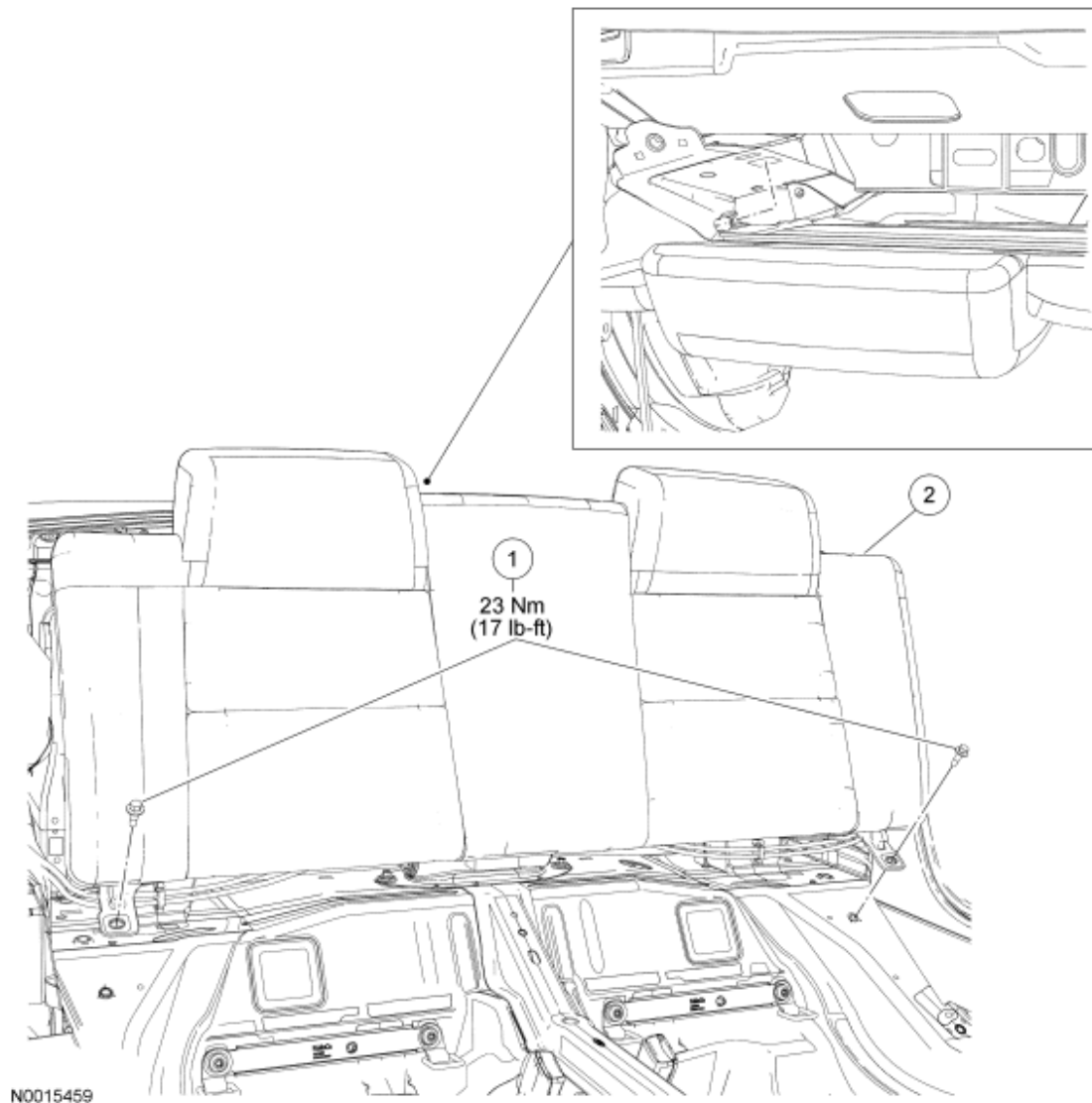


Fig. 60: Exploded View Of Convertible Backrest With Torque Specifications
Courtesy of FORD MOTOR CO.

Item	Part Number	Description
1	W505433	Backrest-to-floor bolts
2	-	Backrest assembly

REMOVAL AND INSTALLATION

NOTE: Coupe LH 50 percent backrest shown, RH similar.

All vehicles

1. Remove the rear seat cushion. For additional information, refer to [Seat Cushion - Rear](#).

Coupe vehicles

2. Remove the bolt, pull the strap to pivot the backrest down, slide the backrest out of the backrest pivot bracket and remove the L/H backrest.
 - To install, tighten to 23 Nm (17 lb-ft).

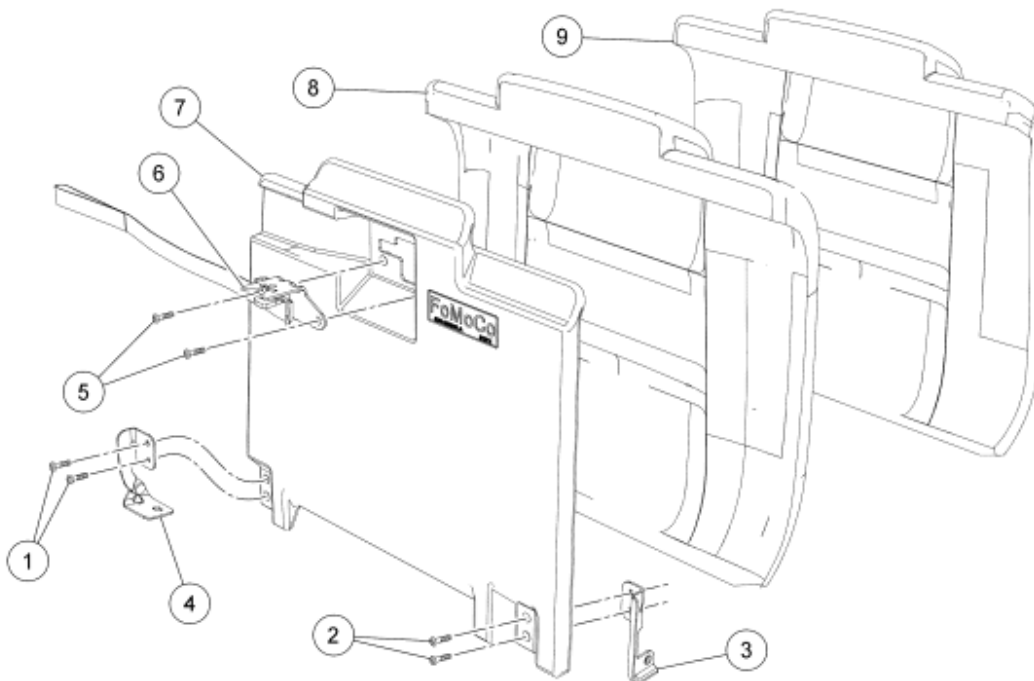
Vehicles with a convertible top

3. Remove the backrest bolts at the bottom, slide the backrest up, disengaging the hooks and remove the backrest.
 - To install, tighten to 23 Nm (17 lb-ft).

All vehicles

4. To install, reverse the removal procedure.
 - Make sure the safety belts and buckles are accessible to the occupants after installation.

SEAT - EXPLODED VIEW, REAR



N0014078

Fig. 61: Exploded View Of Rear Seat Hard Top 50 Percent Backrest
 Courtesy of FORD MOTOR CO.

Item	Part Number	Description
1	-	Rivets
2	-	Rivets

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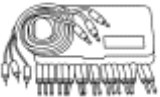
3	-	Inboard pivot bracket
4	60515	Outboard pivot bracket
5	-	Rivets
6	-	Backrest latch assembly
7	60509	Backrest panel
8	-	Backrest foam pad
9	66601	Backrest trim cover

1. For additional information, refer to the procedures.

DISASSEMBLY AND ASSEMBLY

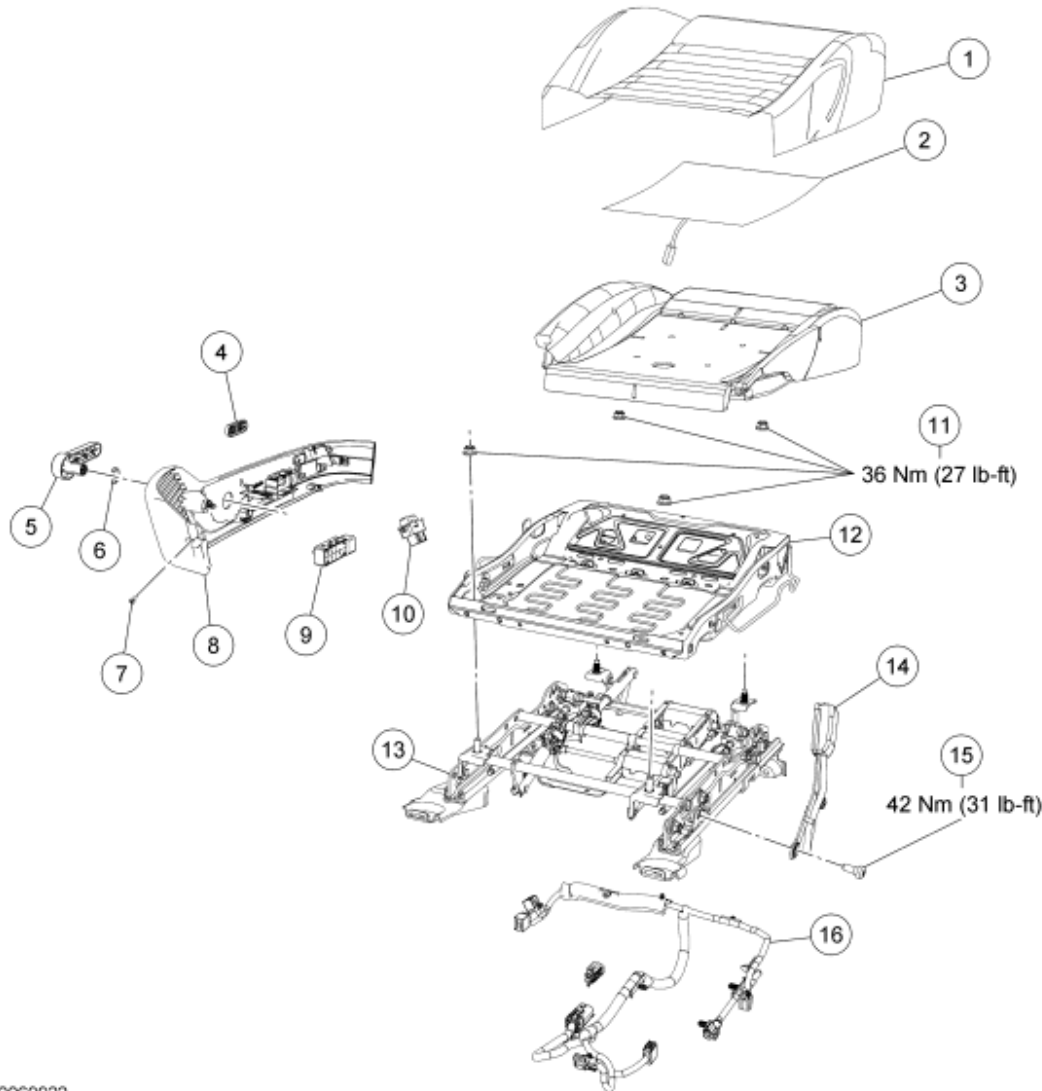
SEAT CUSHION - FRONT

Special Tools

Illustration	Tool Name	Tool Number
 ST1138-A	Vehicle Communication Module (VCM) and Integrated Diagnostic System (IDS)	software with appropriate hardware, or equivalent scan tool

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N0069922

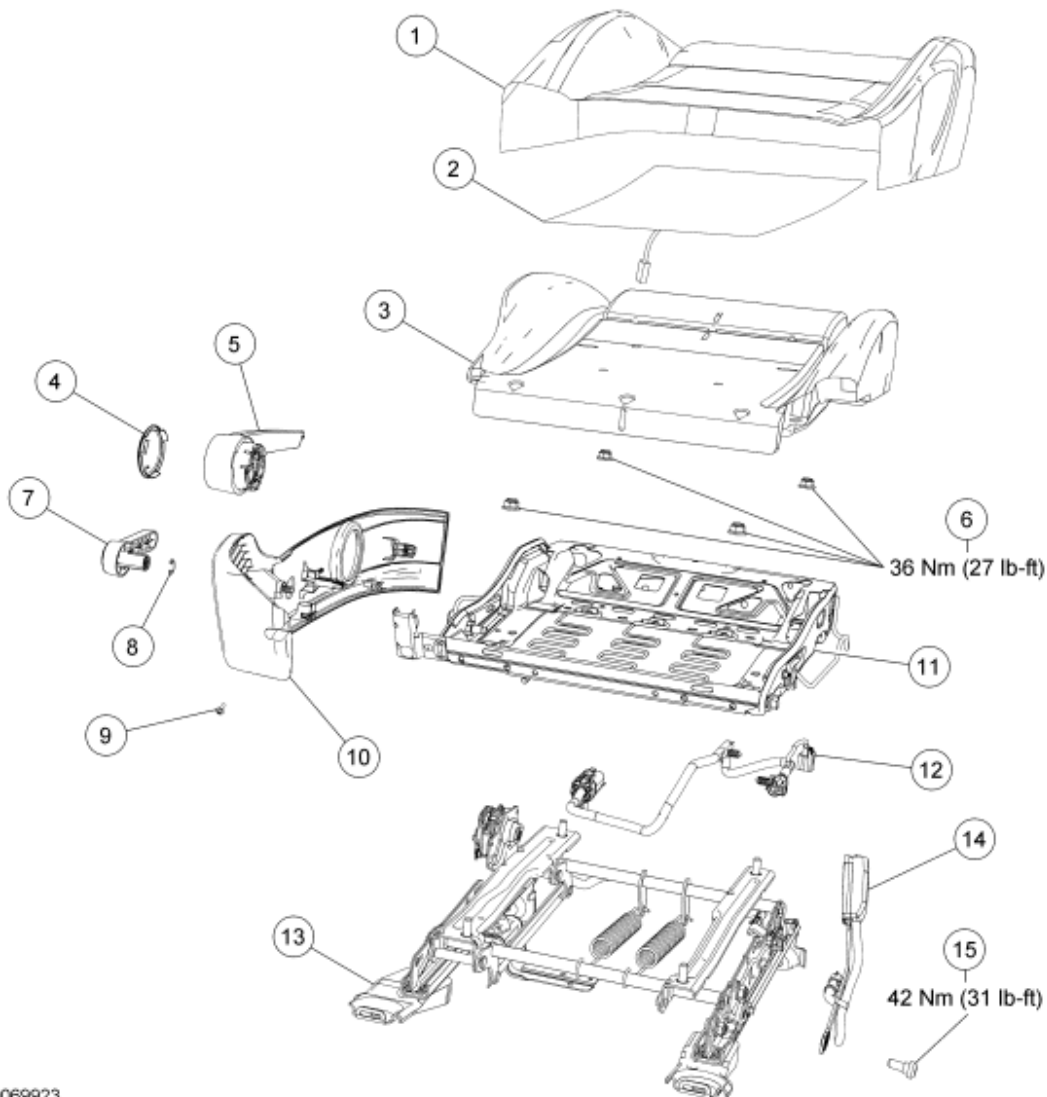
Fig. 62: Exploded View Of Driver Power Front Seat Cushion With Torque Specifications
Courtesy of FORD MOTOR CO.

Item	Part Number	Description
1	62901	Cushion trim cover
2	14D698	Heater mat (if equipped)
3	-	Cushion foam pad
4	-	Seat control switch knob (if equipped)
5	62622	Recline handle
6	-	Recline handle clip (part of 62622)
7	-	Cushion side shield screw
8	62187	Cushion side shield
9	14A701	Seat control switch
10	619A74	Lumbar control switch (if equipped)

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11	W520113	Cushion frame-to-seat-track nuts
12	63101	Cushion frame
13	61701	Seat track
14	61203	Safety belt buckle
15	-	Safety belt buckle bolt (part of 61203)
16	14A699	Driver seat wire harness



N0069923

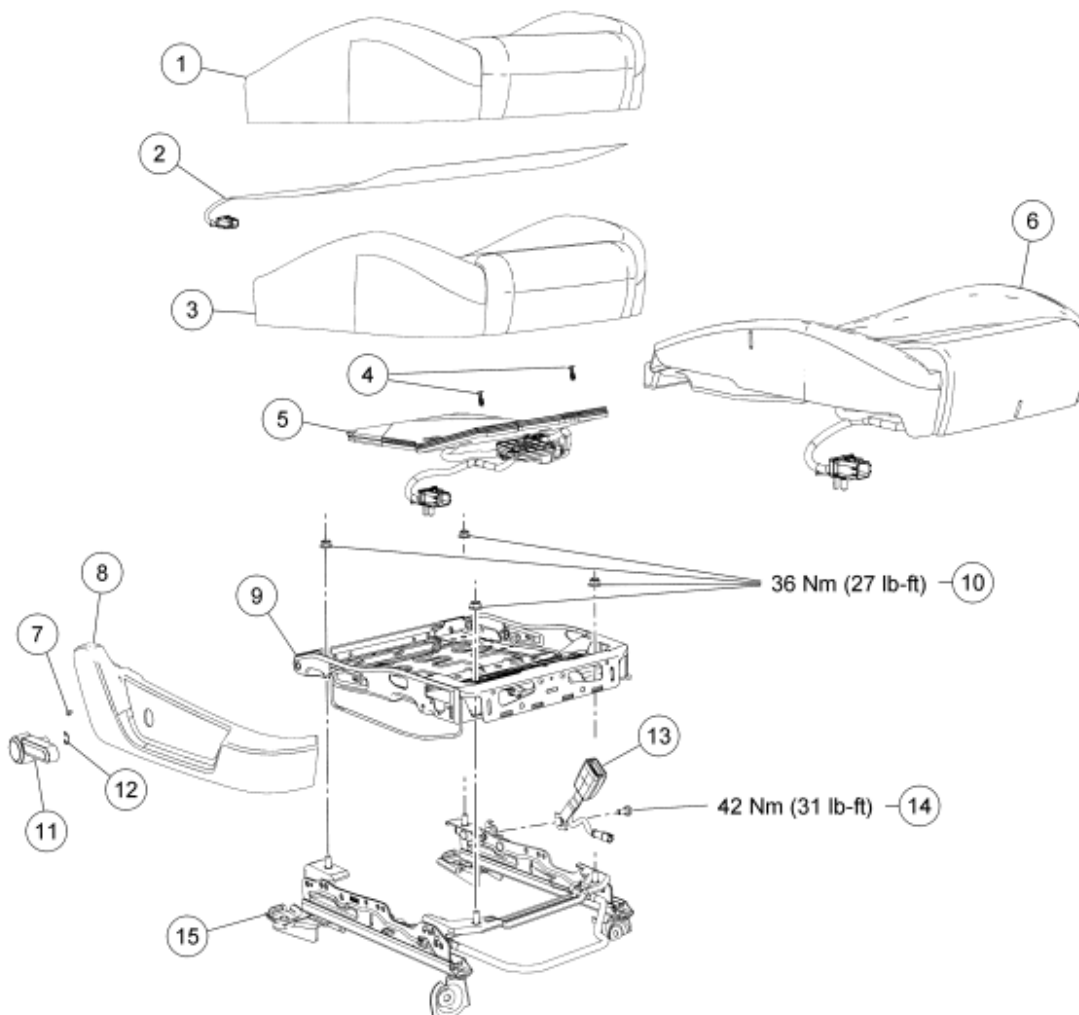
Fig. 63: Exploded View Of Driver Manual Front Seat Cushion With Torque Specifications
 Courtesy of FORD MOTOR CO.

Item	Part Number	Description
1	62901	Cushion trim cover
2	14D698	Heater mat (if equipped)
3	-	Cushion foam pad

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4	62768	Manual height adjust handle center cover (if equipped)
5	61753	Manual height adjust handle (if equipped)
6	W520113	Cushion frame-to-seat-track nuts
7	62622	Recline handle
8	-	Recline handle clip (part of 62622)
9	-	Cushion side shield screw
10	62187	Cushion side shield
11	63101	Cushion frame
12	14A699	Driver seat wire harness
13	61701	Seat track
14	61203	Safety belt buckle
15	-	Safety belt buckle bolt (part of 61203)



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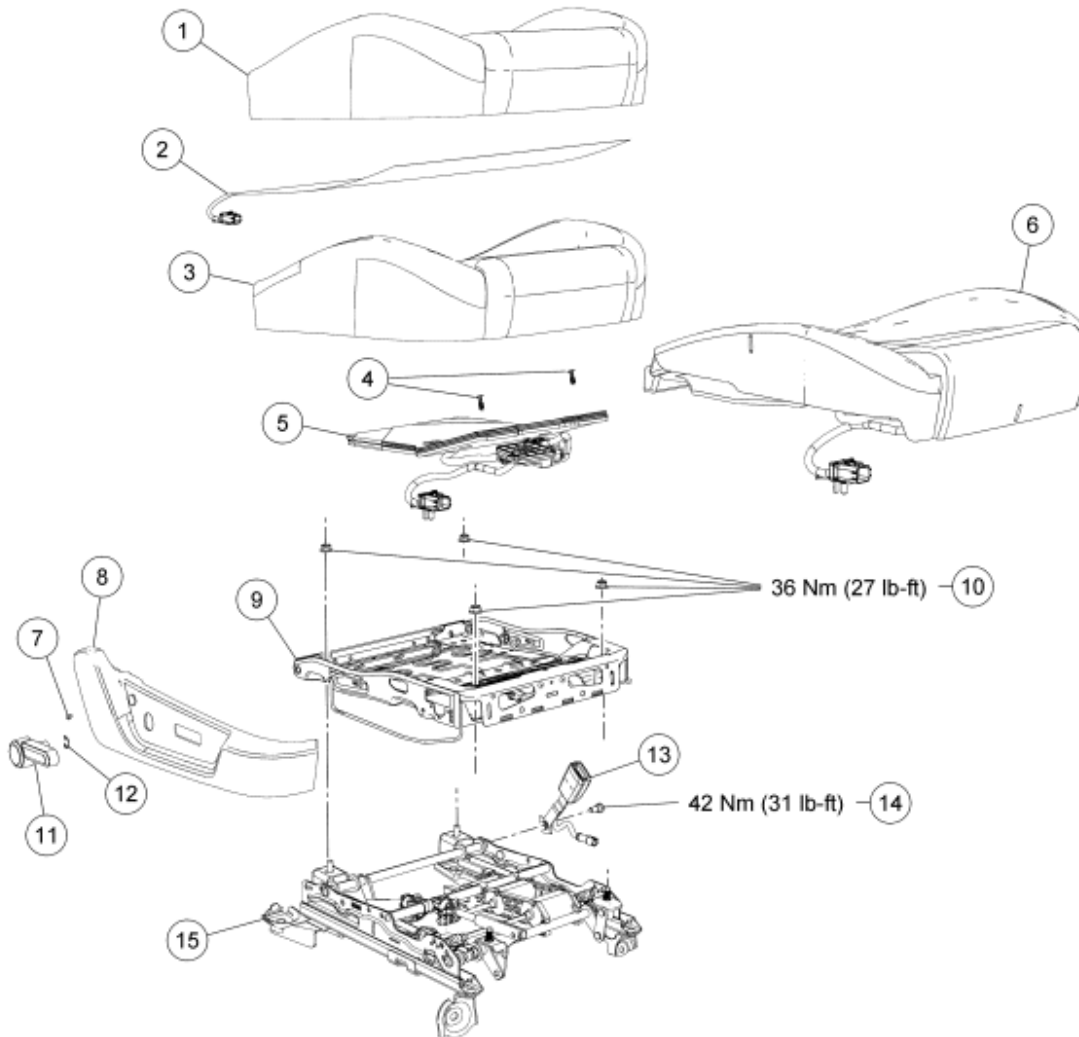
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Fig. 64: Exploded View Of Passenger Manual Front Seat Cushion With Torque Specifications
Courtesy of FORD MOTOR CO.

Item	Part Number	Description
1	62900	Cushion trim cover
2	-	Heater mat (part of 632A22) (if equipped)
3	-	Cushion foam pad (part of OEM occupant classification sensor [OCS])
4	-	Pin-type retainers (part of OEM OCS)
5	-	OEM OCS
6	632A22	OCS system service kit
7	-	Side shield screw
8	62186	Side shield
9	63100	Cushion frame
10	W520113	Cushion frame-to-seat-track nuts
11	62622	Recline handle
12	-	Recline handle clip (part of 62622)
13	61203	Safety belt buckle
14	-	Safety belt buckle bolt (part of 61203)
15	618B46	Manual seat track

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N0055518

Fig. 65: Exploded View Of Passenger Power Front Seat Cushion With Torque Specifications
Courtesy of FORD MOTOR CO.

Item	Part Number	Description
1	62900	Cushion trim cover
2	-	Heater mat (part of 632A22) (if equipped)
3	-	Cushion foam pad (part of OEM occupant classification sensor [OCS])
4	-	Pin-type retainers (part of OEM OCS)
5	-	OEM OCS
6	632A22	OCS system service kit
7	-	Side shield screw
8	62186	Side shield
9	63100	Cushion frame

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10	W520113	Cushion frame-to-seat-track nuts
11	62622	Recline handle
12	-	Recline handle clip (part of 62622)
13	61203	Safety belt buckle
14	-	Safety belt buckle bolt (part of 61203)
15	61701	Power seat track

DISASSEMBLY

WARNING: Install a new occupant classification sensor (OCS) system service kit as a complete assembly. Never install only part of the kit components. Failure to follow this instruction may result in incorrect operation of the OCS system and increases the risk of serious personal injury or death in a crash.

WARNING: Never probe the electrical connectors on air bag, safety canopy or side air curtain modules. Failure to follow this instruction may result in the accidental deployment of these modules, which increases the risk of serious personal injury or death.

CAUTION: To prevent system failure, it is necessary to carry out the occupant classification sensor (OCS) system reset when a front passenger seat cushion is disassembled, a new trim cover installed or an OCS system service kit is installed. A scan tool is used to carry out the OCS system reset command.

NOTE: OCS system components (seat cushion foam pad, bladder with pressure sensor and occupant classification system module (OCSM) module) are calibrated to each other and are serviced as an assembly. The OCS system components are not to be installed separately. If a new OCS system component or seat cushion foam pad are needed, a new OCS system service kit (seat cushion foam pad, bladder with pressure sensor, OCSM and seat wire harness) must be installed as an assembly.

NOTE: To identify between a production occupant classification sensor (OCS) system and a OCS system service kit, inspect the occupant classification system module (OCSM) electrical connector.

A production OCS system allows the disconnection of the OCSM electrical connector.

An OCS system service kit has the electrical connector glued to the OCSM, it cannot and should not be disconnected or altered.

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- NOTE:** The air bag warning indicator illuminates when the restraints control module (RCM) fuse is removed and the ignition switch is ON. This is normal operation and does not indicate a supplemental restraint system (SRS) fault.
- NOTE:** When installing an occupant classification sensor (OCS) system service kit, refer to SUPPLEMENTAL RESTRAINT SYSTEM article for the OCS service kit installation procedure.
- NOTE:** If a driver or passenger seat cushion heater mat is faulty, a new seat cushion foam pad must be installed with the heater mat. Do not reuse the original seat cushion foam pad.
- When installing an OCS service kit equipped with heated seats, a new cushion heater mat must be installed. Do not reuse the OEM OCS driver cushion heater mat. The OCS service kit does not come with a new cushion heater mat.
- NOTE:** The SRS must be fully operational and free of faults before releasing the vehicle to the customer.

All seats

1. Remove the front seat. For additional information, refer to Seat - Front.
2. Remove the front seat backrest. For additional information, refer to Seat Backrest - Front.
3. Remove the seat track. For additional information, refer to Seat Track - Manual or Seat Track - Power.

Power driver seat

4. Disconnect the seat control switch and lumbar control switch (if equipped) and remove the cushion side shield.
5. Release the retainers and remove the seat control switch and the lumbar control (if equipped) switch from the cushion side shield.
6. Disconnect the heated seat electrical connectors (if equipped).

Power passenger seat

7. Disconnect the seat control switch and remove the cushion side shield.
8. Release the retainers and remove the seat control switch from the cushion side shield.
9. Disconnect the heated seat electrical connectors (if equipped).

Manual driver and all passenger seats

10. Release the cushion trim cover rear J-strip.

Driver seat and passenger seat with OEM occupant classification system (OCS)

11. Remove the cushion foam pad and cushion trim cover from the cushion frame.

Passenger seats with OEM OCS or OCS system service kit

CAUTION: To prevent system failure, do not oversize the seat cushion frame holes used to rivet the occupant classification system module (OCSM) in place.

NOTE: OEM OCSM shown, OCS system service kit similar.

12. Using a 5 mm (0.19 in) drill, remove the 2 rivets and separate the OCSM from the cushion frame.

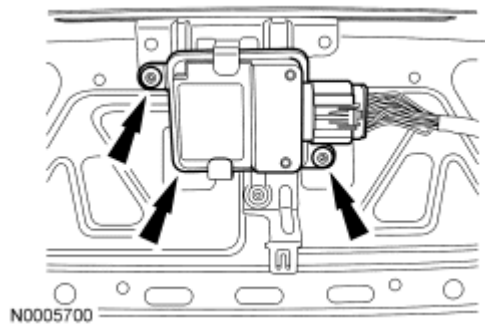


Fig. 66: Locating Rivets Of ECU
Courtesy of FORD MOTOR CO.

NOTE: OEM OCS pressure sensor shown, OCS system service kit pressure sensor similar.

13. Bend to release the tab and remove the pressure sensor from the bracket.

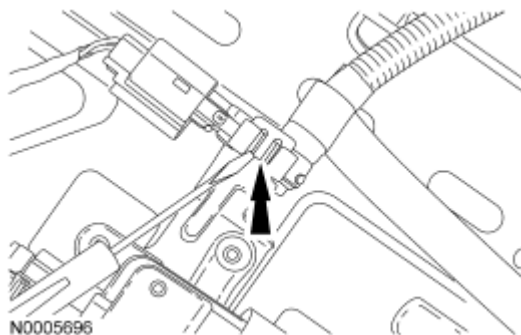


Fig. 67: Removing Pressure Sensor From Bracket
Courtesy of FORD MOTOR CO.

NOTE: Note wire harness routing for installation.

14. Release any seat wire harness routing pin-type retainers from the cushion frame.

Passenger seat with OEM OCS

15. Remove the OCS bladder pin-type retainers.

Passenger seats with OEM OCS or OCS system service kit

NOTE: **Note the cushion frame opening that the OCS components and seat wire harness are being routed through for installation.**

16. Remove the OCSM and seat wire harness from the cushion frame.
 - Feed the hose, pressure sensor, wire harness, electrical connectors and OCSM through the opening in the cushion frame.

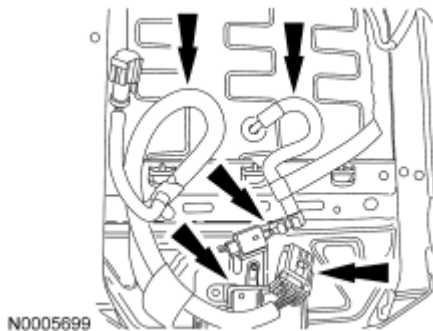


Fig. 68: Locating Pressure Sensor, Wire Harness, Electrical Connectors And ECU
Courtesy of FORD MOTOR CO.

Driver seat

NOTE: **Note wire harness routing for installation.**

17. Release any pin-type retainer(s) and remove the seat wire harness from the cushion frame.

All seats

CAUTION: Use care when separating the seat cushion trim cover from the hook-and-loop strip, or the hook-and-loop strip can be torn from the seat cushion foam.

18. Separate the hook-and-loop strips, remove the hog rings and separate the cushion trim cover from the cushion foam pad.

ASSEMBLY

All seats

1. Position the cushion trim cover to the cushion foam pad, attach the hook-and-loop strips and install the hog rings.

Driver seat

2. Route the seat wire harness to the cushion frame and attach the pin-type retainer(s) as noted during removal.

Passenger seats with OEM OCS or OCS system service kit

WARNING: Install a new occupant classification sensor (OCS) system service kit as a complete assembly. Never install only part of the kit components. Failure to follow this instruction may result in incorrect operation of the OCS system and increases the risk of serious personal injury or death in a crash.

CAUTION: Failure to route the seat occupant system components through the correct seat cushion support opening can cause component failure.

CAUTION: While positioning the seat cushion frame and occupant classification system assembly, be careful not to damage any of the components. Failure to do so can result in component failure.

3. Position the OCS components and seat wire harness through the cushion frame opening as noted during removal.
 - Feed the hose, pressure sensor, wire harness, electrical connectors and OCSM through the opening in the cushion frame.

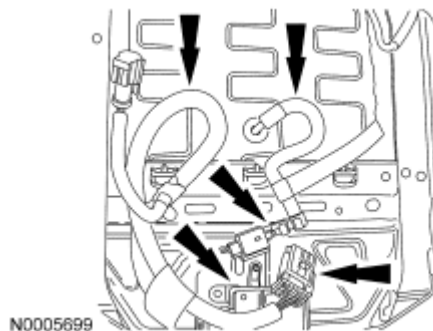


Fig. 69: Locating Pressure Sensor, Wire Harness, Electrical Connectors And ECU
Courtesy of FORD MOTOR CO.

Passenger seat with OEM OCS

4. Install the OCS bladder pin-type retainers.

Passenger seats with OEM OCS or OCS system service kit

5. Position the OCSM onto the seat cushion pan bracket and install the new rivets.
 - The OCSM must be correctly positioned and securely riveted in place. Failure to do so can set a DTC in the restraints control module (RCM).

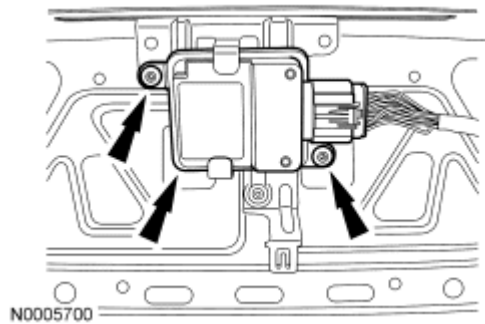


Fig. 70: Locating Rivets Of ECU
Courtesy of FORD MOTOR CO.

6. Bend the retaining tab back on the pressure sensor bracket.

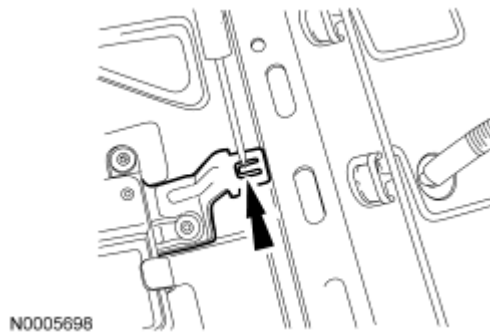


Fig. 71: Locating Retaining Tab Back On Pressure Sensor Bracket
Courtesy of FORD MOTOR CO.

7. Install the pressure sensor onto the cushion frame bracket, making sure the retaining tab is completely engaged.
 - When installed correctly, an audible click will be heard and the pressure sensor will not be able to be removed from its bracket without disengaging the retaining tab.

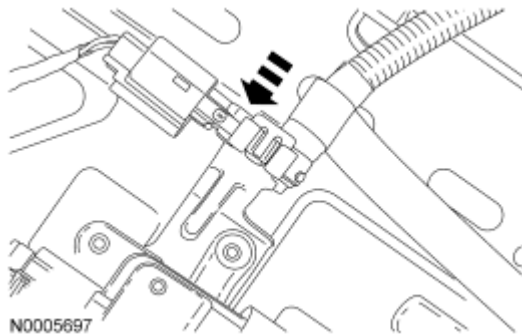


Fig. 72: Installing Pressure Sensor Onto Cushion Frame Bracket
Courtesy of FORD MOTOR CO.

8. Attach any seat wire harness routing pin-type retainers to the cushion frame as noted during removal.

Power driver seat

9. Install the seat control switch and the lumbar control switch into the cushion side shield.
 - Install the seat control switch knob.
10. Position the cushion side shield to the cushion frame and connect the seat control switch and lumbar control switch.

All seats

11. Position the cushion foam pad and trim cover to the cushion frame.
12. Install the seat track. For additional information, refer to [Seat Track - Manual](#) or [Seat Track - Power](#).
13. Install the seat backrest. For additional information, refer to [Seat Backrest - Front](#).
14. Install the seat. For additional information, refer to [Seat - Front](#).
15. Repower the SRS. **If the passenger seat has been serviced, do not prove out the SRS at this time.** For additional information, refer to Supplemental Restraint System (SRS) Depowering and Repowering in the General Procedures portion of [SUPPLEMENTAL RESTRAINT SYSTEM](#) article.

Passenger seat

WARNING: Install a new occupant classification sensor (OCS) system service kit as a complete assembly. Never install only part of the kit components. Failure to follow this instruction may result in incorrect operation of the OCS system and increases the risk of serious personal injury or death in a crash.

WARNING: Make sure the front passenger seat repair is complete, the seat and all attached components (head restraint, seat side shield, etc.) are correctly assembled, and the seat is correctly installed to the vehicle before carrying out the System Reset. Failure to follow these instructions may result in incorrect operation of the occupant

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classification sensor (OCS) system and increases the risk of serious personal injury or death in a crash.

CAUTION: To prevent system failure, it is necessary to carry out the occupant classification sensor (OCS) system reset when a front passenger seat cushion is disassembled, a new trim cover installed or an OCS system service kit is installed. A scan tool is used to carry out the OCS system reset command.

CAUTION: To prevent system failure, the following precautions must be taken before carrying out the occupant classification sensor (OCS) system reset:

- Make sure the voltage to the occupant classification system module (OCSM) is above 8.0 volts and less than 18.0 volts.
- Make sure the OCS is not at a temperature below 6°C (42°F) or above 36°C (97°F) when initiating the OCS system reset process. If the vehicle has been exposed to extreme cold or hot temperatures, the vehicle must be exposed and kept at a temperature within the limits, 6°C to 36°C (42°F to 97°F) for a minimum of 30 minutes.
- Make sure nothing is present on the passenger seat before carrying out the OCS system reset and nothing is placed on the seat during the process.
- Make sure a minimum 8-second time period has passed after cycling the ignition switch ON before the carrying out the OCS system reset process.

NOTE: If the first attempt to carry out the occupant classification sensor (OCS) system reset is unsuccessful, a second attempt must be made. If the second attempt is unsuccessful, a new OCS system service kit must be installed.

16. Carry out the OCS system reset active command.
17. Cycle the ignition switch from ON to OFF.

NOTE: The ignition switch must be cycled after the OCS system reset.

18. Cycle the ignition switch from OFF to ON.

All seats

19. Prove out the SRS as follows:

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Turn the ignition key from ON to OFF. Wait 10 seconds, then turn the key back to ON and visually monitor the air bag warning indicator with the air bag modules installed. The air bag warning indicator will light continuously for approximately 6 seconds and then turn off. If an air bag SRS fault is present, the air bag warning indicator will:

- fail to light.
- remain lit continuously.
- flash at a 5Hz rate (RCM not configured).

The air bag warning indicator might not light until approximately 30 seconds after the ignition switch has been turned from the OFF to the ON position. This is the time required for the RCM to complete the testing of the SRS. If the air bag warning indicator is inoperative and a SRS fault exists, a chime will sound in a pattern of 5 sets of 5 beeps. If this occurs, the air bag warning indicator and any SRS fault discovered must be diagnosed and repaired.

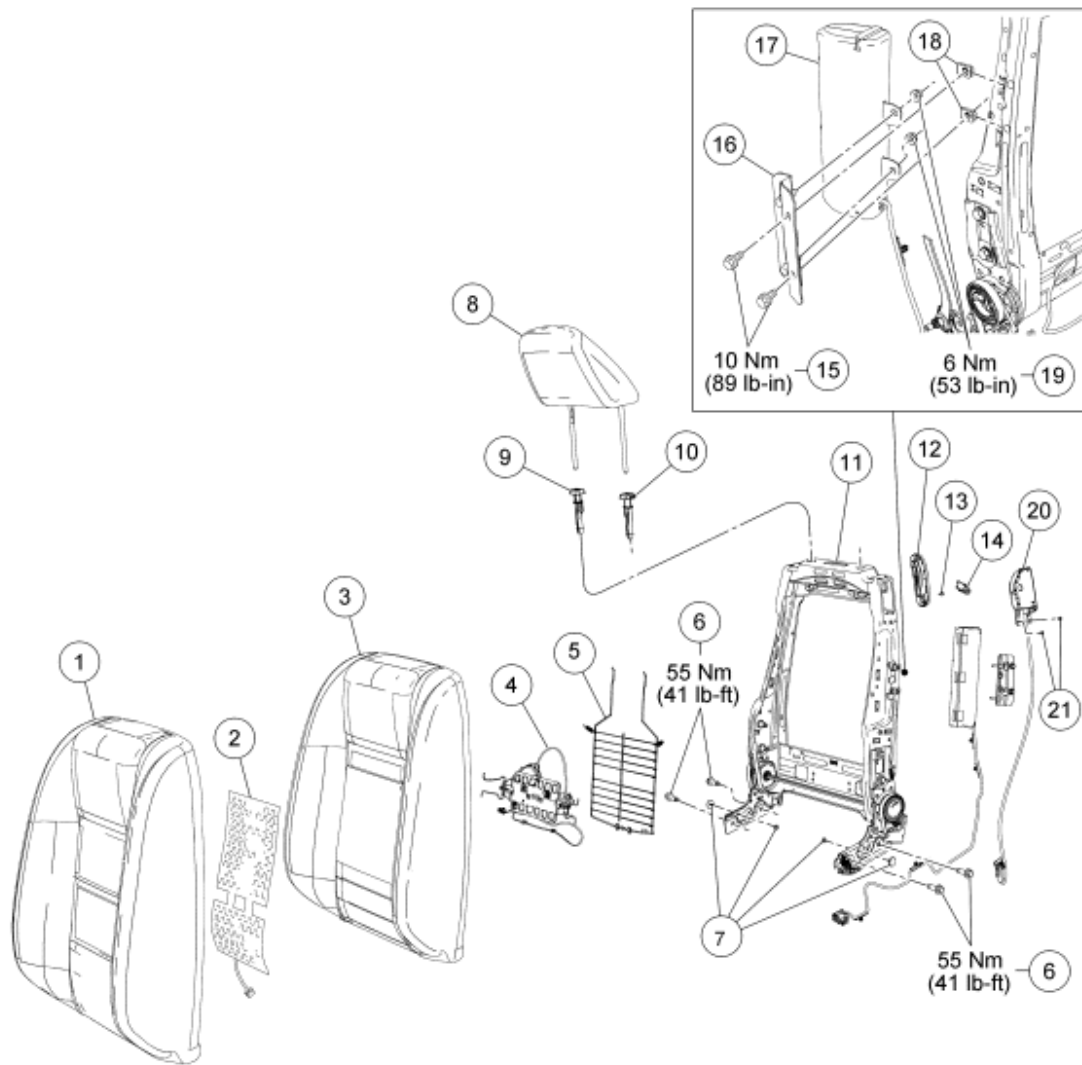
Clear all continuous DTCs from the RCM using a scan tool.

SEAT BACKREST - FRONT

NOTE: **LH shown, RH similar.**

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N0073922

Fig. 73: Exploded View Of Front Seat Backrest With Torque Specifications
Courtesy of FORD MOTOR CO.

Item	Part Number	Description
1	64417	Backrest trim cover
2	14D696	Heater mat (if equipped)
3	64810	Backrest foam pad
4	65500	Power lumbar assembly (driver side only) (if equipped)
5	63226	Static lumbar
6	W500633	Recliner-to-cushion frame bolts
7	-	Pin-type retainers
8	611A08	Head restraint assembly
9	022537	Inboard head restraint guide

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10	020617	Outboard head restraint guide
11	61018	Backrest frame
12	62672	Backrest recliner release bezel
13	W506943	Backrest recliner release bezel screw
14	62762	Backrest recliner release handle
15	N605892	Side air bag module bolts
16	611D79	Side air bag module bracket
17	611D11	Side air bag module
18	W520822	U-nuts
19	-	Side air bag module-to-bracket nuts (part of 611D11)
20	62432	Backrest recliner release
21	W711024	Backrest recliner release rivets

DISASSEMBLY

WARNING: Always carry or place a live air bag module with the air bag and deployment door/trim cover/tear seam pointed away from the body. Do not set a live air bag module down with the deployment door/trim cover/tear seam face down. Failure to follow these instructions may result in serious personal injury in the event of an accidental deployment.

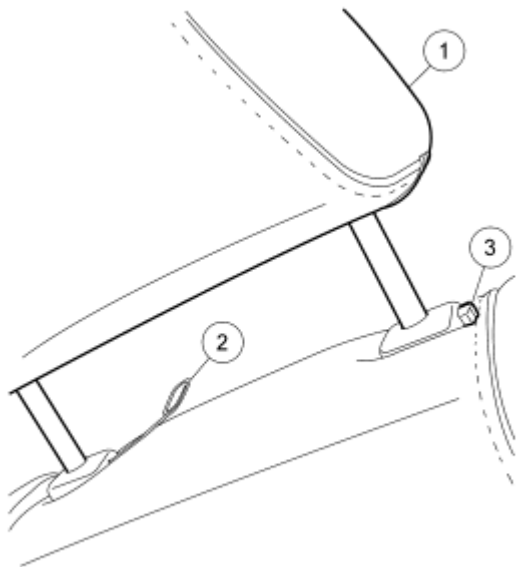
WARNING: Never probe the electrical connectors on air bag, safety canopy or side air curtain modules. Failure to follow this instruction may result in the accidental deployment of these modules, which increases the risk of serious personal injury or death.

WARNING: If the seat side air bag cover has been damaged or separated from its mounting, or if the air bag material has been exposed, install a new seat side air bag module. Never try to repair the seat side air bag module. Failure to follow these instructions may result in the seat side air bag deploying incorrectly, which increases the risk of serious personal injury or death in a crash.

WARNING: Front seat backrest trim covers installed on seats equipped with seat side air bags cannot be repaired. A new trim cover must be installed. Cleaning is permissible. Failure to follow these instructions may result in the seat side air bag module deploying incorrectly and increase the risk of serious personal injury or death in a crash.

NOTE: If a side air bag deployment took place, new backrest foam pad, trim cover, side air bag module, bracket and nuts, and U-nuts and bolts must be installed. A new seat back frame should be installed new if necessary.

- NOTE:** The air bag warning indicator illuminates when the restraints control module (RCM) fuse is removed and the ignition switch is ON. This is normal operation and does not indicate a supplemental restraint system (SRS) fault.
- NOTE:** If a driver or passenger seat backrest heater mat is faulty, a new seat backrest foam pad must be installed with the heater mat. Do not reuse the original seat backrest foam pad.
- NOTE:** The SRS must be fully operational and free of faults before releasing the vehicle to the customer.
1. Remove the front seat. For additional information, refer to **Seat - Front**.
 2. Remove the front seat backrest. For additional information, refer to **Seat Backrest - Front**.
 3. Remove the head restraint.
 1. Position the head restraint as high as it will go.
 2. Using an appropriate tool, push through the hole on the inboard side of the head restraint guide and release the head restraint.
 - Hold the head restraint up so it does not engage back into the head restraint guide.
 3. Release the head restraint guide on the other side and remove the head restraint.



N0015495

Fig. 74: Identifying Head Restraint
Courtesy of FORD MOTOR CO.

4. Remove the pin-type retainers attaching the backrest trim cover to the inboard and outboard recliners.

5. Remove the backrest recliner release bezel screw. Slide down, pull and remove the backrest recliner release bezel and backrest recliner release handle.
6. Release the J-strip at the bottom of the backrest trim cover and hook-and-loop strips.

WARNING: Front seat backrest trim covers installed on seats equipped with seat side air bags cannot be repaired. A new trim cover must be installed. Cleaning is permissible. Failure to follow these instructions may result in the seat side air bag module deploying incorrectly and increase the risk of serious personal injury or death in a crash.

WARNING: To correctly retain the backrest trim cover, always install 2 hog rings when attaching the backrest trim cover wire to the listing wire in each foam pad window. Failure to follow this instruction may result in the seat side air bag module deploying incorrectly and increases the risk of serious personal injury or death in a crash.

CAUTION: Use care when separating the seat backrest trim cover from the hook-and-loop strip. The hook-and-loop strip may be torn from the seat backrest foam.

7. Invert the backrest trim cover upward and remove the first row of hog rings.
 1. Place a hand between the backrest trim cover and backrest foam pad, and carefully separate the hook-and-loop strips.
 2. Remove the 2 hog rings per window.

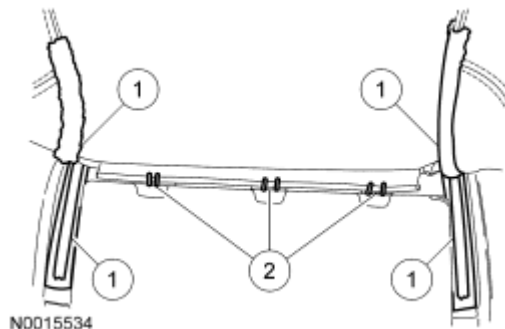


Fig. 75: Locating Hog Rings
Courtesy of FORD MOTOR CO.

8. Invert the backrest trim cover upward and remove the second row of hog rings.
 1. Place a hand between the backrest trim cover and backrest foam pad, and carefully separate the hook-and-loop strips.
 2. Remove the 2 hog rings per window.

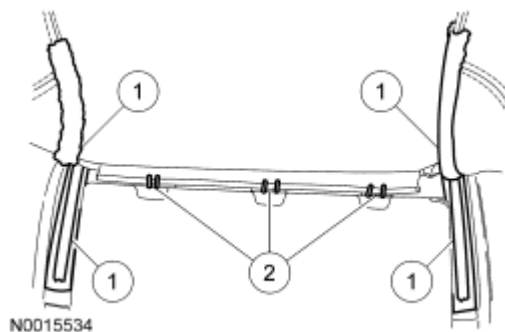


Fig. 76: Locating Hog Rings
Courtesy of FORD MOTOR CO.

9. Invert the backrest trim cover to the top of the backrest.

NOTE: The head restraint guides are not interchangeable.

10. Release and remove the 2 head restraint guides.
11. Remove the backrest trim cover.
12. Remove the backrest foam pad from the backrest frame.
13. Remove the side air bag module.
 - Release the side air bag module wire harness pin-type retainers from the backrest frame.
 - Note wire harness routing for assembly.
 - Remove the side air bag module bracket-to-backrest frame bolts.
 - Remove the side air bag module with wire harness.

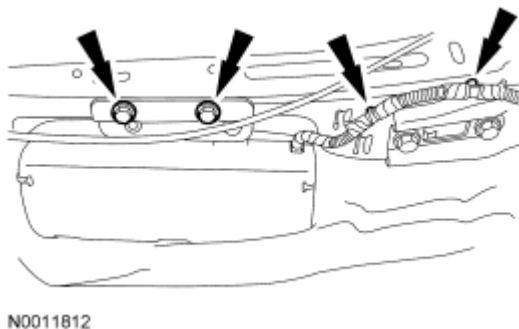


Fig. 77: Identifying Side Air Bag Module Bracket-To-Backrest Frame Bolts
Courtesy of FORD MOTOR CO.

NOTE: Make note of the cable routing for assembly.

14. Remove the recliner cable and casing from the outboard recliner.
15. Remove 2 rivets, pull out at the bottom and remove the backrest recliner release with cable.
 - If necessary, remove the tie strap holding the cable to the backrest frame.

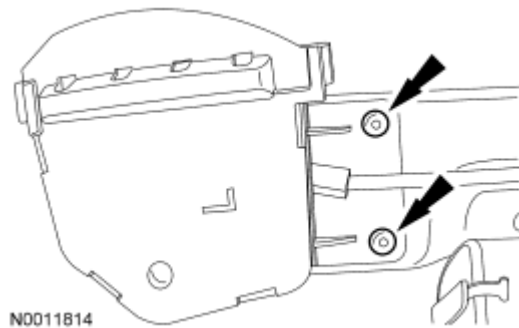


Fig. 78: Locating Rivets Of Backrest Recliner
Courtesy of FORD MOTOR CO.

16. Disconnect the power lumbar electrical connector. Detach the 4 lumbar hooks (2 shown) from the backrest frame and remove the lumbar assembly.

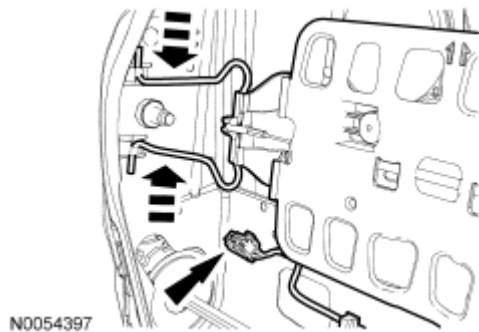


Fig. 79: Locating Electrical Connector, Retainers & Rods On Backrest Frame
Courtesy of FORD MOTOR CO.

ASSEMBLY

All seats

1. Attach the 4 lumbar hooks and install the lumbar assembly to the backrest frame.
 - If equipped, connect the power lumbar electrical connector.
2. Position the backrest recliner release with cable and install the 2 rivets.
 - If necessary, install a tie strap, holding the cable to the backrest frame.

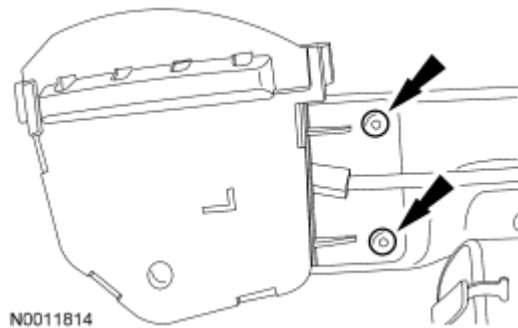


Fig. 80: Locating Rivets Of Backrest Recliner
Courtesy of FORD MOTOR CO.

3. Route the backrest recliner release cable as noted during disassembly and install the cable and casing to the outboard recliner.

Seats with a new side air bag module

NOTE: When installing a new side air bag module after deployment, install a new module, module bracket, module-to-bracket nuts, U-nuts-to-backrest frame, module and bracket-to-backrest frame bolts.

4. Install the side air bag module bracket on the side air bag module and tighten the 2 nuts.
 - Tighten the nuts to 6 Nm (53 lb-in).

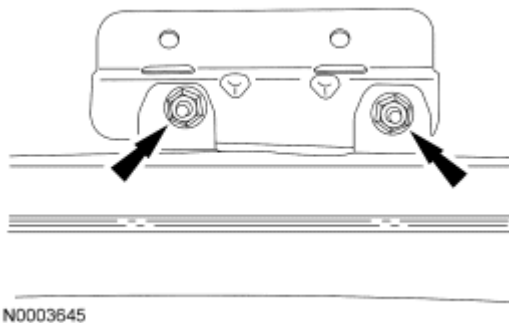


Fig. 81: Locating Side Air Bag Module Bracket Nuts
Courtesy of FORD MOTOR CO.

All seats

WARNING: Before installing the seat side air bag module/deployment chute assembly:

- Inspect the side air bag module and mounting surfaces for any damage or foreign material.
- Remove any foreign material from the mounting surfaces of the

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deployment chute, the seat backrest frame mounting bracket and the air bag module cavity in the seat backrest foam pad.

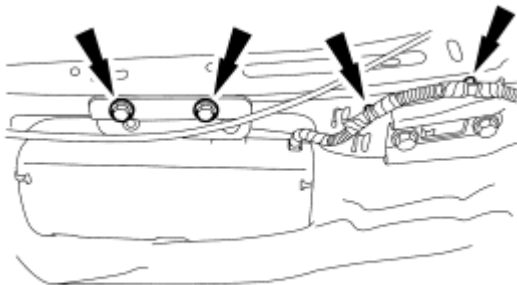
- Install new parts if damaged.

Failure to follow these instructions may result in the seat side air bag deploying incorrectly, which increases the risk of serious personal injury or death in a crash.

WARNING: If the seat side air bag cover has been damaged or separated from its mounting, or if the air bag material has been exposed, install a new seat side air bag module. Never try to repair the seat side air bag module. Failure to follow these instructions may result in the seat side air bag deploying incorrectly, which increases the risk of serious personal injury or death in a crash.

CAUTION: To avoid component damage, make sure the side air bag module wiring harness is not pinched between the side air bag module and the mounting bracket.

5. Position the side air bag module bracket to the backrest frame, install the bolts and install the wire harness pin-type retainers to the backrest frame.
 - Tighten the bolts to 10 Nm (89 lb-in).



N0011812

Fig. 82: Identifying Side Air Bag Module Bracket-To-Backrest Frame Bolts
Courtesy of FORD MOTOR CO.

6. Position the backrest frame into the backrest foam pad.
7. Position the backrest trim cover to the top of the backrest.

WARNING: To correctly retain the backrest trim cover, always install 2 hog rings when attaching the backrest trim cover wire to the listing wire in each foam pad window. Failure to follow this instruction may result in the seat side air bag module deploying incorrectly and increases the risk of serious personal injury or death in a crash.

8. Roll the backrest trim cover down and install the second row of hog rings.
 1. Install the 2 hog rings per window as shown.
 2. Attach the hook-and-loop strips.

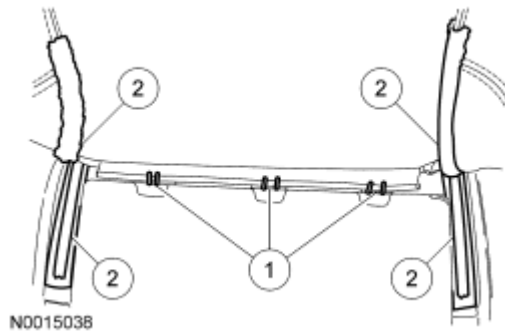


Fig. 83: Locating Hook, Loop Strips And Hog Rings
Courtesy of FORD MOTOR CO.

WARNING: To correctly retain the backrest trim cover, always install 2 hog rings when attaching the backrest trim cover wire to the listing wire in each foam pad window. Failure to follow this instruction may result in the seat side air bag module deploying incorrectly and increases the risk of serious personal injury or death in a crash.

9. Roll the backrest trim cover down and install the first row of hog rings.
 1. Install the 2 hog rings per window as shown.
 2. Attach the hook-and-loop strips.

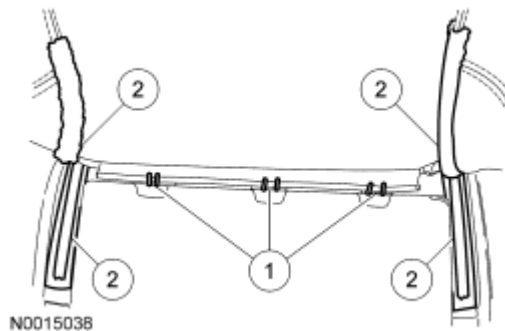


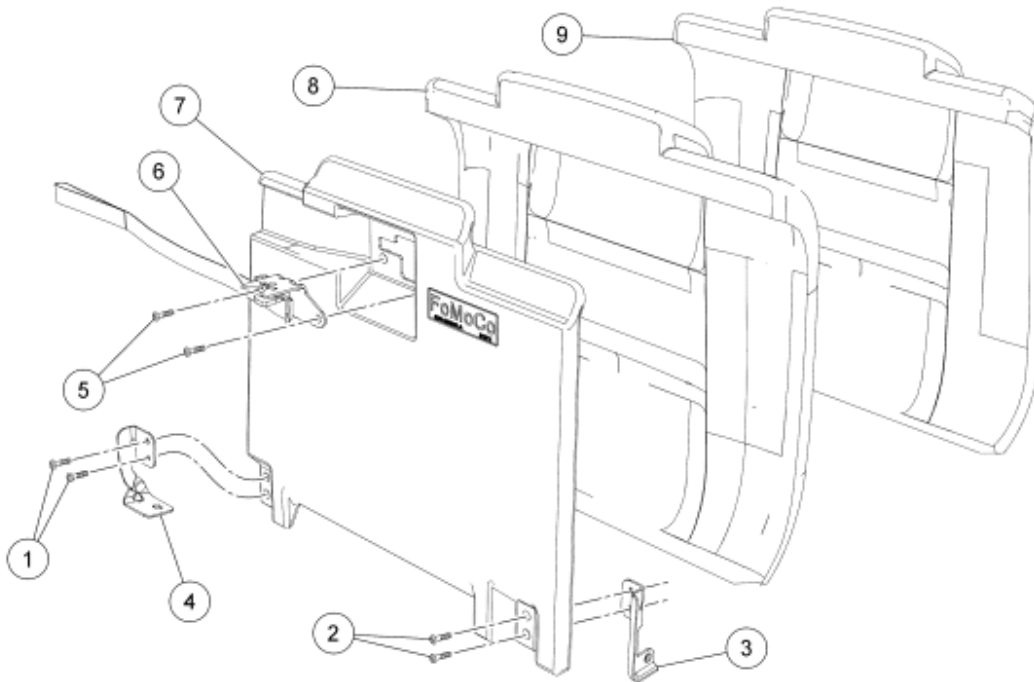
Fig. 84: Locating Hook, Loop Strips And Hog Rings
Courtesy of FORD MOTOR CO.

10. Attach the J-strip at the bottom of the backrest trim cover.
11. Slide the backrest recliner release bezel upward to engage the clip, install the screw.
12. Install the backrest recliner release handle.
13. Install the pin-type retainers attaching the backrest trim cover to the inboard and outboard recliners.

NOTE: The head restraint guides are not interchangeable.

14. Install the 2 head restraint guides.
15. Install the head restraint.
16. Install the front seat backrest. For additional information, refer to **Seat Backrest - Front**.
17. Install the seat. For additional information, refer to **Seat - Front**.
18. Repower the SRS. For additional information, refer to Supplemental Restraint System (SRS) Depowering and Repowering in the General Procedures portion of **SUPPLEMENTAL RESTRAINT SYSTEM** article.

SEAT BACKREST - REAR, COUPE



N0014078

Fig. 85: Exploded View Of Rear Seat Hard Top 50 Percent Backrest
Courtesy of FORD MOTOR CO.

Item	Part Number	Description
1	-	Rivets
2	-	Rivets
3	-	Inboard pivot bracket
4	60515	Outboard pivot bracket
5	-	Rivets
6	-	Backrest latch assembly
7	60509	Backrest panel

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8	-	Backrest foam pad
9	66601	Backrest trim cover

DISASSEMBLY

1. Remove the rear seat cushion. For additional information, refer to **Seat Cushion - Rear**.
2. Remove the rear seat backrest. For additional information, refer to **Seat Backrest - Rear**.
3. Release the backrest trim cover J-strip and remove the staples.
4. Pull the backrest panel out from the backrest foam pad and backrest trim cover.
 - Upon assembly, the latch release strap must come through the trim cover.
5. Remove the 4 rivets and the pivot brackets.
6. Remove the rivets, separate the pin-type retainer from the cable end and remove the backrest latch assembly.

CAUTION: Use care when separating the seat backrest trim cover from the hook-and-loop strip. The hook-and-loop strip can be torn from the seat backrest foam.

7. Release the hook-and-loop strips and separate the backrest trim cover from the backrest foam pad.
8. To assemble, reverse the disassembly procedure.