

SPECIFICATIONS**Torque Specifications**

Item	Nm	lb-ft	lb-in
Front seat retaining bolts	35	26	-
Front seat cushion base retaining bolts	23	17	-
Front seat backrest retaining bolts	27	20	-
Front seat safety belt buckle and pretensioner retaining bolt	47	35	-
Rear seat cushion retaining bolts	25	18	-
Rear seat backrest hinge retaining bolts	35	26	-
Rear seat backrest striker retaining bolts	25	18	-
Rear seat backrest outer pivot pin bush retaining bolt	35	26	-
Rear seat backrest latch retaining bolts	23	17	-
Rear center safety belt lower anchor and buckle assembly retaining bolt	55	41	-
Front seat height adjustment link retaining screw	10	-	89
Front seat backrest recliner motor retaining bolt	5	-	44
Rear seat backrest retaining screws - Convertible	22	16	-

DIAGNOSIS AND TESTING

Seats

Refer to Wiring Diagrams Section 501-10, for schematic and connector information.

Inspection and Verification

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

Visual Inspection Chart

Mechanical	Electrical
Damaged switch(es)	- Fuse(s) - Wiring harness - Electrical connector(s) - Motor(s) - Switch(es)

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 cause is not visually evident, verify the symptom and refer to the Symptom Chart.

Symptom Chart

Symptom Chart

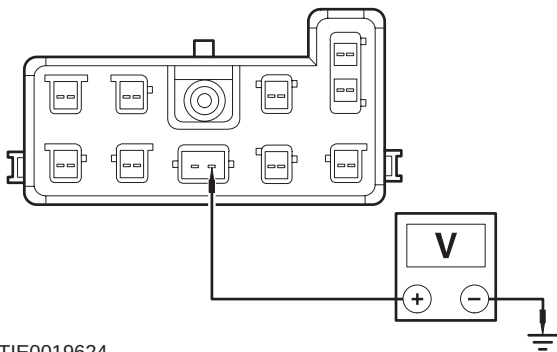
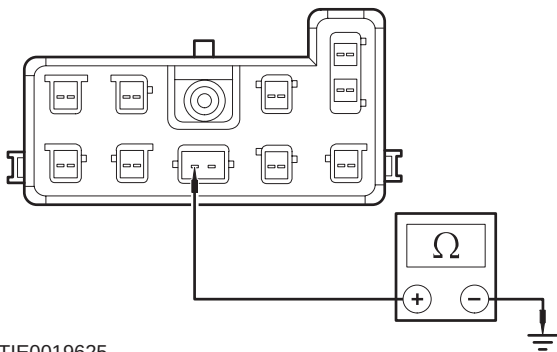
Symptom	Possible Sources	Action
The power seat is inoperative	Seat control switch.	CARRY OUT the Seat Control Switch Component Test. REFER to the Wiring Diagrams.
	- Motor(s). - Circuit(s).	GO to Pinpoint Test A.
The power seat does not move vertically	Seat control switch.	CARRY OUT the Seat Control Switch Component Test. REFER to the Wiring Diagrams.
	- Motor(s). - Circuit(s).	GO to Pinpoint Test B.
The power seat does not recline	Seat control switch.	CARRY OUT the Seat Control Switch Component Test. REFER to the Wiring Diagrams.
	- Motor. - Circuit(s).	GO to Pinpoint Test C.
The power seat does not move horizontally	Seat control switch.	CARRY OUT the Seat Control Switch Component Test. REFER to the Wiring Diagrams.
	- Motor. - Circuit(s).	GO to Pinpoint Test D.
The heated seat is inoperative	Heated seat control switch(es).	CARRY OUT the Heated Seat Control Switch Component Test. REFER to the Wiring Diagrams.
	Circuit(s).	GO to Pinpoint Test E.

DIAGNOSIS AND TESTING

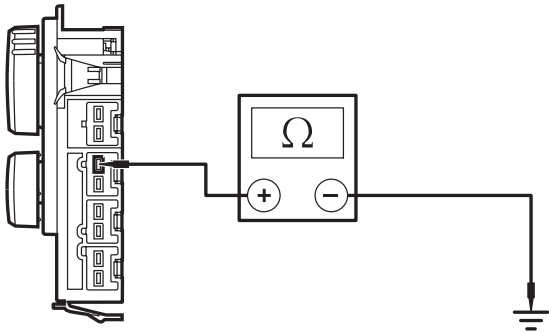
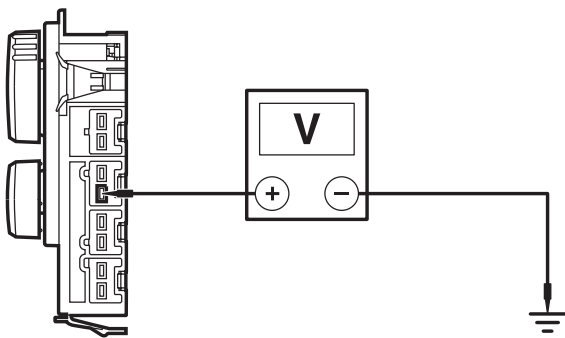
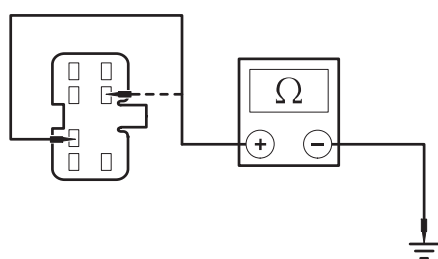
Pinpoint Tests

NOTE: Use a digital multimeter for all electrical measurements.

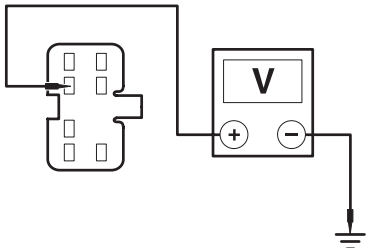
PINPOINT TEST A : THE POWER SEAT IS INOPERATIVE

TEST CONDITIONS	DETAILS/RESULTS/ACTIONS
A1: CHECK FOR VOLTAGE TO THE DRIVER POWER SEAT	
 TIE0019624	1 Disconnect Driver Power Seat Underseat Connector C30. 2 Ignition switch in position II.
	3 Measure the voltage between the driver power seat C30 pin 15, circuit 29-AH35 (OG/YE), harness side and ground. • Is the voltage greater than 10 volts? → Yes GO to A2. → No REPAIR circuit 29-AH35 (OG/YE). TEST the system for normal operation.
A2: CHECK THE DRIVER POWER SEAT GROUND CIRCUIT FOR CONTINUITY	
 TIE0019625	1 Ignition switch in position 0.
	2 Measure the resistance between the driver power seat C30 pin 16, circuit 31-DA14 (BK), harness side and ground. • Is the resistance less than 5 ohms? → Yes Vehicles with 6-way power seats GO to A3. Vehicles with 2-way power seats GO to A5. → No REPAIR circuit 31-DA14 (BK). TEST the system for normal operation.
A3: CHECK THE DRIVER POWER SEAT CONTROL SWITCH GROUND CIRCUIT FOR CONTINUITY	
	1 Connect Driver Power Seat Underseat Connector C30.
	2 Disconnect Driver Power Seat Control Switch C755.

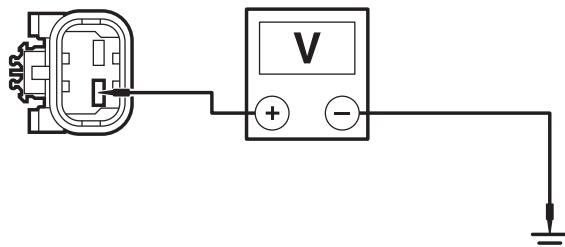
DIAGNOSIS AND TESTING

TEST CONDITIONS	DETAILS/RESULTS/ACTIONS
 E51577	3 Measure the resistance between the driver power seat control switch C755 pin 1, circuit 31-DA14 (BK), harness side and ground. Is the resistance less than 5 ohms? → Yes GO to A4. → No REPAIR circuit 31-DA14 (BK). TEST the system for normal operation.
A4: CHECK THE DRIVER POWER SEAT CONTROL SWITCH POWER CIRCUIT FOR CONTINUITY	
 E51578	1 Ignition switch in position II. 2 Measure the voltage between the driver power seat control switch C755 pin 2, circuit 29-AH35 (OG/YE), harness side and ground. Is the voltage greater than 10 volts? → Yes VERIFY the customer concern. → No REPAIR circuit 29-AH35 (OG/YE). TEST the system for normal operation.
A5: CHECK THE DRIVER POWER SEAT CONTROL SWITCH GROUND CIRCUIT FOR CONTINUITY	
	1 Connect Driver Power Seat Underseat Connector C30. 2 Disconnect Driver Power Seat Control Switch C715.
 TIE0014346	3 Measure the resistance between the: - driver power seat control switch C715 pin 3, circuit 31-AH35 (BK), harness side and ground. - driver power seat control switch C715 pin 6, circuit 31-AH35A (BK), harness side and ground. - Are the resistances less than 5 ohms? → Yes GO to A6. → No REPAIR circuit 31-AH35 (BK) or circuit 31-AH35A (BK). TEST the system for normal operation.

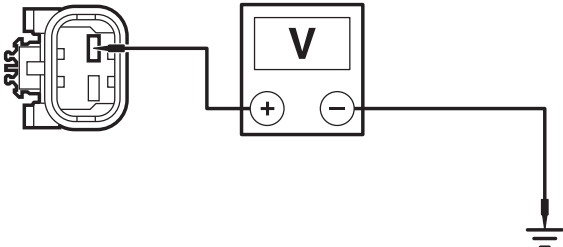
DIAGNOSIS AND TESTING

TEST CONDITIONS	DETAILS/RESULTS/ACTIONS
A6: CHECK THE DRIVER POWER SEAT CONTROL SWITCH POWER CIRCUIT FOR CONTINUITY	
 TIE0014348	1 Ignition switch in position II.
	2 Measure the voltage between the driver power seat control switch C715 pin 2, circuit 29-AH35 (OG/YE), harness side and ground. • Is the voltage greater than 10 volts? → Yes VERIFY the customer concern. → No REPAIR circuit 29-AH35 (OG/YE). TEST the system for normal operation.

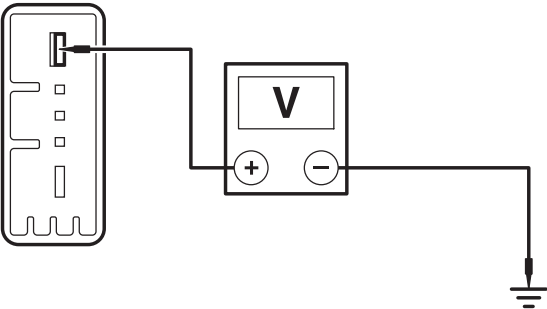
PINPOINT TEST B : THE POWER SEAT DOES NOT MOVE VERTICALLY

TEST CONDITIONS	DETAILS/RESULTS/ACTIONS
B1: CHECK THE DOWN VOLTAGE TO THE SEAT HEIGHT ADJUSTMENT MOTOR	
 E51579	1 Detach the seat assembly from the floor panel. 2 Disconnect Seat Height Adjustment Motor C759. 3 Ignition switch in position II.
	4 Operate the power seat height control switch to the DOWN position and measure the voltage between the seat height adjustment motor C759 pin 1, circuit 33-AH38 (YE/BK), harness side and ground. • Is the voltage greater than 10 volts? → Yes GO to B2. → No REPAIR circuit 33-AH38 (YE/BK). TEST the system for normal operation.

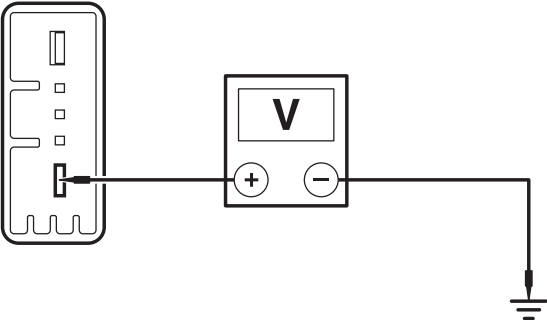
DIAGNOSIS AND TESTING

TEST CONDITIONS	DETAILS/RESULTS/ACTIONS
B2: CHECK THE UP VOLTAGE TO THE SEAT HEIGHT ADJUSTMENT MOTOR	
 E51580	1 Operate the power seat height control switch to the UP position and measure the voltage between the seat height adjustment motor C759 pin 2, circuit 32-AH38 (WH/BK), harness side and ground. • Is the voltage greater than 10 volts? → Yes INSTALL a new front seat height adjustment motor. REFER to: Front Seat Height Adjustment Motor (501-10 Seating, Removal and Installation). TEST the system for normal operation. → No REPAIR circuit 32-AH38 (WH/BK). TEST the system for normal operation.

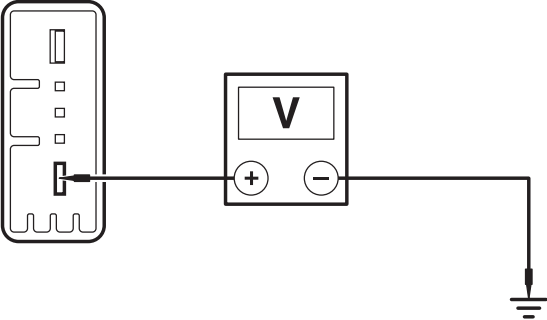
PINPOINT TEST C : THE POWER SEAT DOES NOT RECLINE

TEST CONDITIONS	DETAILS/RESULTS/ACTIONS
C1: CHECK THE REARWARD VOLTAGE TO THE SEAT BACKREST MOVEMENT MOTOR	
 E51581	1 Detach the seat assembly from the floor panel. 2 Disconnect Seat Backrest Motor C760. 3 Ignition switch in position II.
	4 Operate the power seat backrest control switch to the REARWARD position and measure the voltage between the seat backrest movement motor C760 pin 5, circuit 33-AH36 (YE/RD), harness side and ground. • Is the voltage greater than 10 volts? → Yes GO to C2. → No REPAIR circuit 33-AH36 (YE/RD). TEST the system for normal operation.

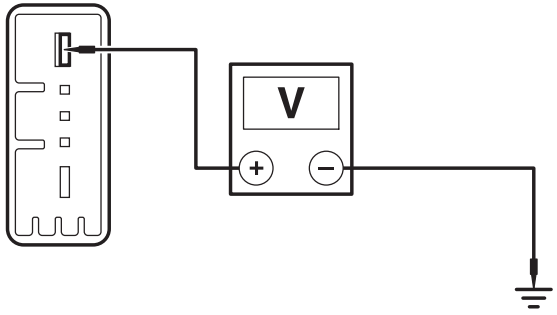
DIAGNOSIS AND TESTING

TEST CONDITIONS	DETAILS/RESULTS/ACTIONS
C2: CHECK THE FORWARD VOLTAGE TO THE SEAT BACKREST MOVEMENT MOTOR	
 E51582	1 Operate the power seat backrest control switch to the FORWARD position and measure the voltage between the seat backrest movement motor C760 pin 1, circuit 32-AH36 (WH/RD), harness side and ground. • Is the voltage greater than 10 volts? → Yes INSTALL a new seat backrest movement motor. REFER to: Front Seat Backrest - 3-Door (501-10 Seating, Disassembly and Assembly) / Front Seat Backrest - 4-Door/5-Door/Wagon (501-10 Seating, Disassembly and Assembly). TEST the system for normal operation. → No REPAIR circuit 32-AH36 (WH/RD). TEST the system for normal operation.

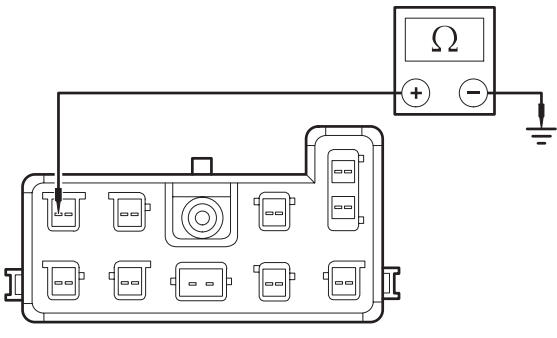
PINPOINT TEST D : THE POWER SEAT DOES NOT MOVE HORIZONTALLY

TEST CONDITIONS	DETAILS/RESULTS/ACTIONS
D1: CHECK THE REARWARD VOLTAGE TO THE FRONT SEAT TRACK MOTOR	
 E51582	1 Detach the seat assembly from the floor panel. 2 Disconnect Front Seat Track Motor C761. 3 Ignition switch in position II.
	4 Operate the front seat track motor control switch to the REARWARD position and measure the voltage between the front seat track motor C761 pin 1, circuit 33-AH37 (YE/GN), harness side and ground. • Is the voltage greater than 10 volts? → Yes GO to D2. → No REPAIR circuit 33-AH37 (YE/GN). TEST the system for normal operation.

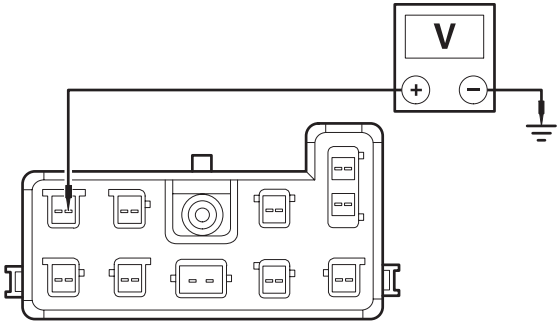
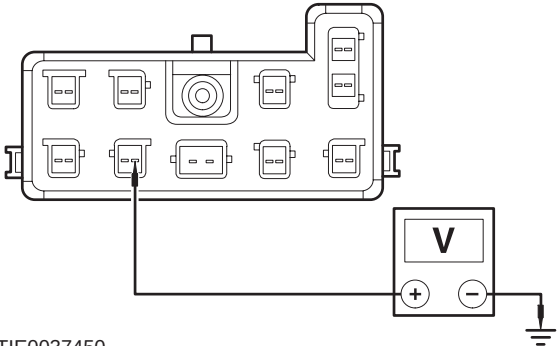
DIAGNOSIS AND TESTING

TEST CONDITIONS	DETAILS/RESULTS/ACTIONS
D2: CHECK THE FORWARD VOLTAGE TO THE FRONT SEAT TRACK MOTOR	
 E51581	1 Operate the front seat track motor control switch to the FORWARD position and measure the voltage between the front seat track motor C761 pin 5, circuit 32-AH37 (WH/GN), harness side and ground. Is the voltage greater than 10 volts? → Yes INSTALL a new front seat track motor. REFER to: Front Seat Track Motor (501-10 Seating, Removal and Installation). TEST the system for normal operation. → No REPAIR circuit 32-AH37 (WH/GN). TEST the system for normal operation.

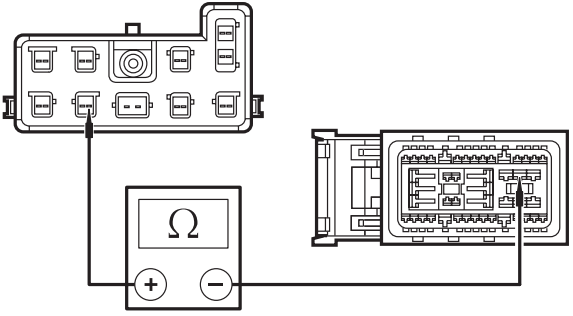
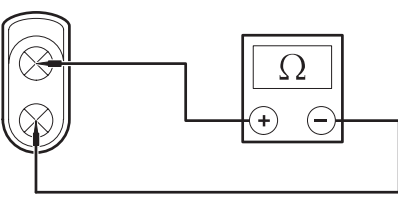
PINPOINT TEST E : THE HEATED SEAT IS INOPERATIVE

TEST CONDITIONS	DETAILS/RESULTS/ACTIONS
E1: CHECK THE INOPERATIVE HEATED SEAT GROUND CIRCUIT	
 TIE0037451	1 Disconnect Inoperative Heated Seat C30 or C31. 2 Measure the resistance between the: - Left-hand drive vehicles - driver heated seat C30 pin 10, circuit 31-HC8 (BK), harness side and ground. - passenger heated seat C31 pin 10, circuit 31-HC11 (BK), harness side and ground. - Right-hand drive vehicles - driver heated seat C30 pin 10, circuit 31-HC11 (BK), harness side and ground. - passenger heated seat C31 pin 10, circuit 31-HC8 (BK), harness side and ground. - Is the resistance less than 5 ohms? → Yes GO to E2. → No REPAIR circuit 31-HC8 (BK) or circuit 31-HC11 (BK). TEST the system for normal operation.
E2: CHECK FOR BATTERY VOLTAGE TO THE INOPERATIVE HEATED SEAT	
	1 Ignition switch in position II.

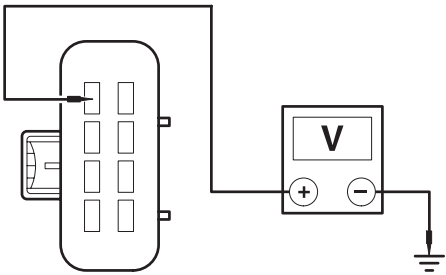
DIAGNOSIS AND TESTING

TEST CONDITIONS	DETAILS/RESULTS/ACTIONS
 TIE0019634	2 Measure the voltage between the: – Left-hand drive vehicles • driver heated seat C30 pin 9, circuit 15-HC8 (GN/RD), harness side and ground. • passenger heated seat C31 pin 9, circuit 15-HC11 (GN/WH), harness side and ground. – Right-hand drive vehicles • driver heated seat C30 pin 9, circuit 15-HC11 (GN/WH), harness side and ground. • passenger heated seat C31 pin 9, circuit 15-HC8 (GN/RD), harness side and ground. • Is the voltage greater than 10 volts? → Yes GO to E3. → No REPAIR circuit 15-HC8 (GN/RD) or circuit 15-HC11 (GN/WH). TEST the system for normal operation.
E3: CHECK FOR SWITCH VOLTAGE TO THE INOPERATIVE HEATED SEAT	
 TIE0037450	1 Operate the heated seat control switch. 2 Measure the voltage between the: – Left-hand drive vehicles • driver heated seat C30 pin 17, circuit 15S-HC8 (GN/RD), harness side and ground. • passenger heated seat C31 pin 17, circuit 15S-HC11 (GN/WH), harness side and ground. – Right-hand drive vehicles • driver heated seat C30 pin 17, circuit 15S-HC11 (GN/WH), harness side and ground. • passenger heated seat C31 pin 17, circuit 15S-HC8 (GN/RD), harness side and ground. • Is the voltage greater than 10 volts? → Yes GO to E4. → No GO to E6.
E4: CHECK THE HEATED SEAT SUPPLY CIRCUIT FOR CONTINUITY	
	1 Disconnect Fuse 70.
	2 Disconnect Passenger Junction Box C102.

DIAGNOSIS AND TESTING

TEST CONDITIONS	DETAILS/RESULTS/ACTIONS
 E52019	3 Measure the resistance between the passenger junction box C102 pin 5, circuit 15-DA4 (GN/BK), harness side and the driver heated seat C30 pin 17, circuit 15S-HC8 (GN/RD), harness side. Is the resistance between 2,600 and 7,800 ohms? → Yes GO to E5. → No INSTALL a new heated seat control switch. REFER to: Heated Seat Switch (501-10 Seating, Removal and Installation). TEST the system for normal operation.
E5: CHECK THE HEATED SEAT BACKREST HEATER MAT FOR CONTINUITY	
	1 Ignition switch in position 0. 2 Disconnect Inoperative Heated Seat Backrest.
 TIE0013081	3 Measure the resistance between the heated seat backrest pins 1 and 2, component side. Is the resistance less than 9 ohms? → Yes INSTALL a new heated seat cushion heater mat and heater module. TEST the system for normal operation. → No INSTALL a new heated seat backrest heater mat. REFER to: Front Seat Backrest - 3-Door (501-10 Seating, Disassembly and Assembly) / Front Seat Backrest - 4-Door/5-Door/Wagon (501-10 Seating, Disassembly and Assembly). TEST the system for normal operation.
E6: CHECK FOR VOLTAGE TO THE HEATED SEAT CONTROL SWITCH	
	1 Ignition switch in position 0. 2 Disconnect Inoperative Heated Seat Control Switch C694 or C695. 3 Ignition switch in position II.

DIAGNOSIS AND TESTING

TEST CONDITIONS	DETAILS/RESULTS/ACTIONS
 TIE0019639	4 Measure the voltage between the: • inoperative left-hand heated seat control switch C694 pin 4, circuit 15-HC14 (GN/YE), harness side and ground. • inoperative right-hand heated seat control switch C695 pin 4, circuit 15-HC9 (GN/BK), harness side and ground. • Is the voltage greater than 10 volts? → Yes REPAIR circuit 15S-HC8 (GN/RD) or circuit 15S-HC11 (GN/WH). TEST the system for normal operation. → No REPAIR circuit 15-HC9 (GN/BK) or circuit 15-HC14 (GN/YE). TEST the system for normal operation.

REMOVAL AND INSTALLATION

Front Seat

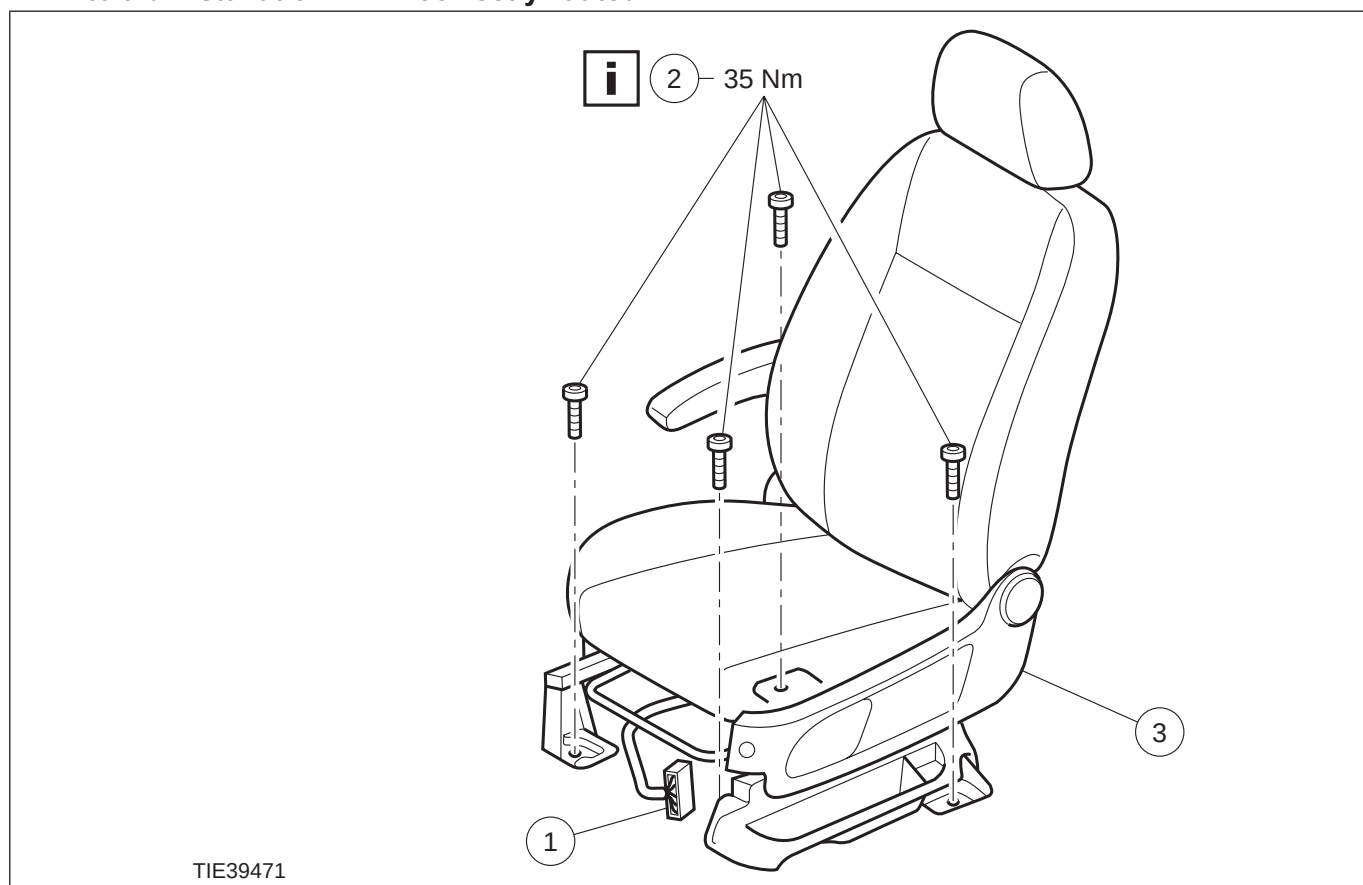
WARNINGS:

⚠ To avoid accidental deployment, the air bag control module backup power supply must be depleted. Wait at least one minute after disconnecting the battery ground cable(s) before commencing any repair or adjustment to the supplemental restraint system (SRS), or any component(s) adjacent to the SRS sensors. Failure to follow these instructions may result in personal injury.

⚠ Note the position of the wiring harnesses, to aid installation. An incorrectly routed

wiring harness could become damaged when the seat is moved. Failure to follow this instruction may result in personal injury.

1. Disconnect the battery ground cable.
2. Remove the components in the order indicated in the following illustration(s) and table(s).



Item	Description
1	Underseat connector
2	Front seat retaining bolts See Installation Detail
3	Front seat

All vehicles

3. To install, reverse the removal procedure.

Vehicles with front and rear power windows

4. Initialize the door window motors. For additional information, refer to Section [501-11 \[Glass, Frames and Mechanisms\]](#).

REMOVAL AND INSTALLATION**Installation Details****Item 2 Front seat retaining bolts****1. Install the front seat retaining bolts in the following sequence.**

1. Rear inner retaining bolt.
2. Rear outer retaining bolt.
3. Front outer retaining bolt.
4. Front inner retaining bolt.

REMOVAL AND INSTALLATION

Front Seat — 2.5L Duratec-RS (224kW/305PS) - VI5(40 100 0;
40 100 4; 40 101 0)

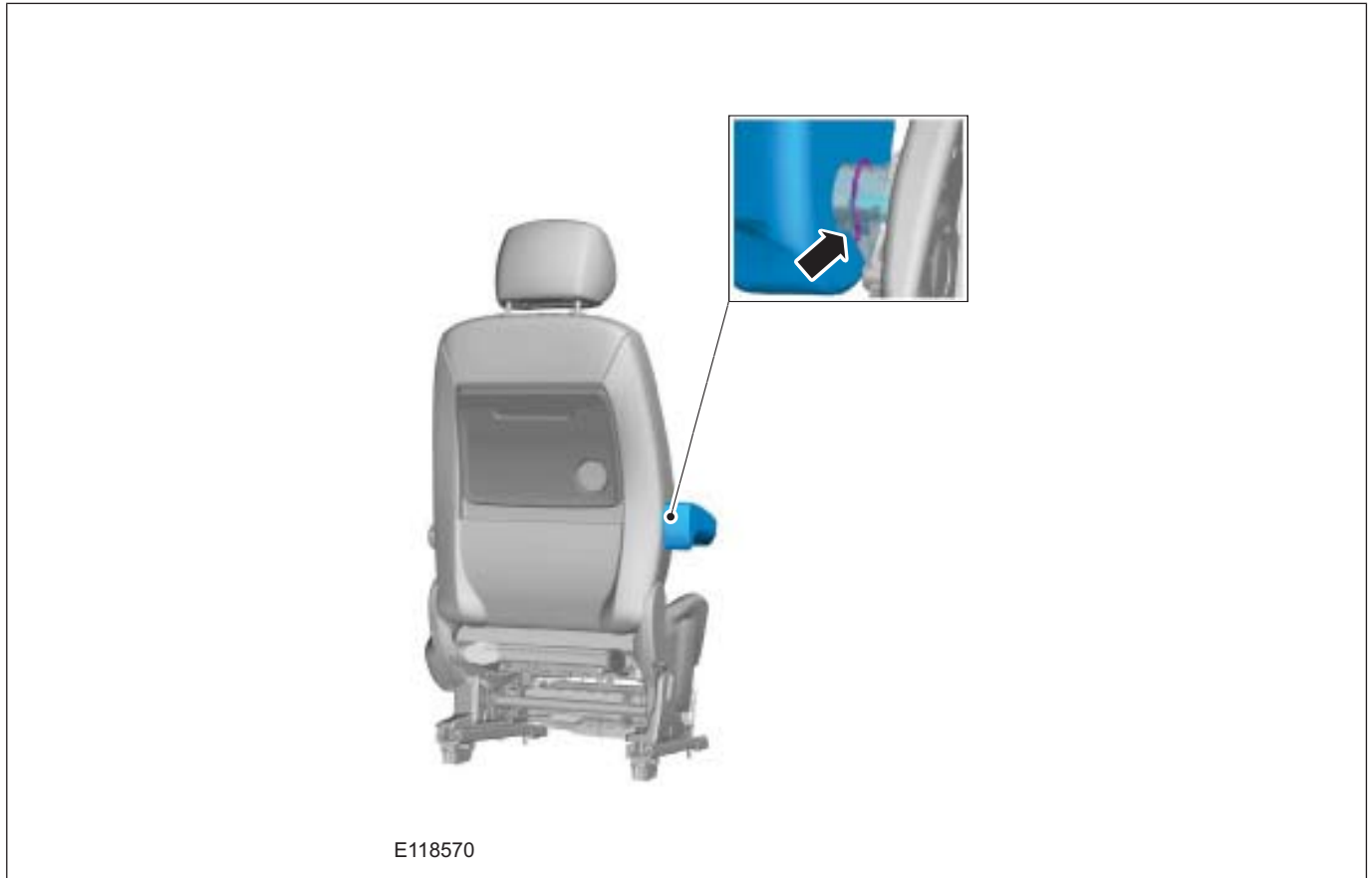
Removal

NOTE: Removal steps in this procedure may contain installation details.

1. Torque: 40 Nm

**Installation**

1. To install, reverse the removal procedure.

REMOVAL AND INSTALLATION**Front Seat Armrest****Removal****1.****Installation****1.** To install, reverse the removal procedure.

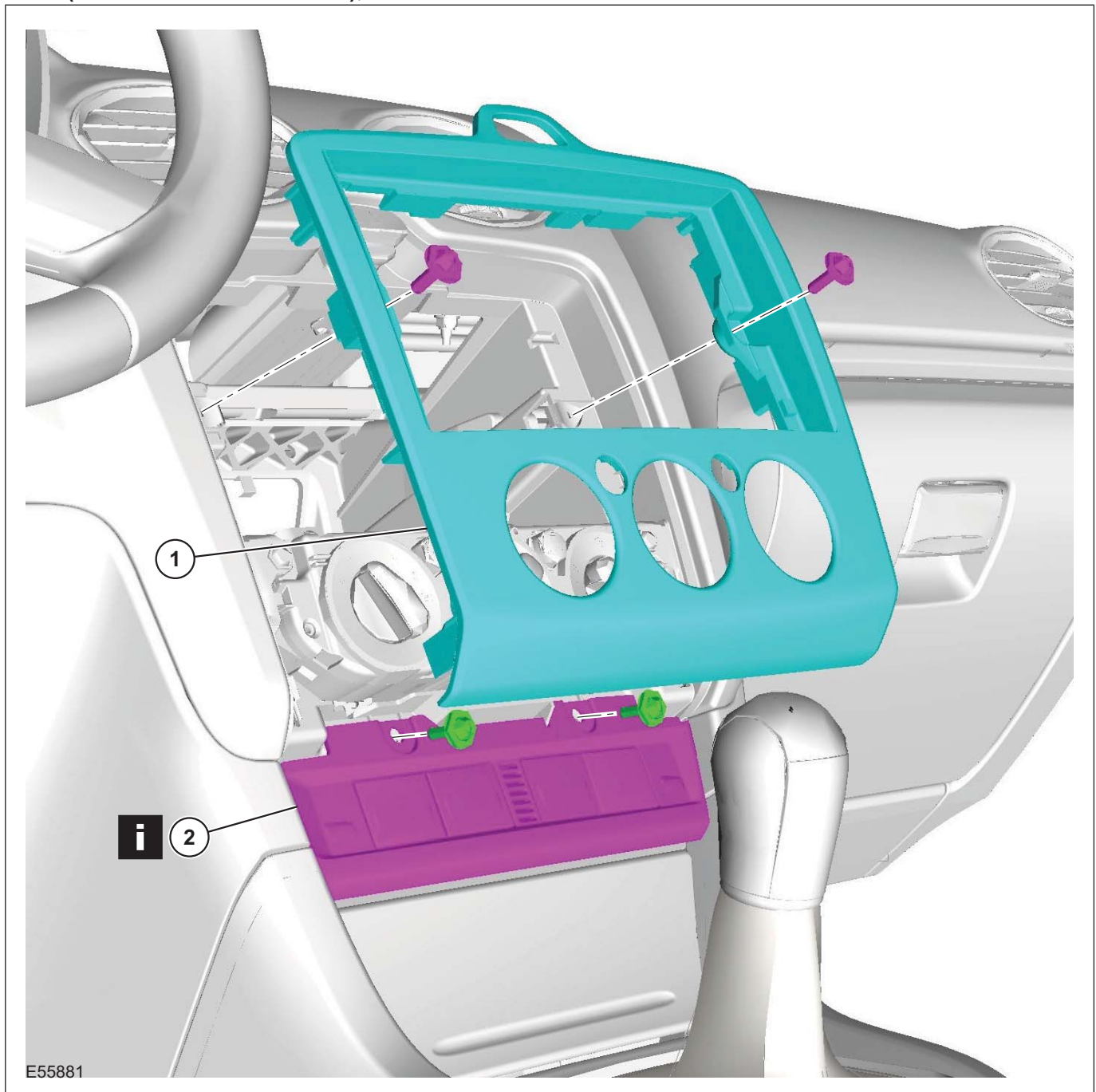
REMOVAL AND INSTALLATION

Heated Seat Switch

1. Remove the audio unit. For additional information, refer to: (415-01 Audio Unit)

Audio Unit - Vehicles Built From: 03/2007
(Removal and Installation),

2. Remove the components in the order indicated in the following illustration(s) and table(s).

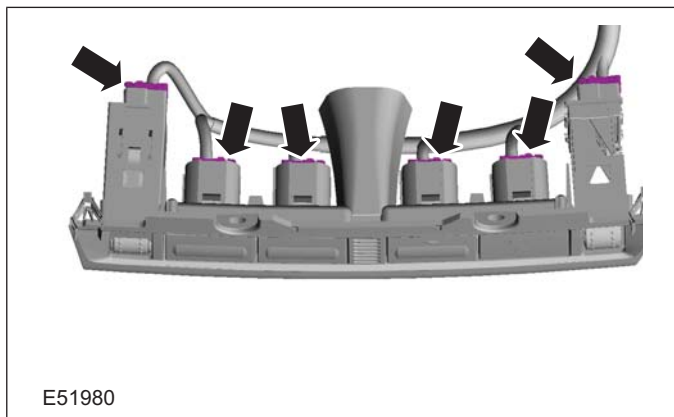


Item	Description
1	Instrument panel console
2	Instrument panel console switch panel assembly See Removal Detail

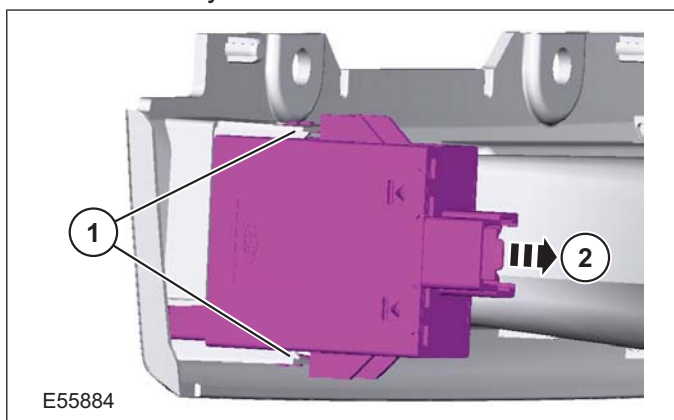
3. To install, reverse the removal procedure.

REMOVAL AND INSTALLATION**Removal Details****Item 2 Instrument panel console switch panel assembly**

1. Disconnect the instrument panel console switch panel assembly electrical connectors.

**2. Remove the heated seat switch.**

1. Release the retaining clips.
2. Slide the heated seat switch out of the instrument panel console switch panel assembly.



REMOVAL AND INSTALLATION

Front Seat Height Adjustment Motor(33 797 0; 33 797 4)

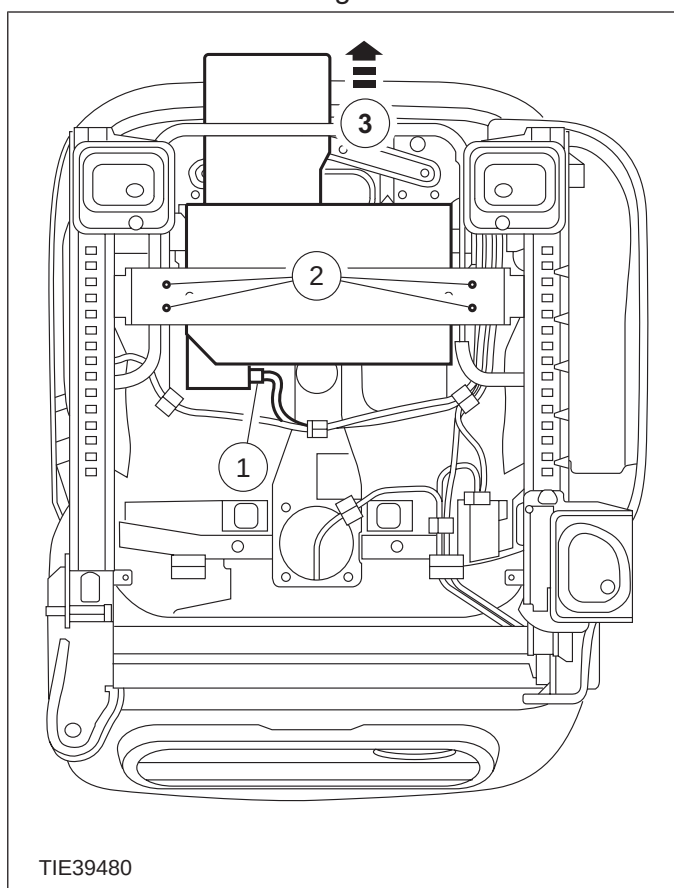
General Equipment

Electric hand drill
Blind rivet hand-gun

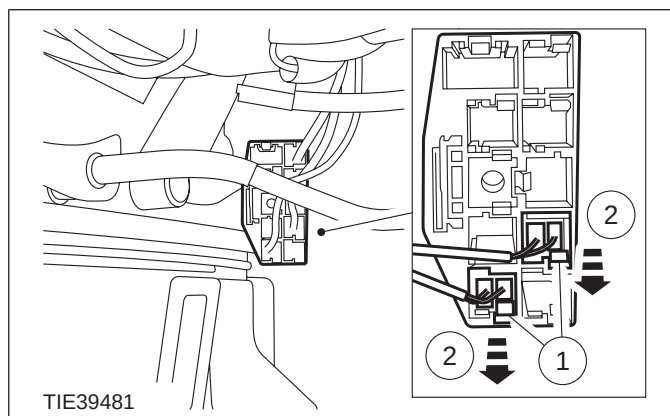
Removal

1. Remove the compact disc (CD) changer (if equipped).

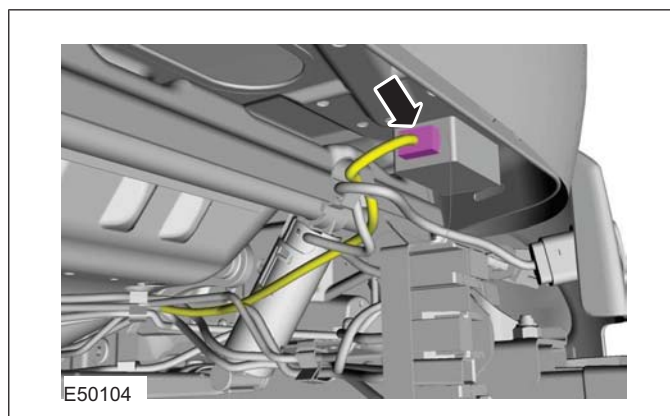
1. Disconnect the CD changer electrical connector.
2. Using a suitable electric hand drill, remove the rivets.
3. Slide the CD changer forwards.



2. Detach the electrical connectors.



3. Detach the heated seat module electrical connector (if equipped).



4. Detach the electrical harnesses from the underside of the front seat cushion.

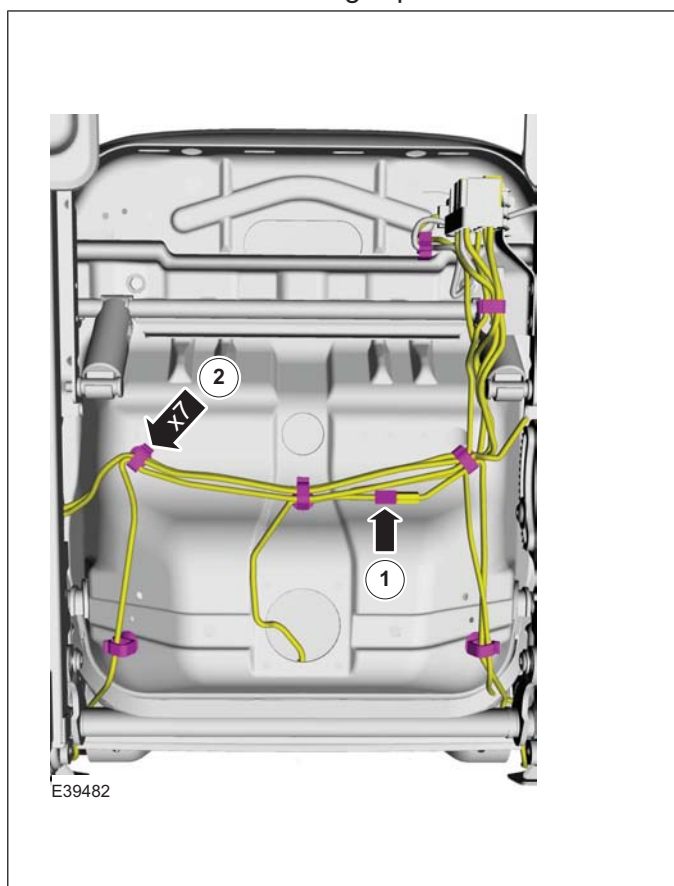
1. Disconnect the electrical connectors.

2. Detach the heater mat electrical connectors from the underside of the seat (if equipped).

1. Using a suitable screwdriver, depress the locking tangs.

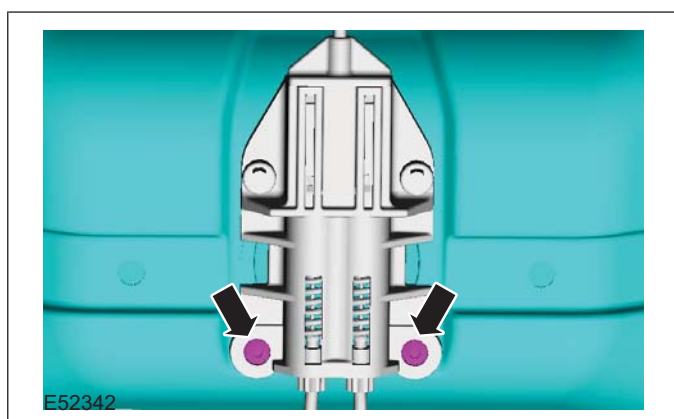
REMOVAL AND INSTALLATION

2. Detach the retaining clips.

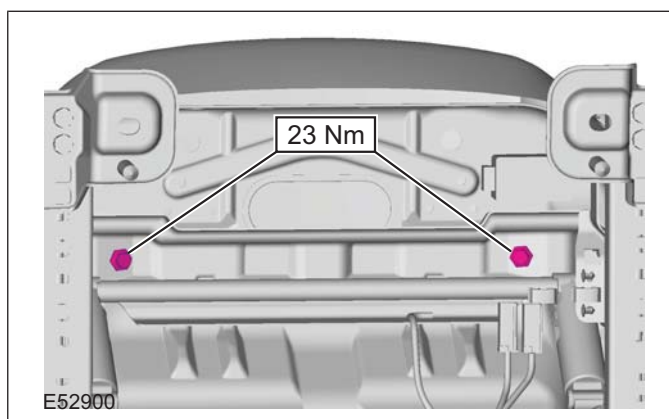


5. Detach the seat track release cable assembly from the underside of the front seat cushion (if equipped).

- Using a suitable electric hand drill, remove the rivets.



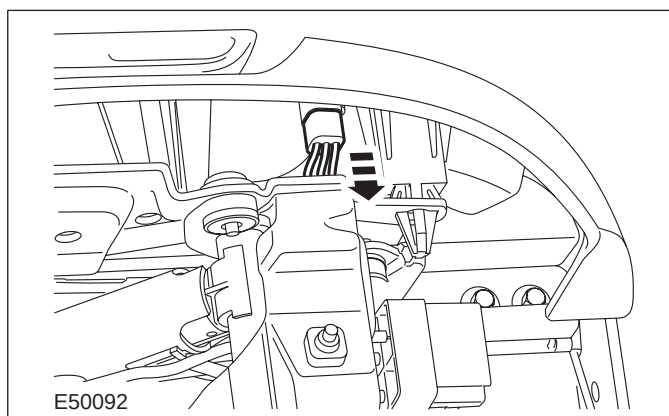
6. Remove the front seat cushion.



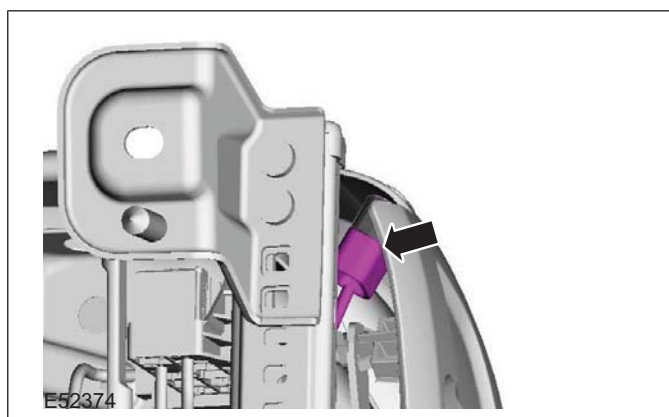
7. **CAUTION:** To avoid damage to the front seat backrest recliner handwheel, even pressure must be applied to the opposite sides of the handwheel.

Remove the front seat backrest recliner handwheel (if equipped).

8. Disconnect the front seat position adjustment switch electrical connector(s).



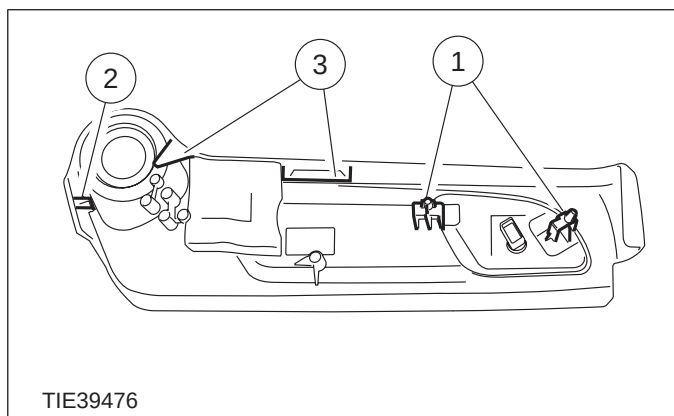
9. Disconnect the adjustable clutch pedal and adjustable brake pedal switch electrical connector (if equipped).



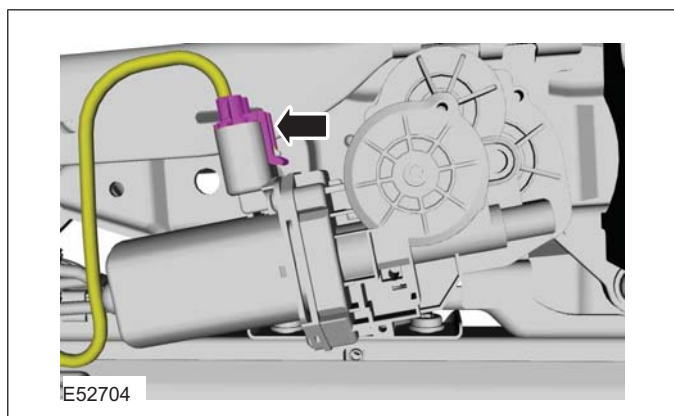
REMOVAL AND INSTALLATION

10. Remove the seat track outer side trim panel.

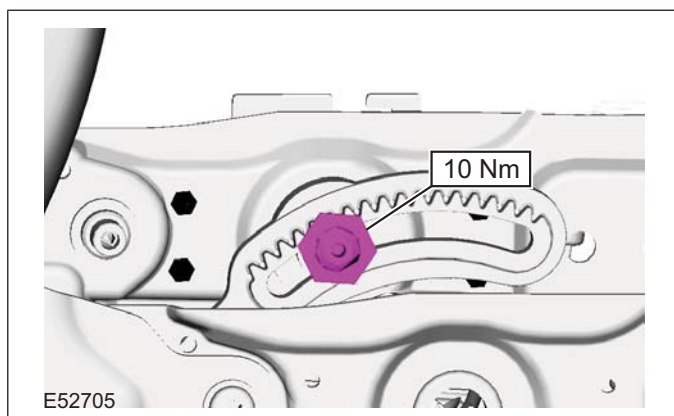
- Release the retaining clips in the sequence shown.



11. Disconnect the front seat height adjustment motor electrical connector.

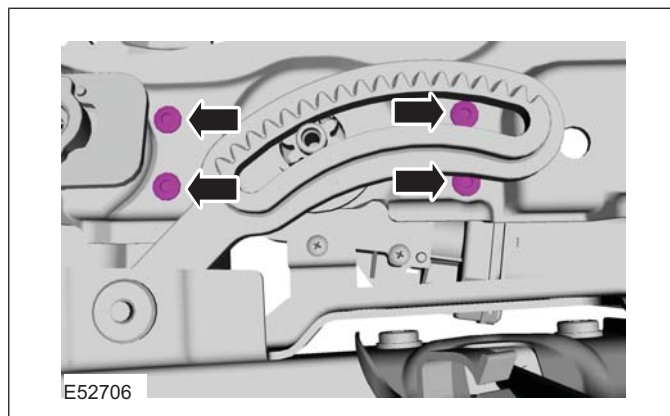


12. Remove the front seat height adjustment motor regulator retaining screw and washer.



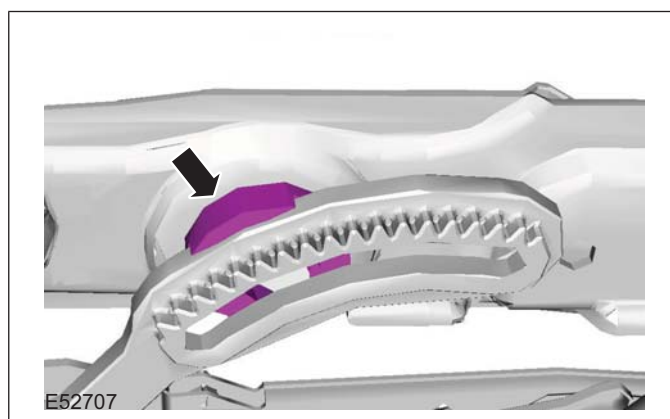
13. Remove the front seat height adjustment motor.

- Using a suitable electric hand drill, remove the rivets.



14. NOTE: Note the position of the front seat height adjustment motor spacer, to aid installation.

Remove the front seat height adjustment motor spacer.



Installation

- NOTE: Using a suitable blind rivet hand-gun, install new rivets.

To install, reverse the removal procedure.

REMOVAL AND INSTALLATION

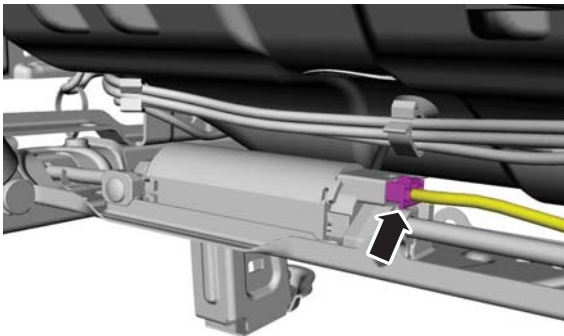
Front Seat Track Motor(33 784 0; 33 784 4)

Removal

1. Remove the front seat.

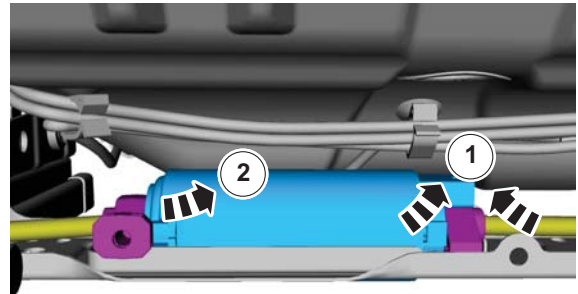
For additional information, refer to: **Front Seat** (501-10 Seating, Removal and Installation).

2. Disconnect the front seat track motor electrical connector.



E52701

2. Detach the front seat track motor from the short front seat track operating cable.



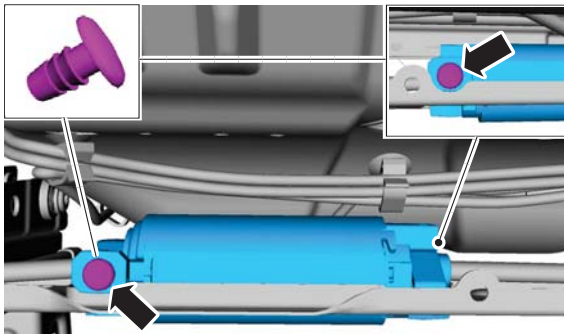
E52703

Installation

1. To install, reverse the removal procedure.

3. Detach the front seat track motor from the front seat track motor retaining bracket.

- Release the retaining clips on both sides.



E52702

4. Remove the front seat track motor.

1. Detach the front seat track motor from the long front seat track operating cable.

REMOVAL AND INSTALLATION

Front Seat Backrest Cover — 2.5L Duratec-ST (VI5)(40 108 0)

Removal

All vehicles

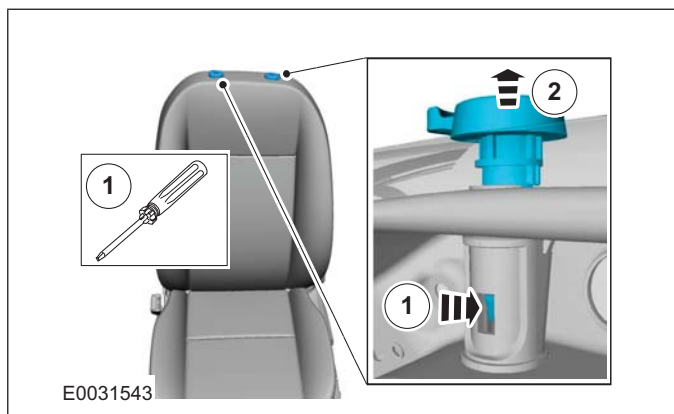
CAUTION: Take extra care not to damage the wiring harnesses.

NOTE: Removal steps in this procedure may contain installation details.

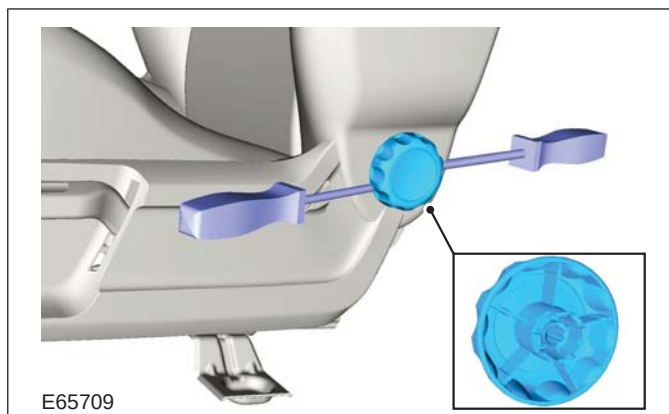
1.



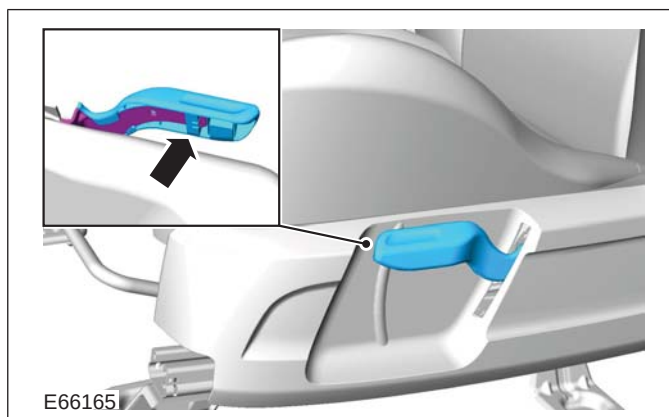
2.



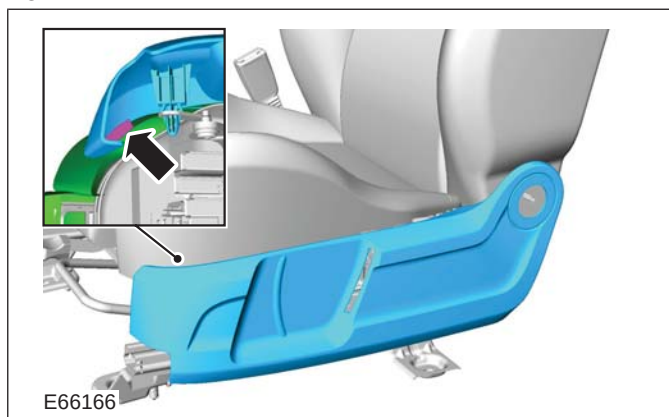
3.



4.



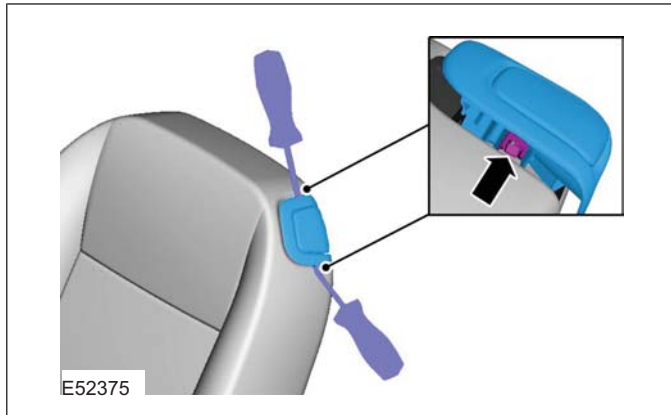
5.



REMOVAL AND INSTALLATION

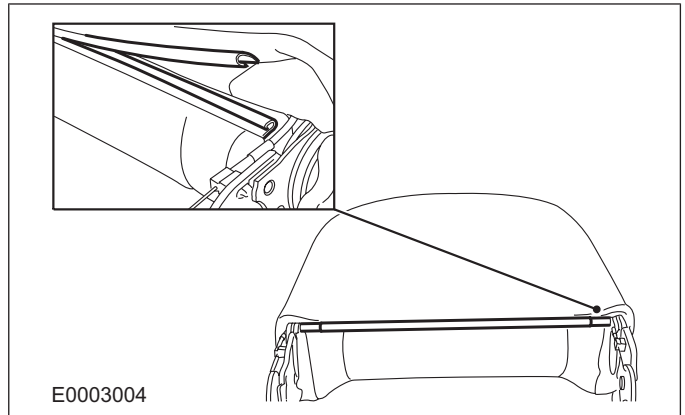
3-door

6.

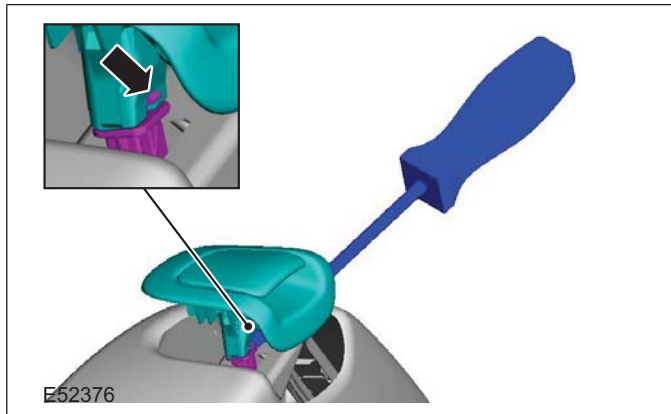


All vehicles

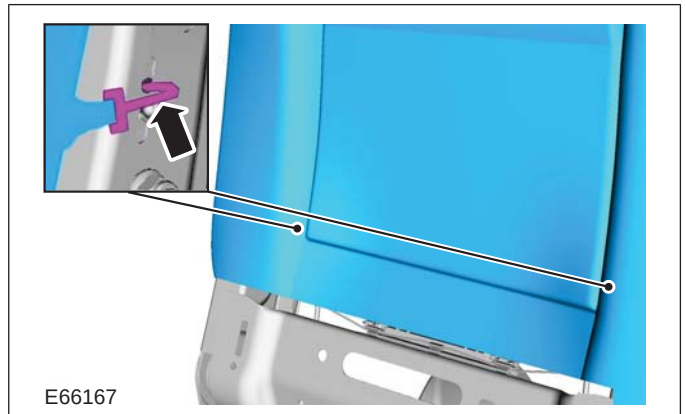
9.



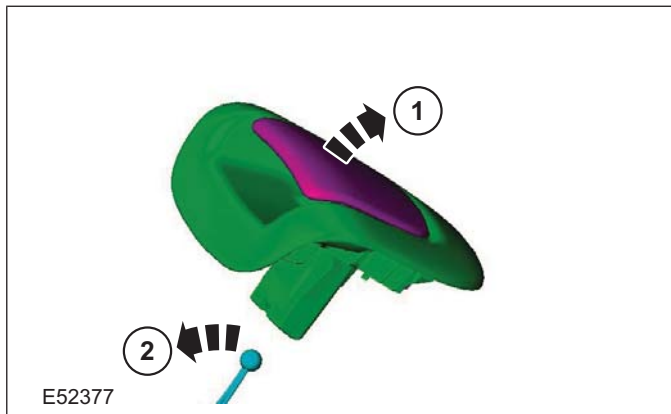
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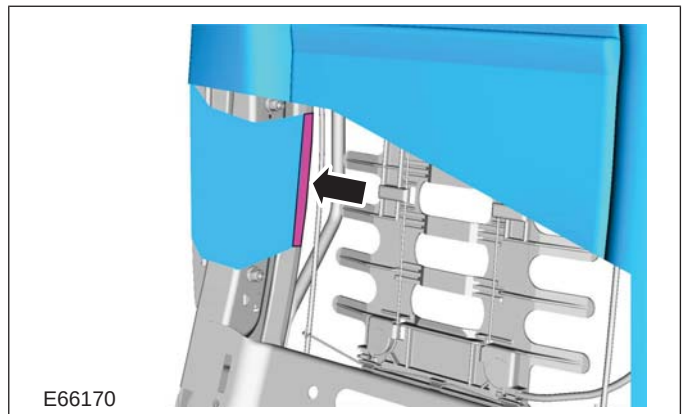
10.



8.

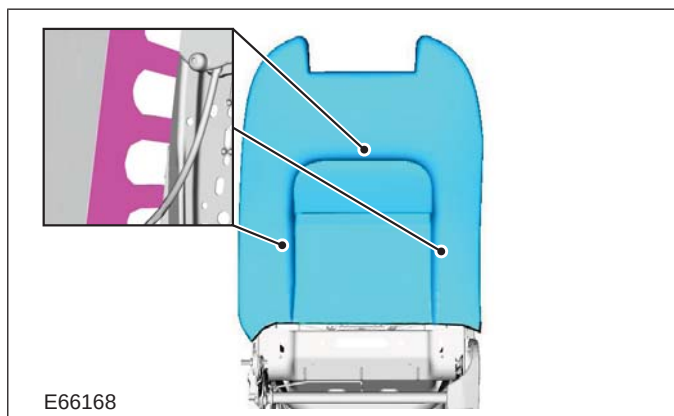


11.



REMOVAL AND INSTALLATION

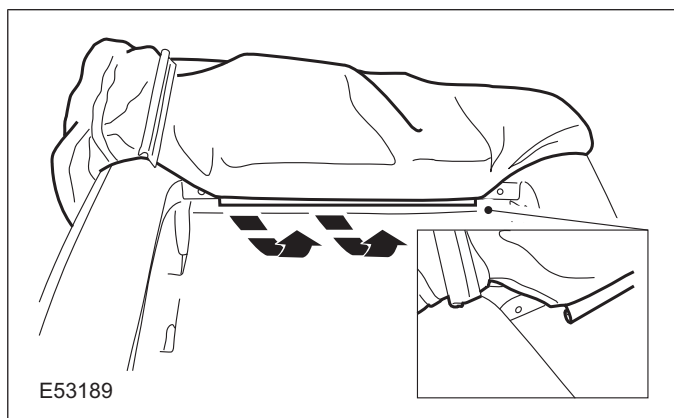
12



13.  **CAUTION:** Equal pressure should be applied to both surfaces of the hook loop tape.



14.



3-door

15.



Installation

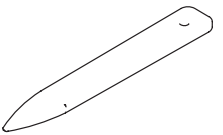
-  **WARNING:** Make sure that the seat backrest heater mat (if equipped) is correctly located with the seat backrest cover hook loop tape.

1. To install, reverse the removal procedure.

REMOVAL AND INSTALLATION

Front Seat Backrest Cover — 2.5L Duratec-RS (224kW/305PS) - VI5(40 108 0)

Special Tool(s)

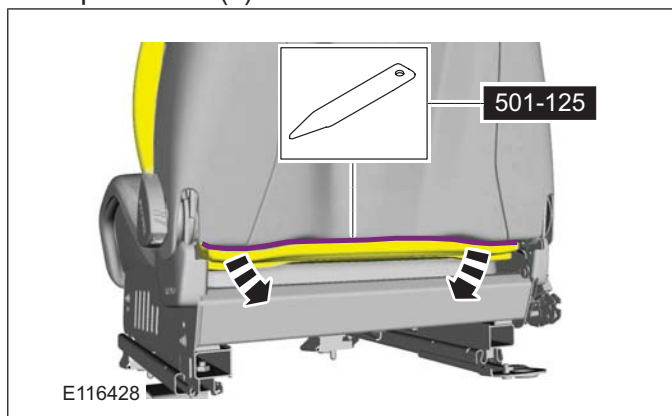
 E84511	501-125 Remover, Grab Handle Cover
---	---

Removal

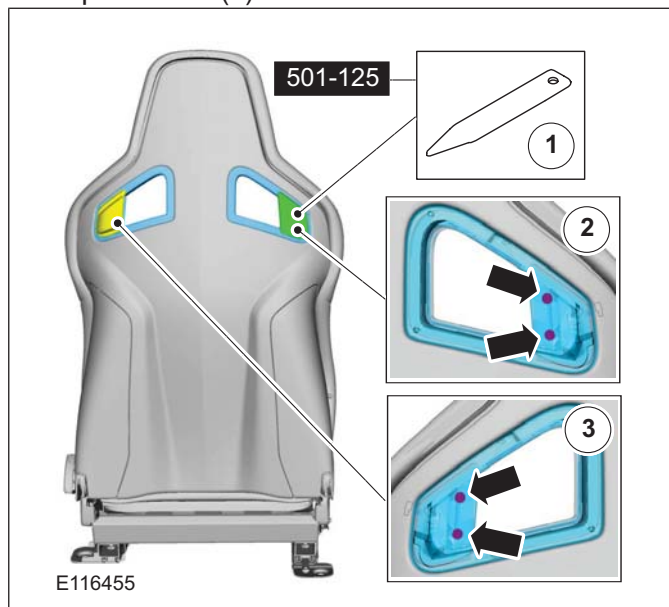
NOTE: Removal steps in this procedure may contain installation details.

1. Refer to: Front Seat - 2.5L Duratec-RS (224kW/305PS) - VI5 (501-10 Seating, Removal and Installation).

2. Special Tool(s): 501-125



3. Special Tool(s): 501-125



4. Special Tool(s): 501-125

**Installation**

1. To install, reverse the removal procedure.

REMOVAL AND INSTALLATION

Front Seat Cushion Cover — 2.5L Duratec-ST (166kW/226PS) - VI5(40 105 0)

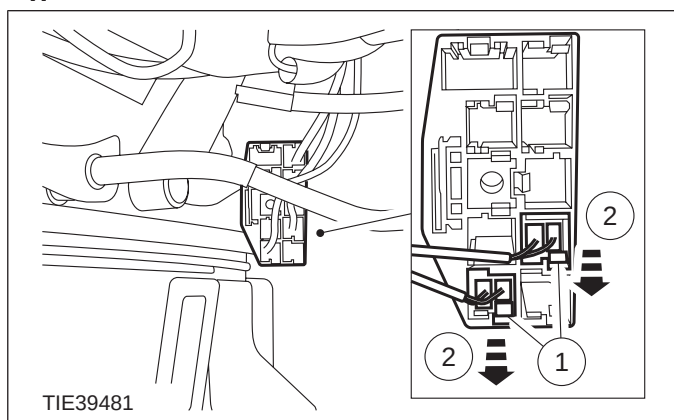
Removal

All vehicles

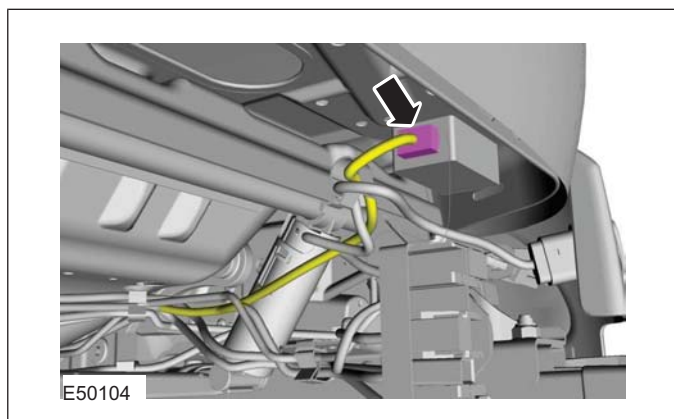
⚠ CAUTION: Take extra care not to damage the wiring harnesses.

NOTE: Removal steps in this procedure may contain installation details.

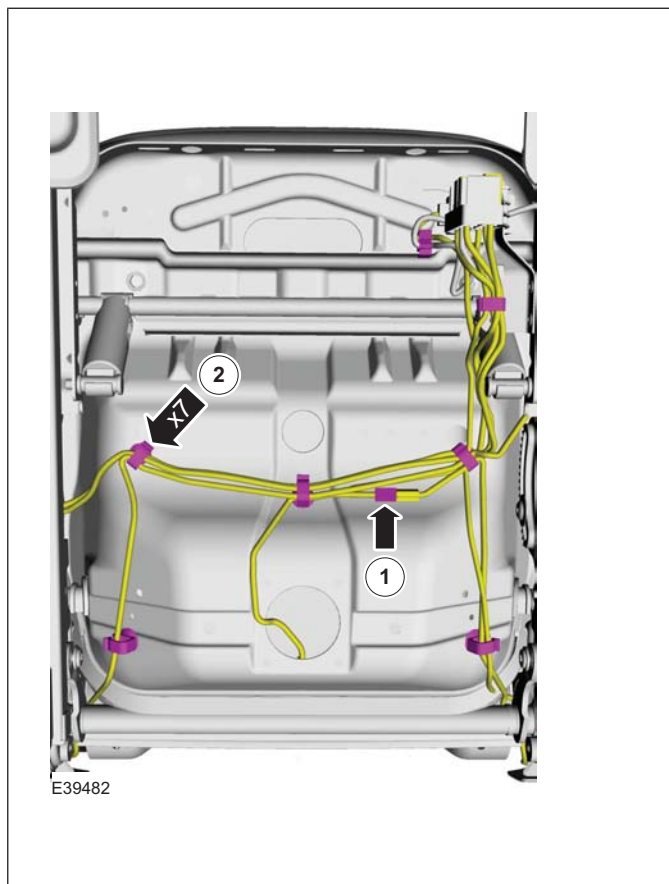
1.



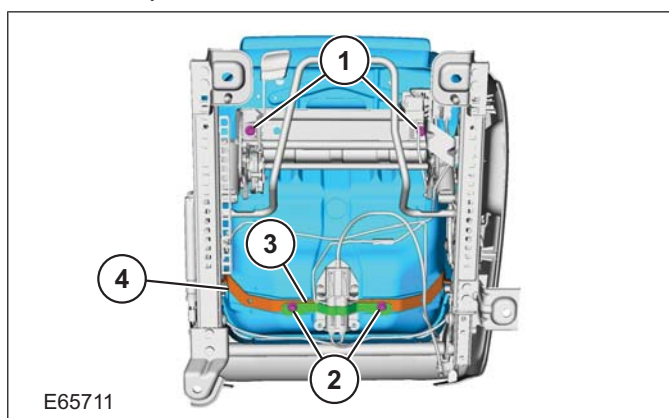
2.



3.

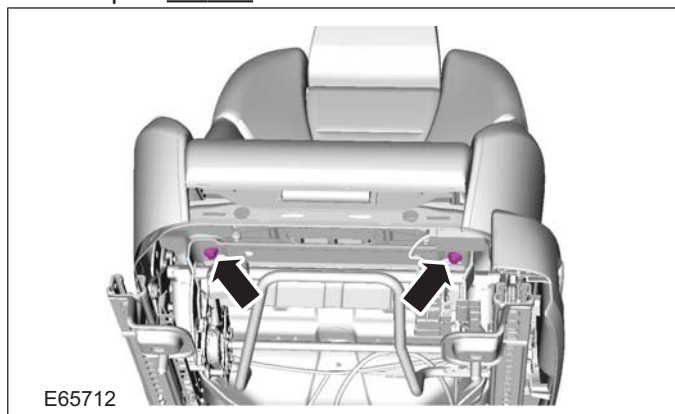


3-door

4. 1. Torque: 23 Nm

REMOVAL AND INSTALLATION

5-door

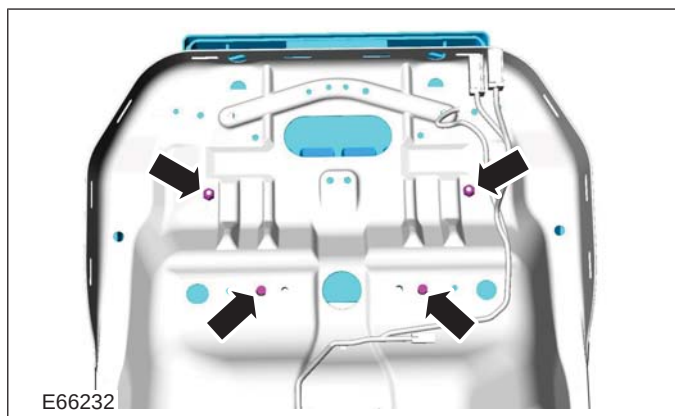
5. Torque: 23 Nm

All vehicles

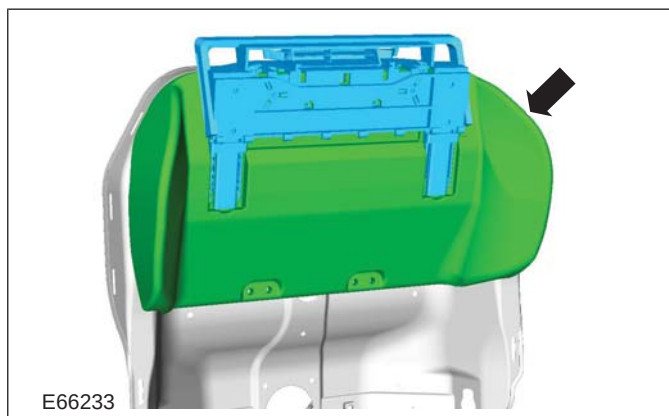
6.



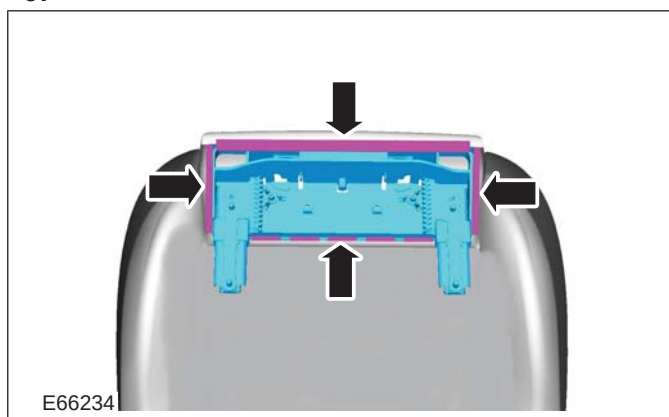
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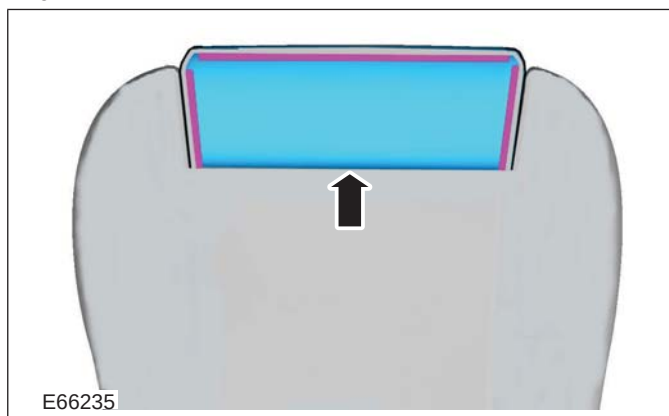
8.



9.

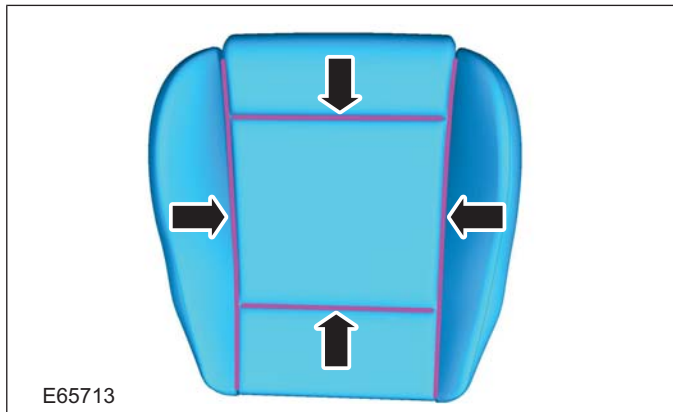


10.

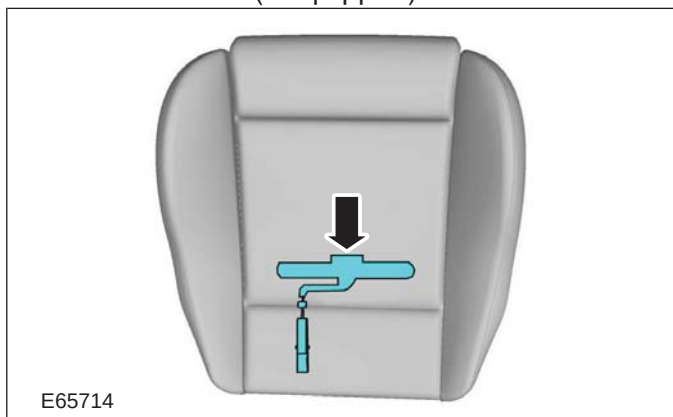


REMOVAL AND INSTALLATION

11.  **CAUTION:** Equal pressure must be applied to both surfaces of the hook and loop tape.



- 12 Remove the front passenger seat safety belt minder sensor (if equipped).

**Installation****1. WARNINGS:**

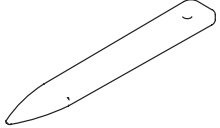
-  Make sure that the safety belt minder sensor (if equipped) is correctly located with the seat cushion cover and the seat cushion heater mat (if equipped).
-  Make sure that the seat cushion heater mat (if equipped) is correctly located with the seat cushion cover hook and loop tape.

To install, reverse the removal procedure.

REMOVAL AND INSTALLATION

Front Seat Cushion Cover — 2.5L Duratec-RS (224kW/305PS) - VI5(40 105 0)

Special Tool(s)

 E84511	501-125 Remover, Grab Handle Cover
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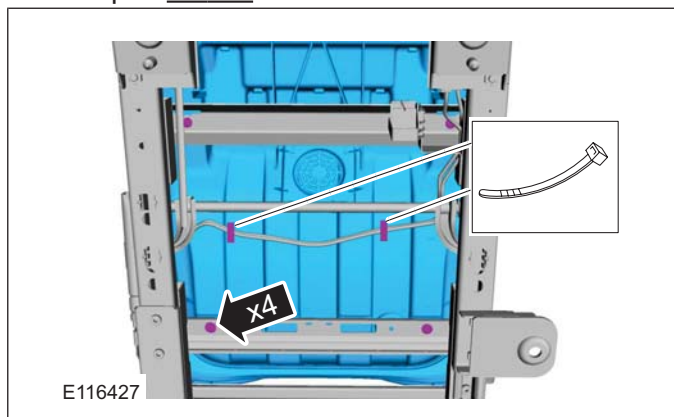
General Equipment

Cable Ties

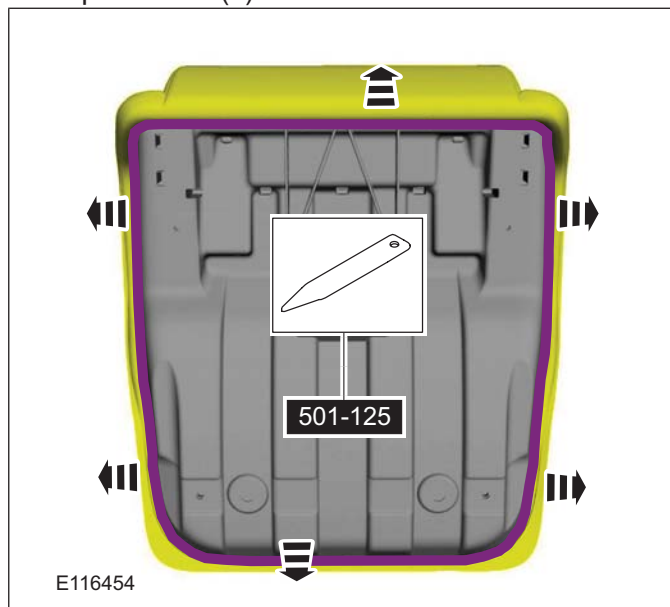
Removal

NOTE: Removal steps in this procedure may contain installation details.

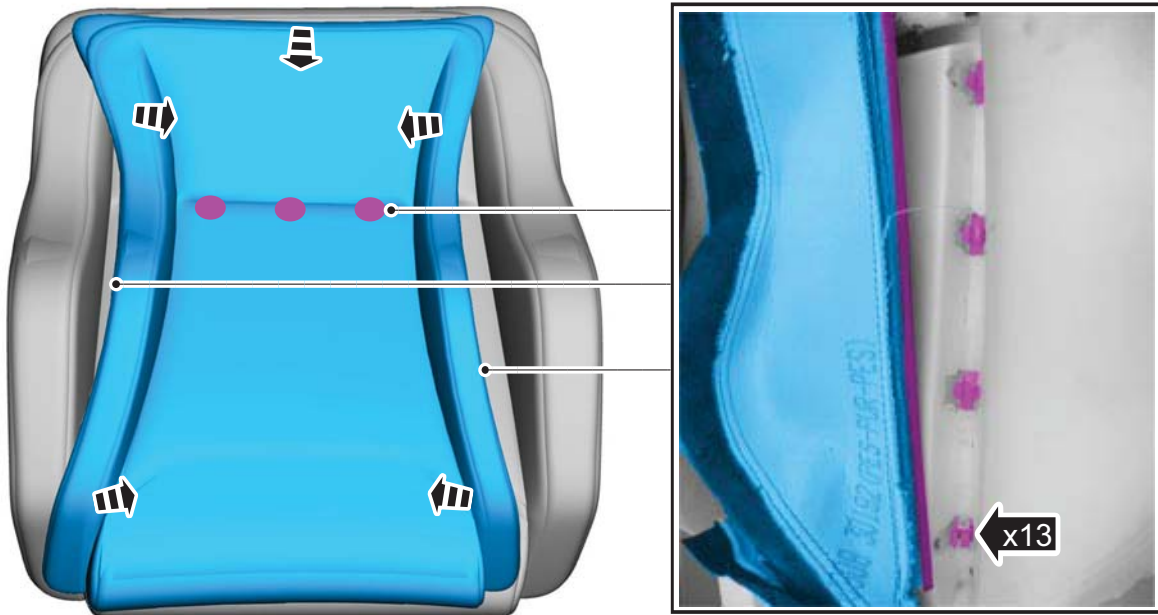
1. Refer to: Front Seat - 2.5L Duratec-RS (224kW/305PS) - VI5 (501-10 Seating, Removal and Installation).
2. General Equipment: Cable Ties
Torque: 23 Nm



3. Special Tool(s): 501-125



4.

REMOVAL AND INSTALLATION

E116429

Installation

1. To install, reverse the removal procedure.

REMOVAL AND INSTALLATION

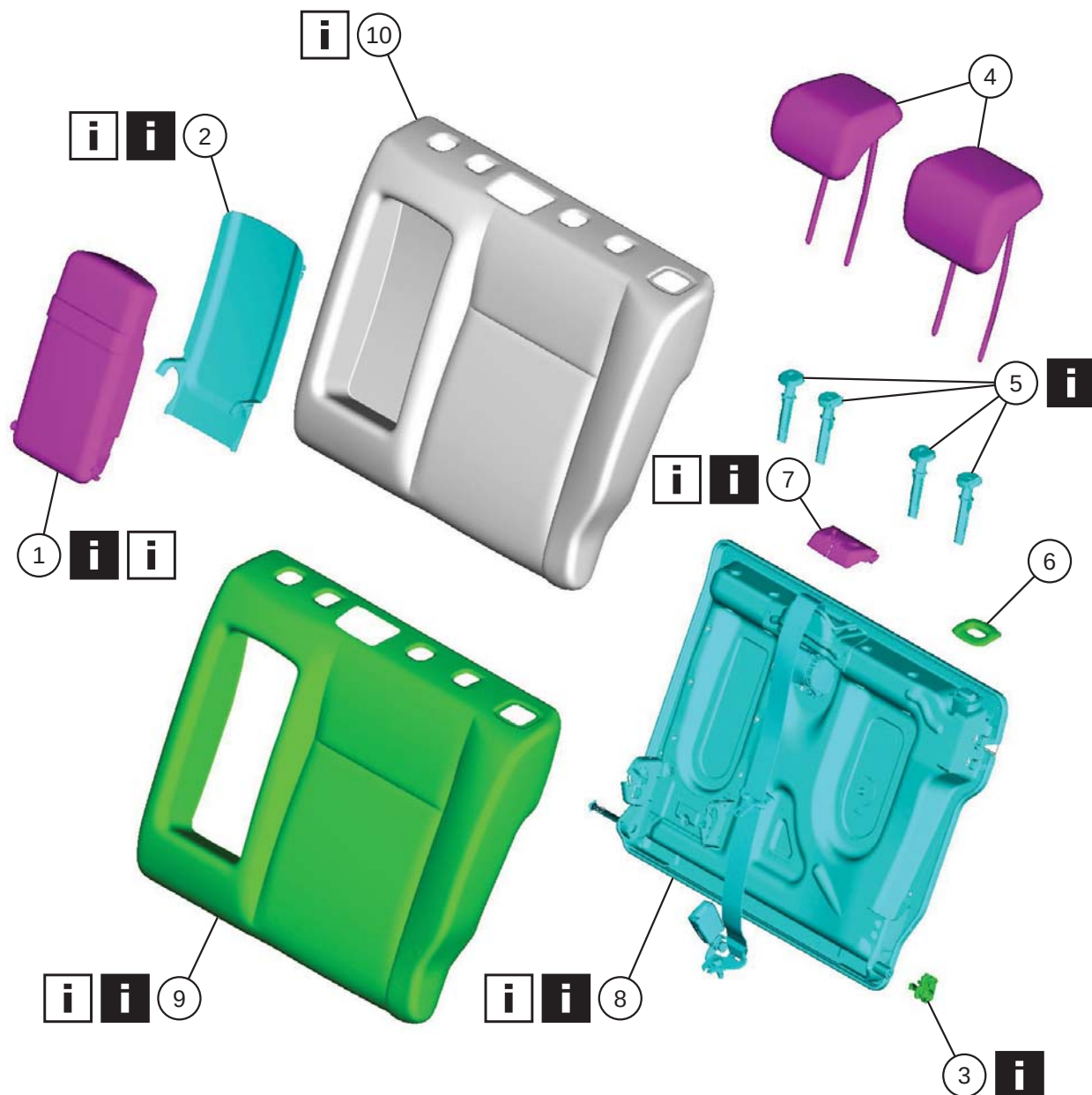
Rear Seat Backrest Cover

General Equipment

Hog ring pliers

NOTE: Left-hand rear seat backrest shown.

1. Remove the components in the order indicated in the following illustration(s) and table(s).



E50964

REMOVAL AND INSTALLATION

Item	Description
1	Armrest (if equipped) See Removal Detail See Installation Detail
2	Armrest backing plate (if equipped) See Removal Detail See Installation Detail
3	Rear seat backrest outer pivot pin bush See Removal Detail
4	Head restraints (if equipped)
5	Head restraint guide tubes (if equipped) See Removal Detail
6	Rear seat backrest release button trim panel

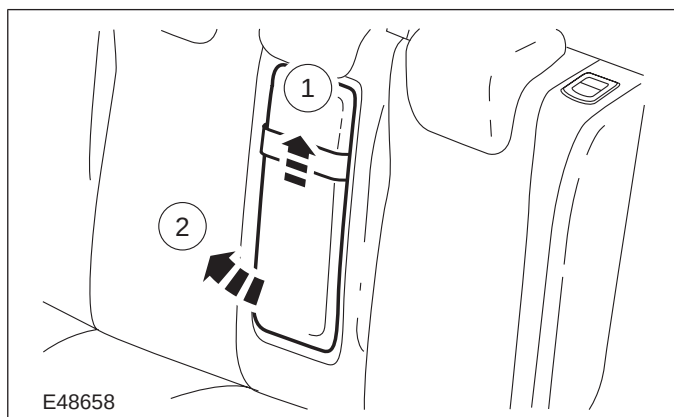
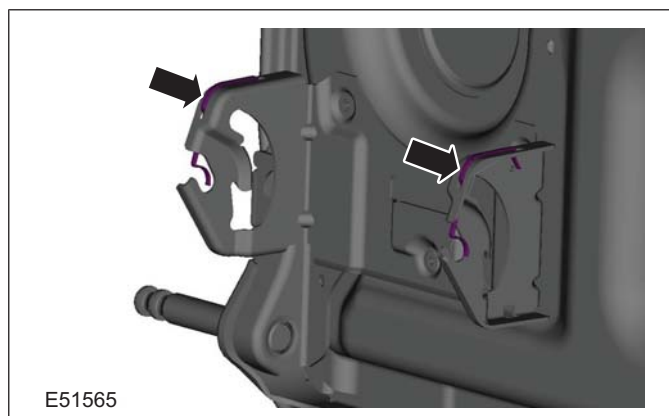
Item	Description
7	Rear center safety belt webbing trim panel See Removal Detail See Installation Detail
8	Rear seat backrest frame See Removal Detail See Installation Detail
9	Rear seat backrest pad See Removal Detail See Installation Detail
10	Rear seat backrest cover See Installation Detail

2. To install, reverse the removal procedure.

Removal Details

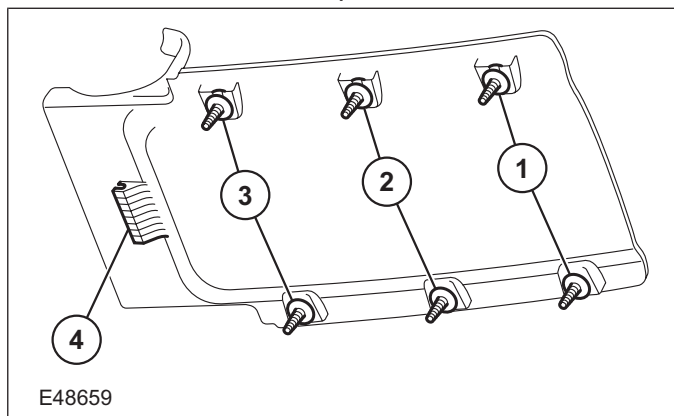
Item 1 Armrest (if equipped)**1. Remove the armrest.**

- Slide the armrest upwards.
- Slide the armrest outwards.

**2. Remove and discard the armrest pivot bush spring clips (the rear seat backrest cover and pad are shown removed for clarity).****Item 2 Armrest backing plate (if equipped)****1. Remove the armrest backing plate.**

REMOVAL AND INSTALLATION

- Detach the retaining clips from the rear seat backrest in the sequence shown.

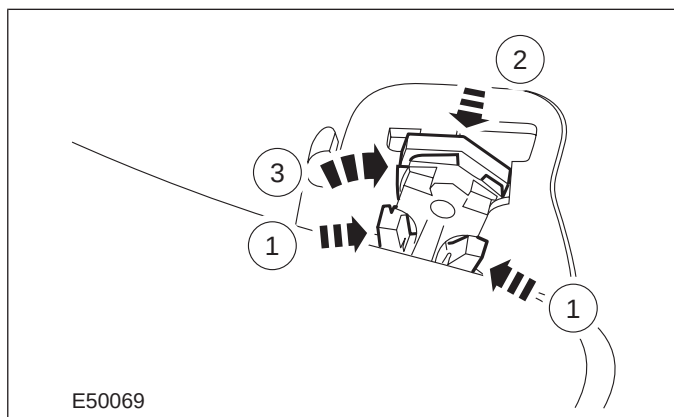


- Detach the right-hand rear seat backrest from the left-hand rear seat backrest.



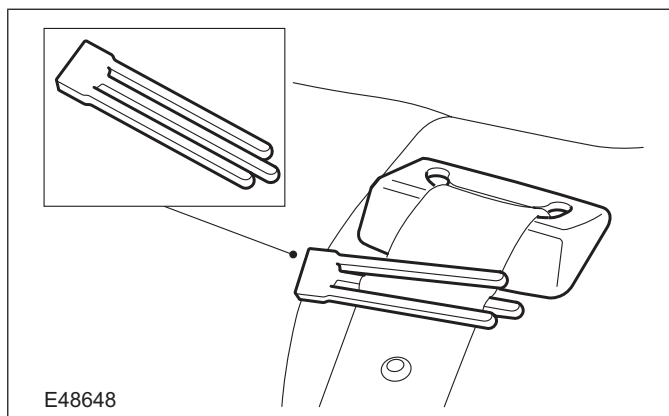
Item 3 Rear seat backrest outer pivot pin bush

- Fold the rear seat cushions forwards.
- Release the rear seat backrest upper latch on both sides.
- Fold the rear seat backrests forwards.
- Release the rear seat backrest from the outer mounting bracket on both sides.
 - Using a pair of long nose pliers, depress the clips.
 - Push the clip inwards.
 - Using a screwdriver, release the locking latch.



- CAUTION:** Make sure that a webbing retainer is installed at least 200 mm towards the rear center safety belt retractor from the webbing stop.

Install the safety belt webbing retainer.



- CAUTION:** The bolt securing the rear center safety belt lower anchor is held captive by a metal washer. The bolt and metal washer must remain on the safety belt lower anchor at all times when the safety belt is detached or removed.

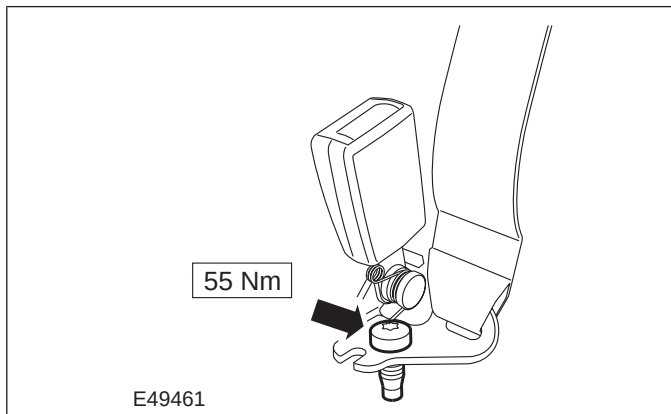
- CAUTION:** The left-hand rear seat backrest inner pivot pin has radial grooves. Take care not to damage the right-hand rear seat backrest inner pivot bush.

Remove the right-hand rear seat backrest.

- Detach the outer pivot pin from the mounting bracket.

REMOVAL AND INSTALLATION

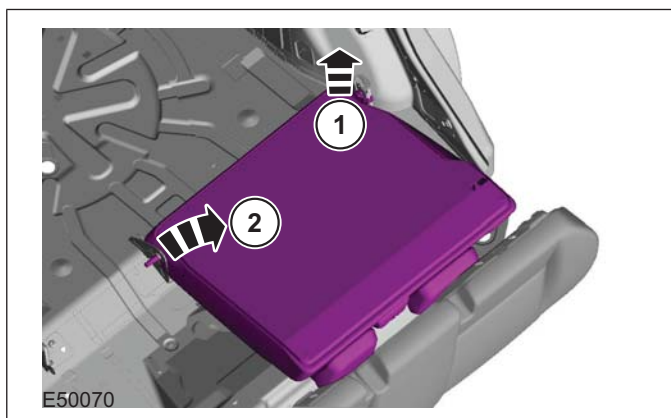
Remove the rear center safety belt lower anchor retaining bolt.



8. **⚠ CAUTION:** The left-hand rear seat backrest inner pivot pin has radial grooves. Take care not to damage the center hinge pivot bush.

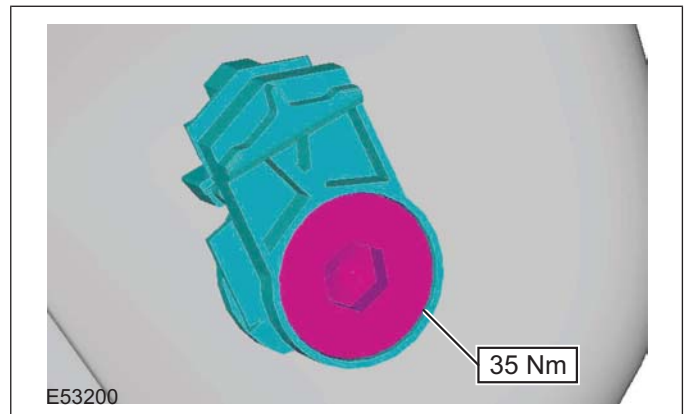
Remove the left-hand rear seat backrest.

1. Detach the outer pivot pin from the mounting bracket.
2. Slide the backrest from the center mounting bracket.



9. Remove the rear seat backrest outer pivot pin bush.

- Remove the rear seat backrest outer pivot pin bush retaining bolt.

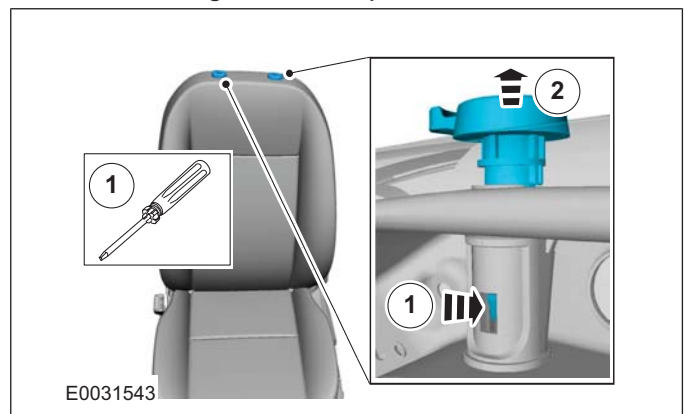


Item 5 Head restraint guide tubes (if equipped)

1. **⚠ CAUTION:** Make sure that the head restraint guide tube locking tang is fully depressed before removal.

Remove the head restraint guide tubes.

1. Using a screwdriver, depress the locking tang.
2. Pull the guide tube upwards.

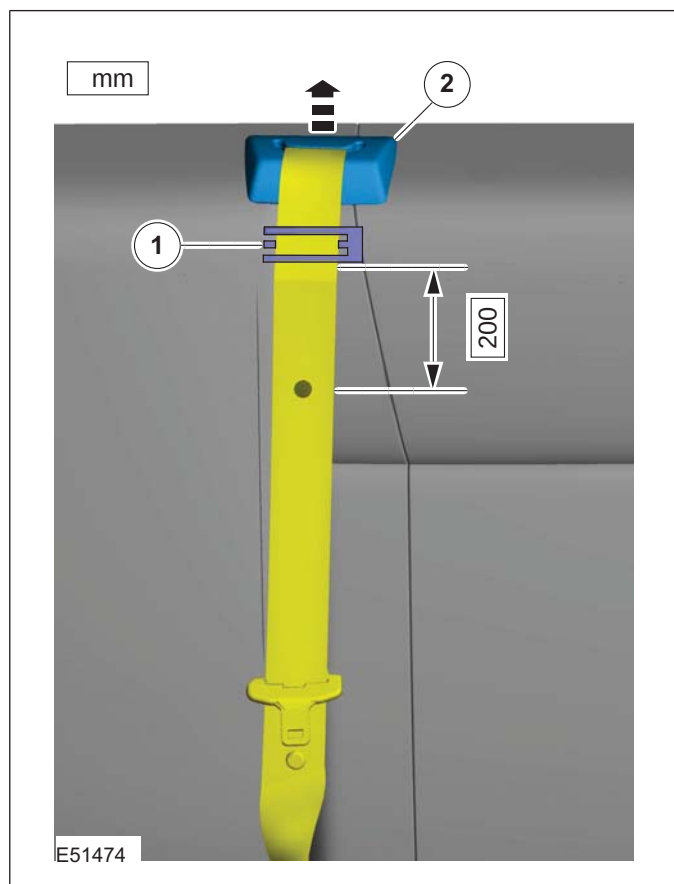


Item 7 Rear center safety belt webbing trim panel

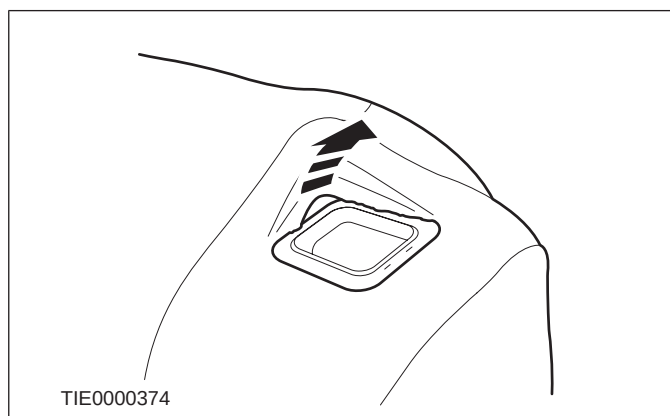
1. **⚠ CAUTION:** Make sure that a webbing retainer is installed at least 200 mm towards the rear center safety belt retractor from the webbing stop.

REMOVAL AND INSTALLATION

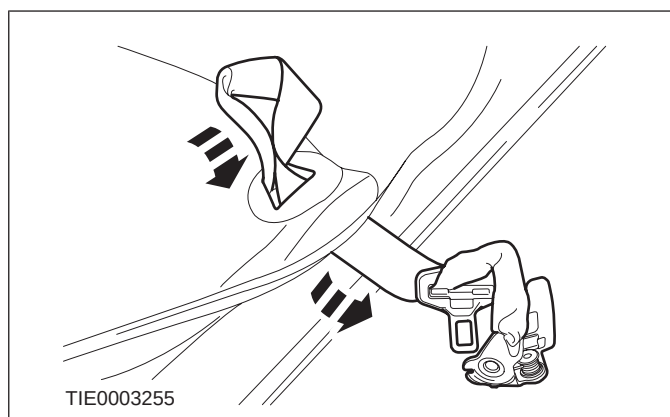
Remove the rear center safety belt webbing trim panel.



2. Detach the rear seat backrest cover from the rear seat backrest release button.

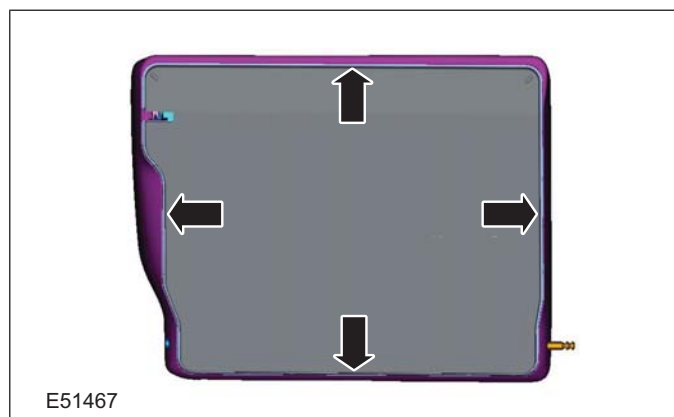


3. Feed the rear center safety belt and lower anchor through the rear seat backrest cover and pad.

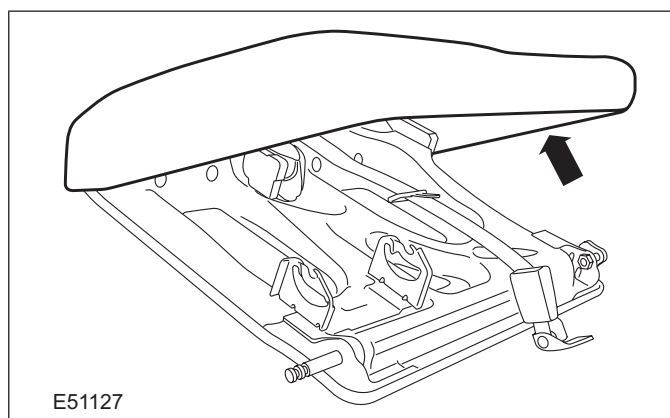


Item 8 Rear seat backrest frame

1. Detach the rear seat backrest cover from the rear seat backrest frame.



4. Remove the rear seat backrest cover and pad.



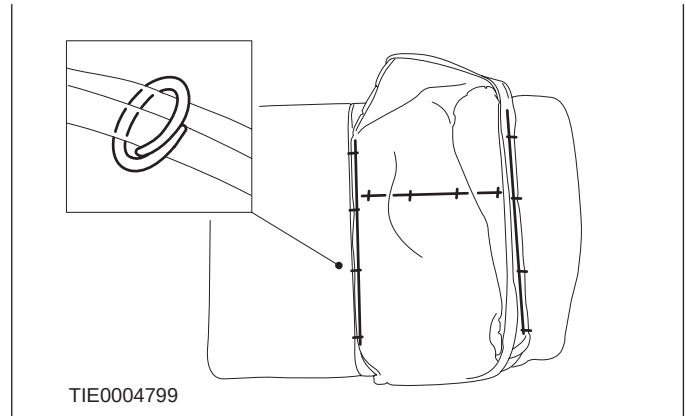
Item 9 Rear seat backrest pad

1. Remove the rear seat backrest cover.

- Cut the hog rings.

REMOVAL AND INSTALLATION

- Discard the hog rings.



Installation Details

Item 10 Rear seat backrest cover

NOTE: If a replacement rear seat backrest cover is to be installed, cut out holes for the head restraint guide tubes and rear center safety belt webbing trim panel. Use the existing rear seat backrest cover as a template.

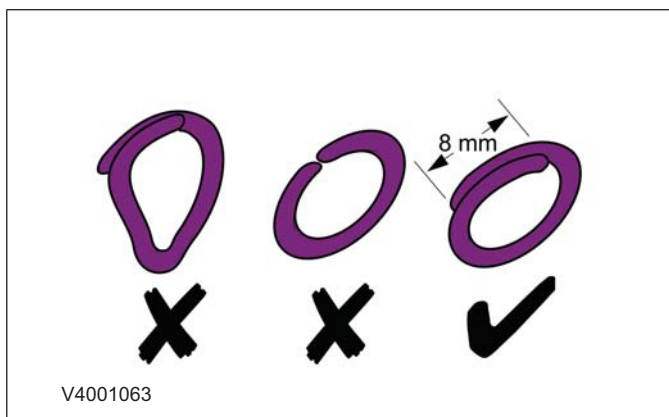
Item 9 Rear seat backrest pad

- NOTE:** If a replacement rear seat backrest cover is to be installed, cut out a hole for the rear center safety belt webbing trim panel. Use the existing rear seat backrest pad as a template.

NOTE: Use hog ring pliers to close the hog rings. Do not use any other tool. The hog rings must be closed to overlap as illustrated.

NOTE: Install new hog rings.

Using hog ring pliers, install the hog rings.



Item 8 Rear seat backrest frame

CAUTIONS:

- ⚠** Make sure that a webbing retainer is installed at least 200 mm towards the rear center safety belt retractor from the webbing stop.
- ⚠** When attaching the rear seat backrest cover and pad take care not to detach the safety belt webbing retainer.
- ⚠** After installation check for correct operation of the rear center safety belt retractor.

Item 7 Rear center safety belt webbing trim panel

CAUTIONS:

- ⚠** Make sure that a webbing retainer is installed at least 200 mm towards the rear center safety belt retractor from the webbing stop.
- ⚠** After installation check for correct operation of the rear center safety belt retractor.

1. Install the rear center safety belt webbing trim panel.

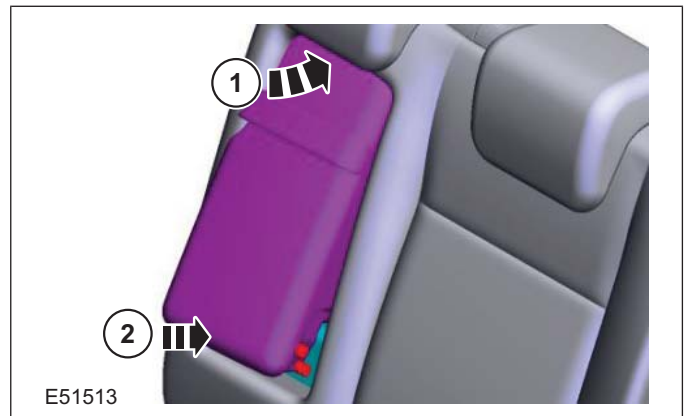
REMOVAL AND INSTALLATION



2. **NOTE:** Make sure that the armrest pivot bush spring clips locate in the armrest pivot bush grooves.

Install the armrest.

1. Place the upper end of the armrest into the upper end of the armrest aperture.
2. Locate the armrest pivot bushes into the armrest retaining bracket.



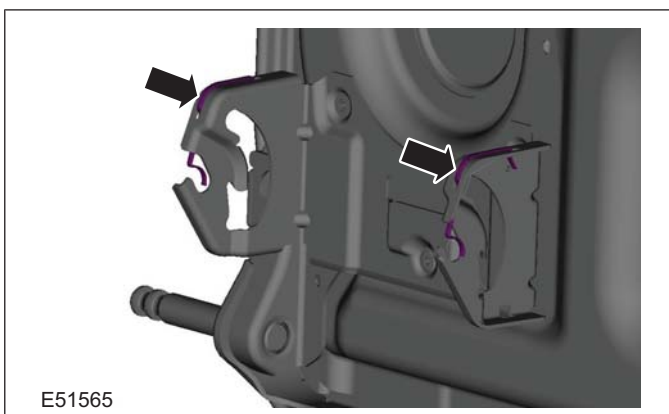
Item 2 Armrest backing plate (if equipped)

1. **CAUTION:** Install the armrest to the rear seat backrest before installing the armrest backing plate.

Item 1 Armrest (if equipped)

- WARNING:** New armrest pivot bush spring clips must be installed. Failure to follow this instruction may result in personal injury.

1. Install the armrest pivot bush spring clips (the rear seat backrest cover and pad are shown removed for clarity).



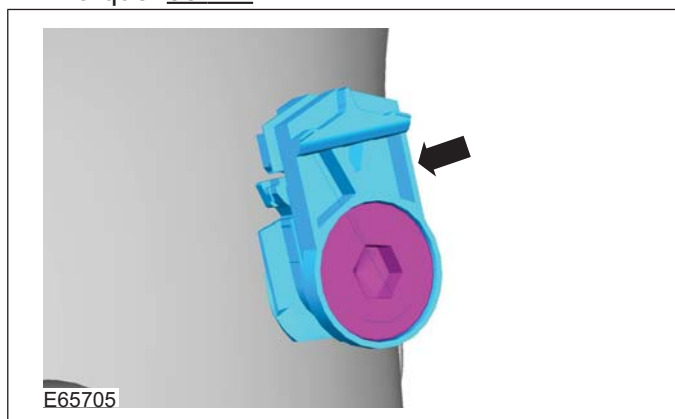
REMOVAL AND INSTALLATION

Rear Seat Backrest Cover — 2.5L Duratec-ST (166kW/226PS) - VI5

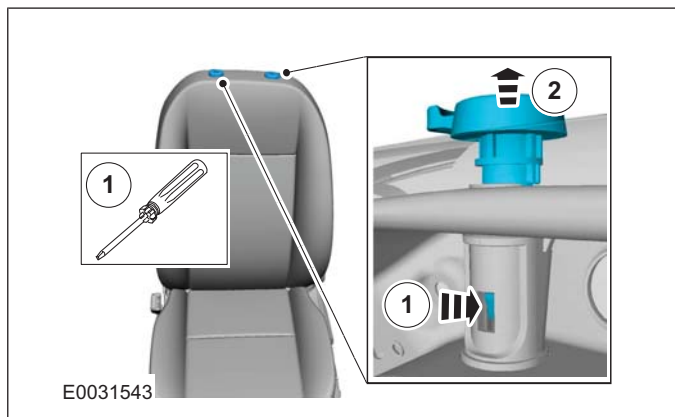
Removal

NOTE: Removal steps in this procedure may contain installation details.

All vehicles

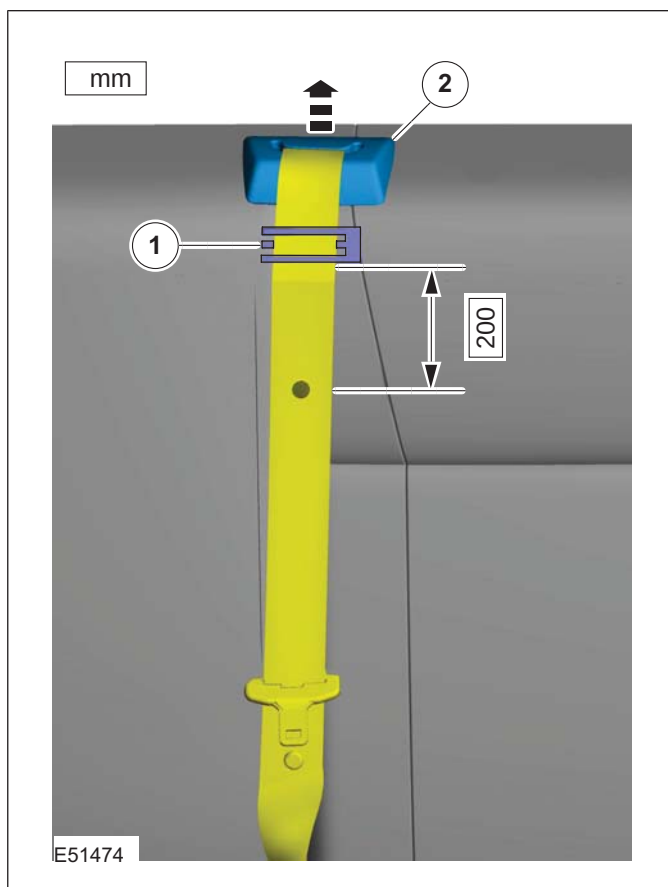
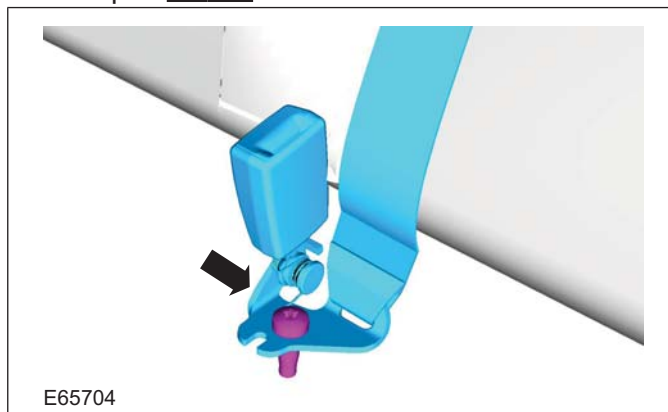
1. Torque: 35 Nm

2.



Vehicles with seat mounted safety belt retractors

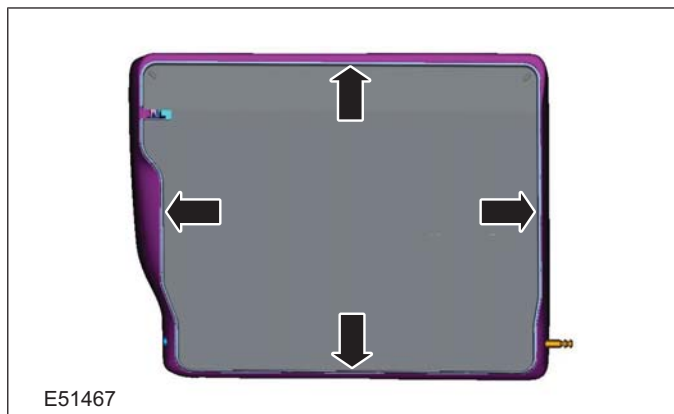
3. **NOTE:** If the safety belt webbing retracts further than the safety belt webbing stop, a new safety belt retractor must be installed.

4. Torque: 55 Nm

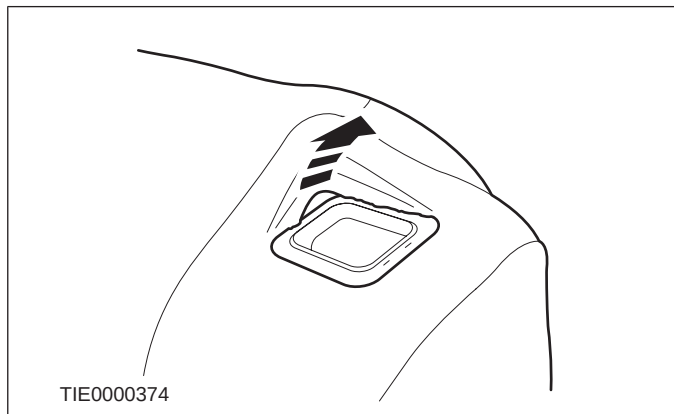
REMOVAL AND INSTALLATION

All vehicles

5.

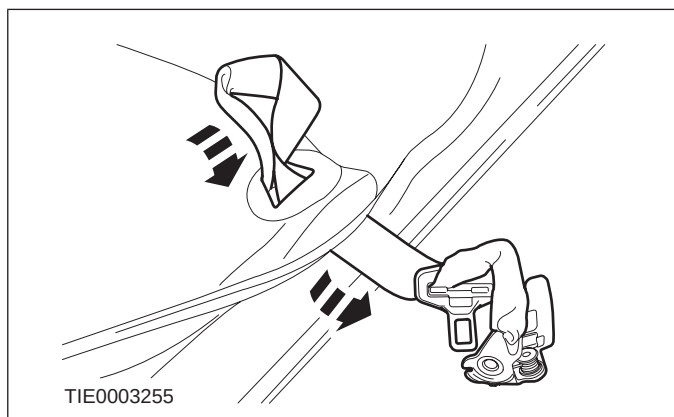


6.

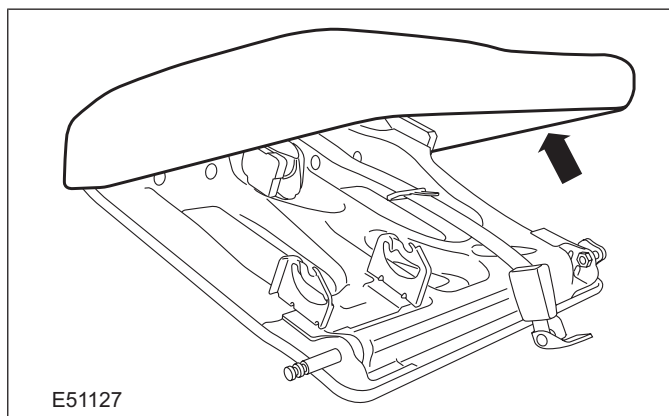


Vehicles with seat mounted safety belt retractors

7.

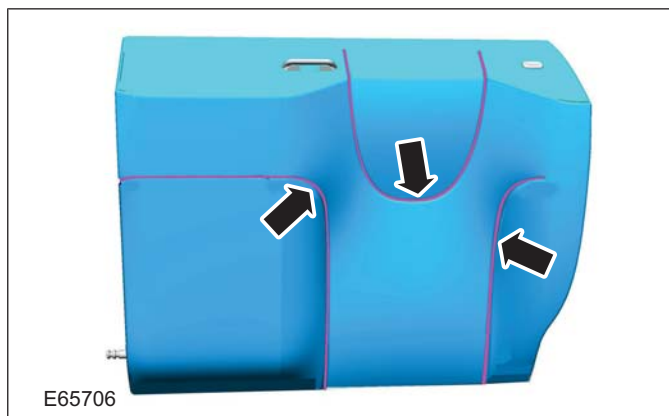


8.



All vehicles

9.  **CAUTION:** Equal pressure should be applied to both surfaces of the hook and loop tape.



Installation

1. **NOTE:** Use the original rear seat backrest cover as a template.

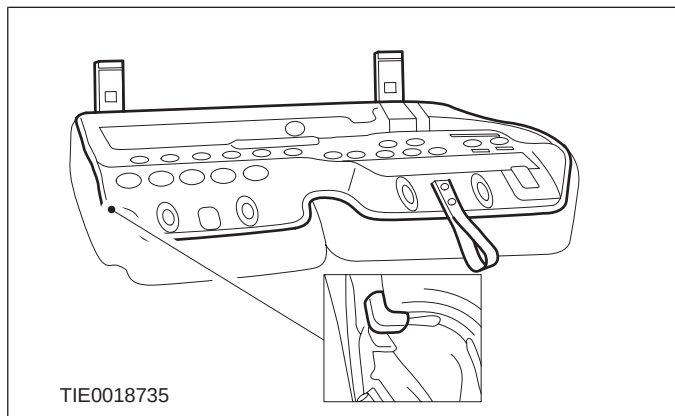
Cut out the holes for the head restraint guides and rear center safety belt webbing trim panel.

2. To install, reverse the removal procedure.

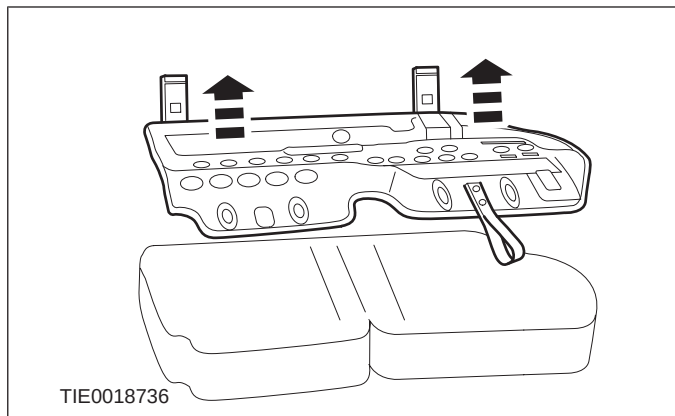
REMOVAL AND INSTALLATION**Rear Seat Cushion Cover — 2.5L Duratec-ST (166kW/226PS) - VI5****Removal**

NOTE: Removal steps in this procedure may contain installation details.

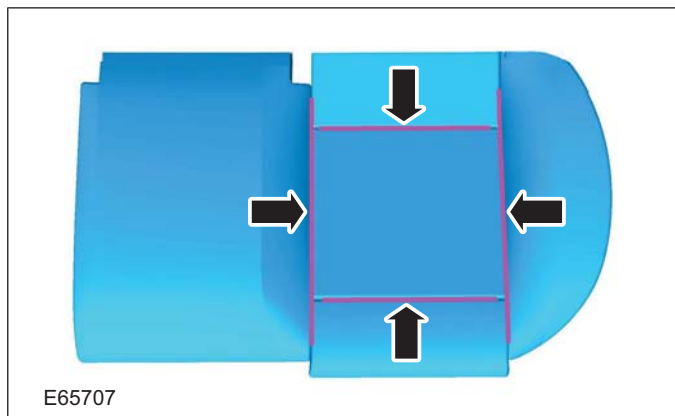
1.



2.



3.  **CAUTION:** Equal pressure should be applied to both surfaces of the hook loop tape.

**Installation**

1. To install, reverse the removal procedure.

REMOVAL AND INSTALLATION

Seat Base

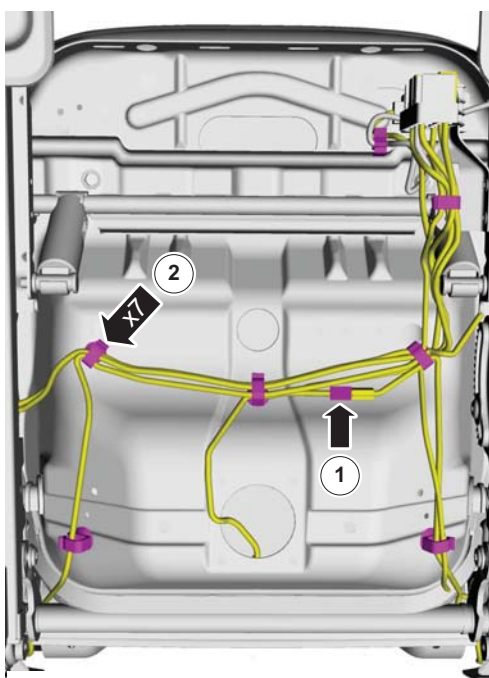
General Equipment

Blind Rivet Gun

Removal

NOTE: Removal steps in this procedure may contain installation details.

1. Refer to: **Front Seat** (501-10 Seating, Removal and Installation).
2. If equipped.
Refer to: **Compact Disc (CD) Changer** (415-01 Audio Unit, Removal and Installation).
3. 1. If equipped.

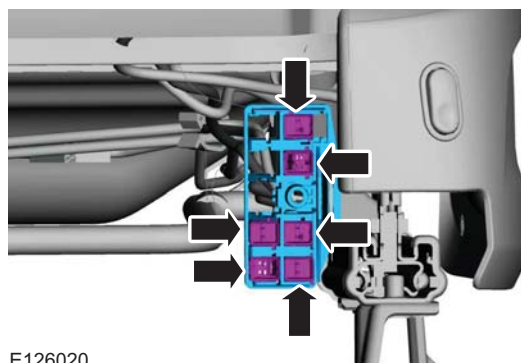


E39482

General Equipment

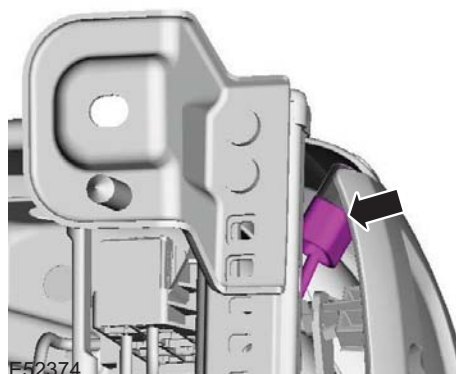
Electric Drill

4.



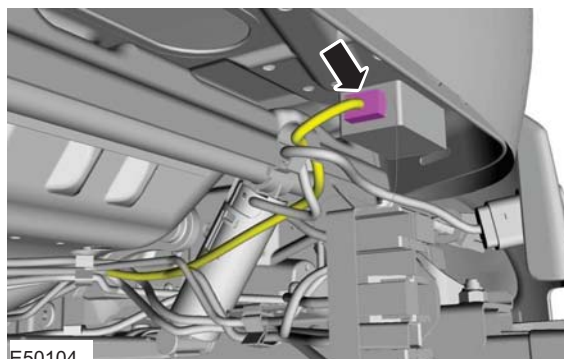
E126020

5. If equipped.



E52374

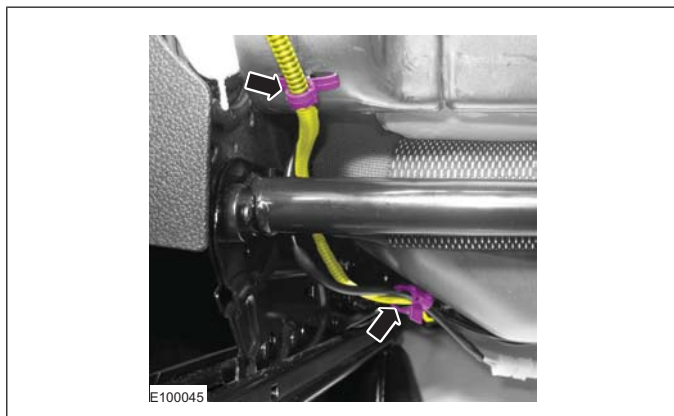
6. If equipped.



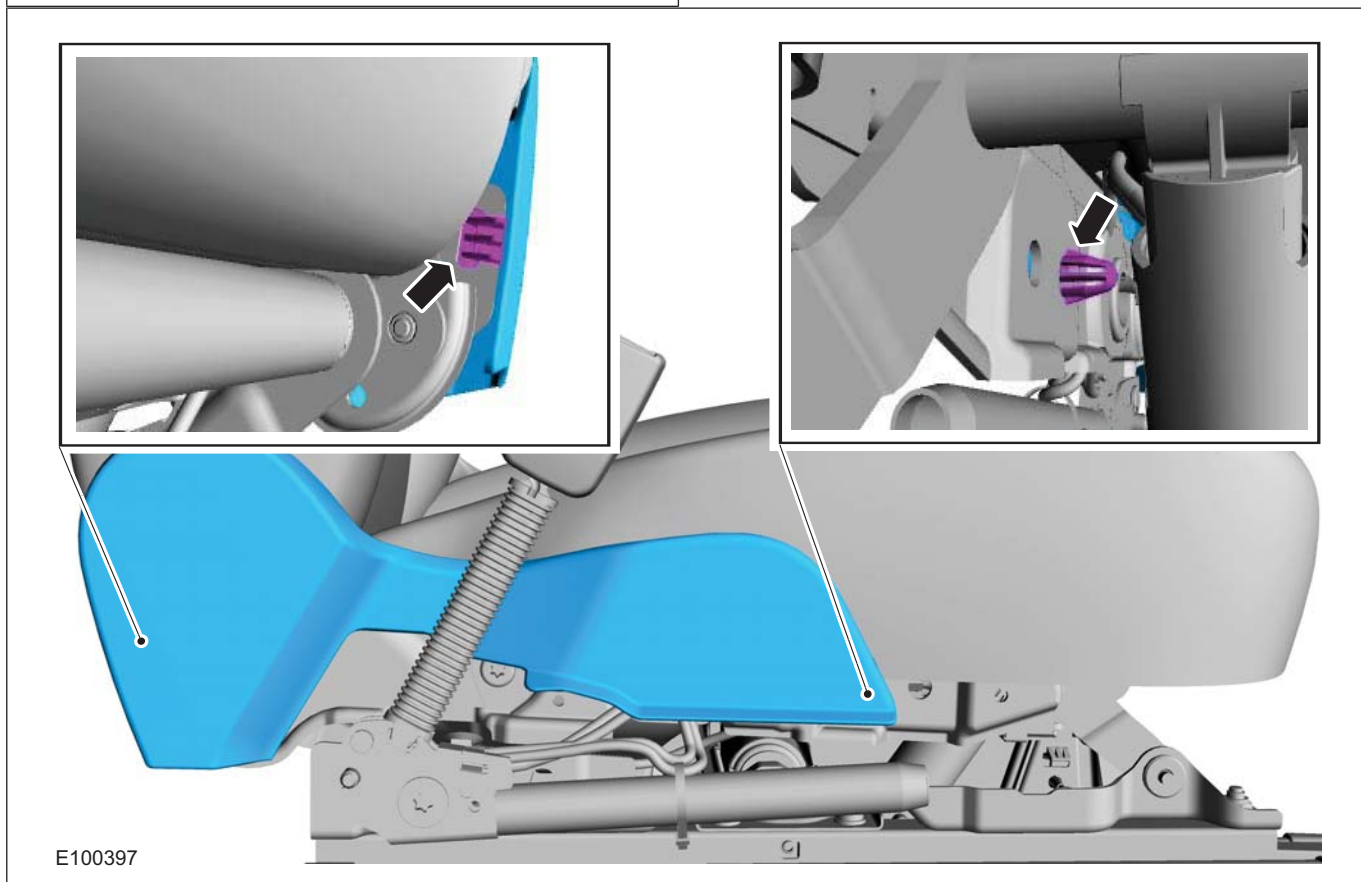
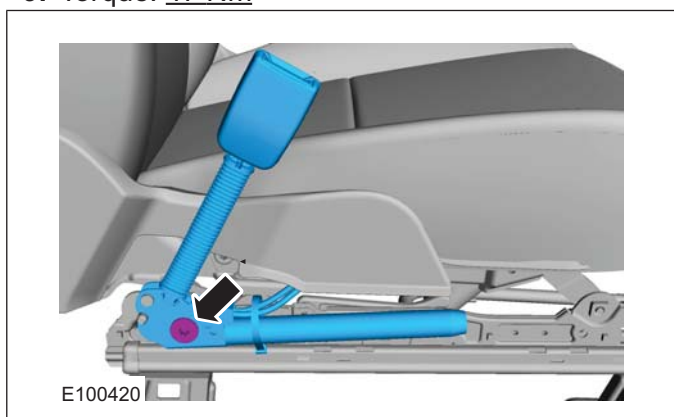
E50104

REMOVAL AND INSTALLATION

7.

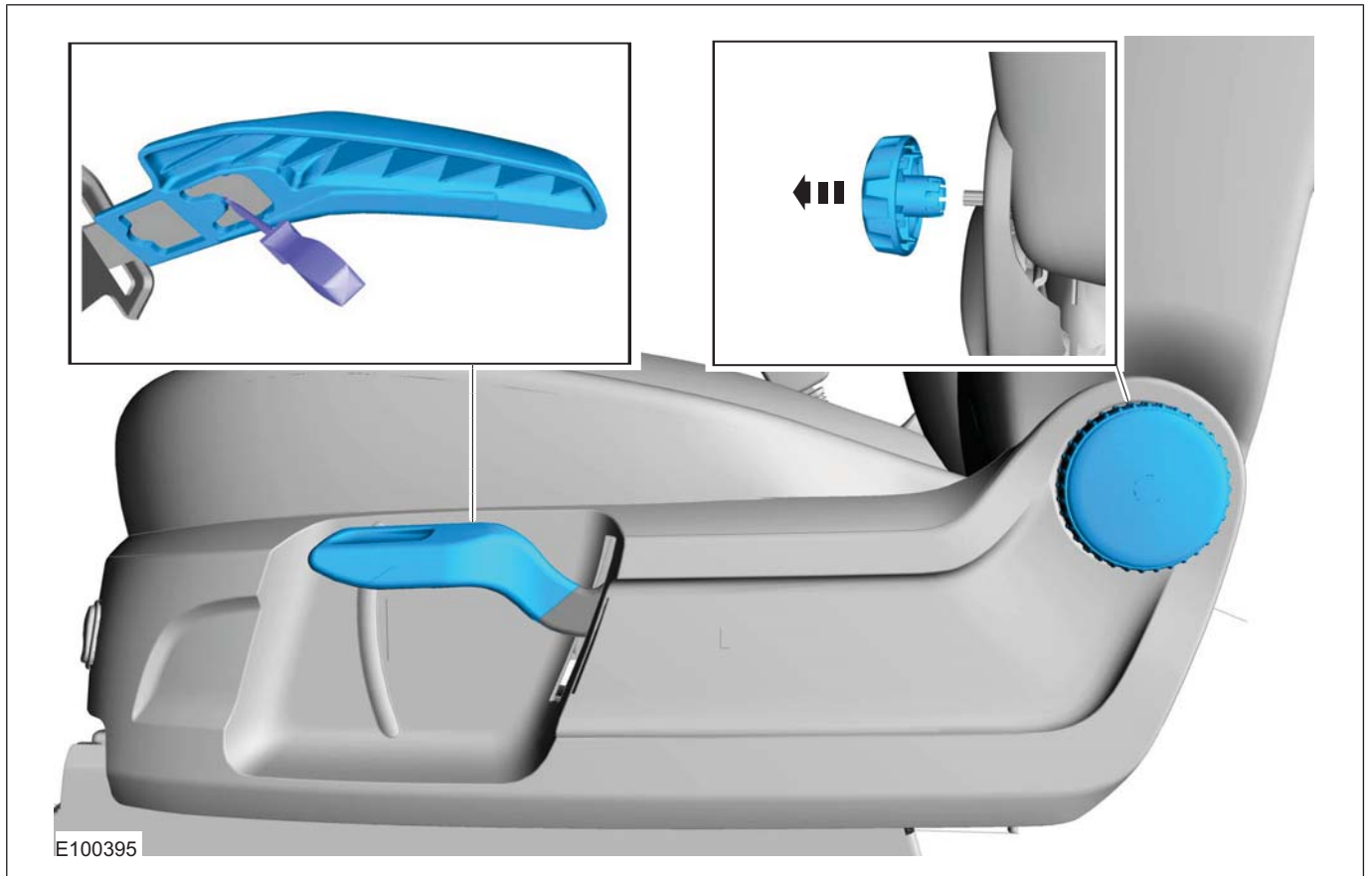


8.

9. Torque: 47 Nm

10.

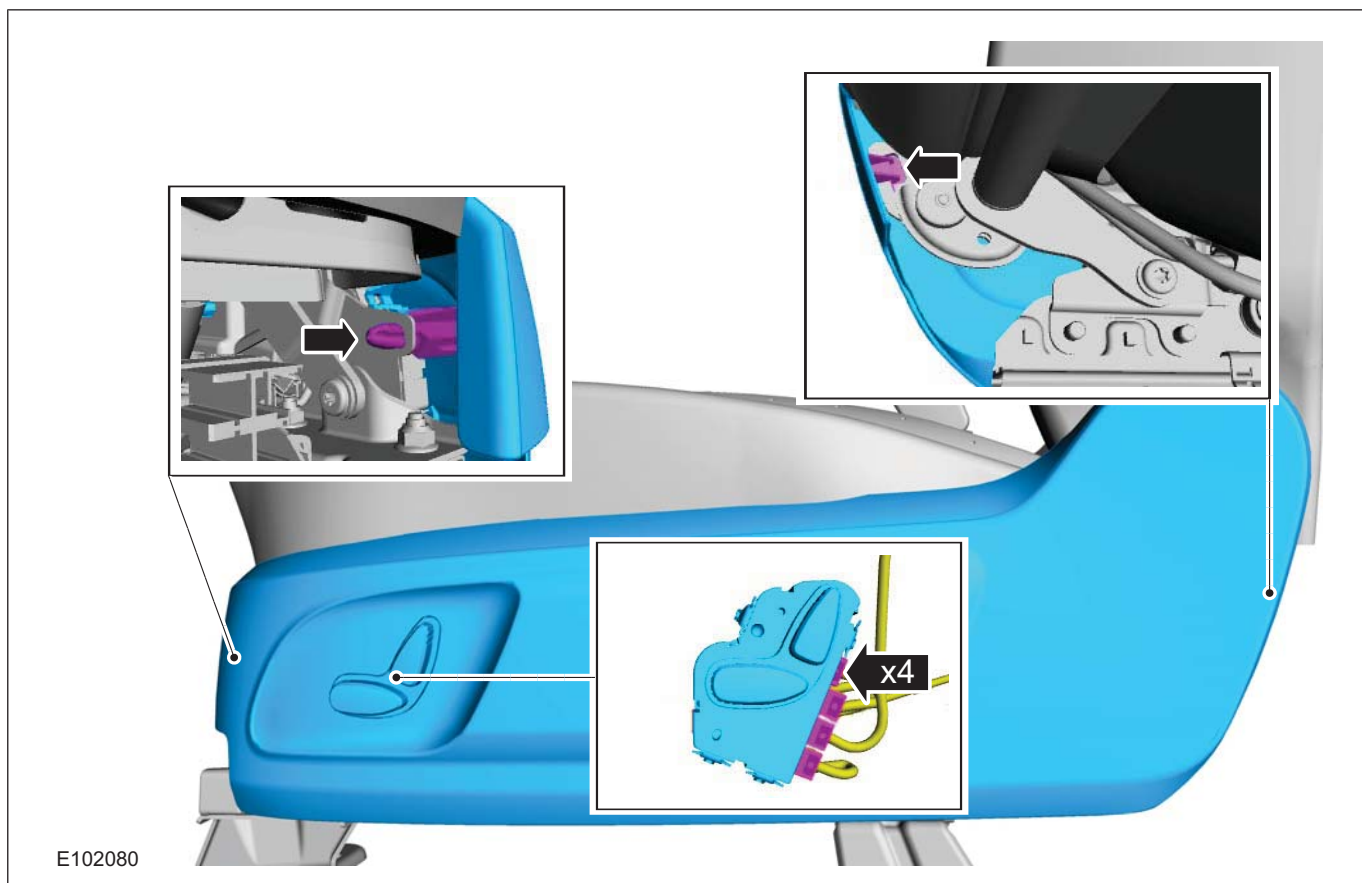
REMOVAL AND INSTALLATION



Vehicles with power seats

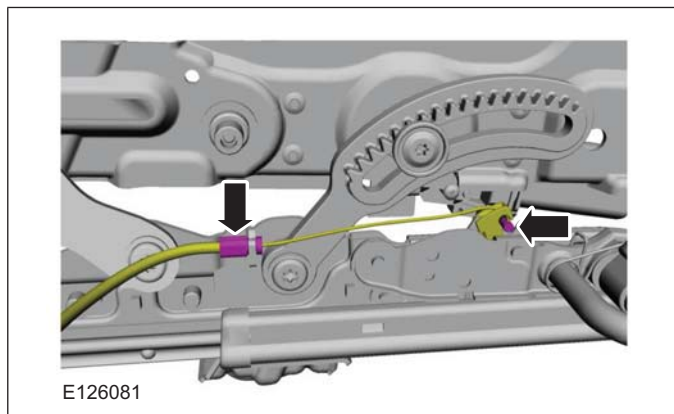
11.

REMOVAL AND INSTALLATION

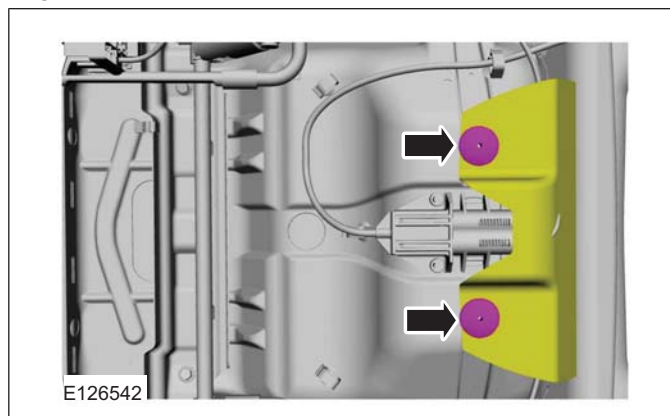


3-door

12. On both sides.

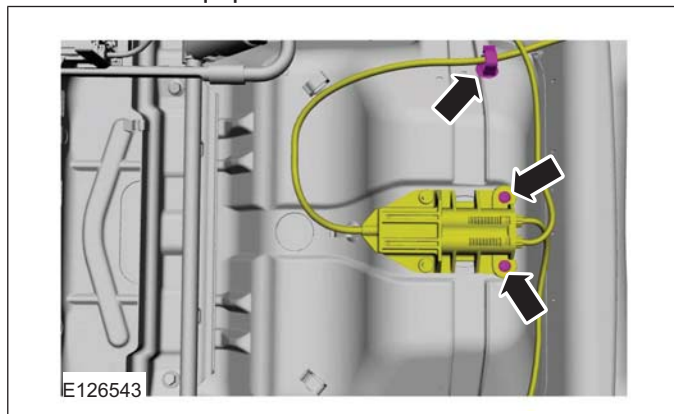


13.



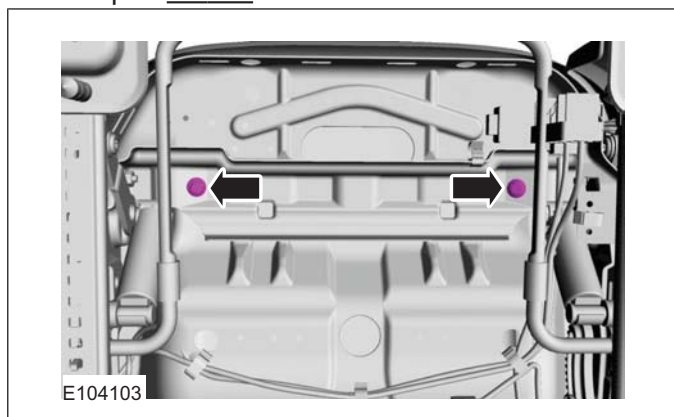
REMOVAL AND INSTALLATION

14. General Equipment: Electric Drill
General Equipment: Blind Rivet Gun

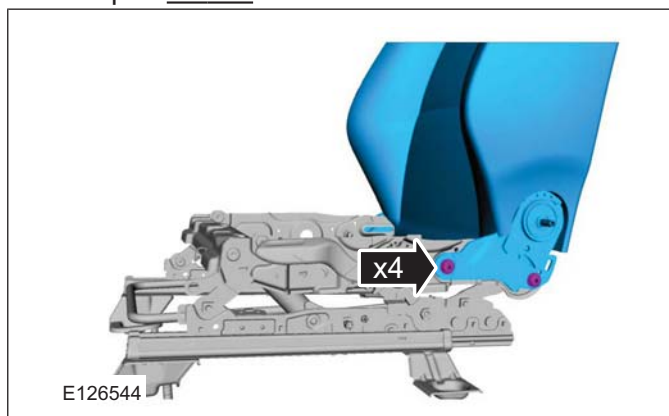


All vehicles

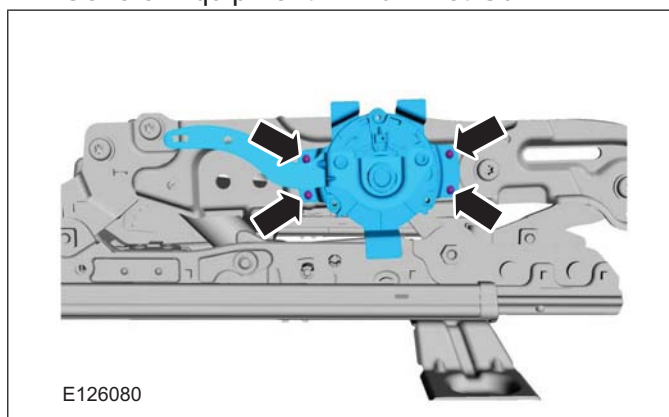
15. Torque: 23 Nm



17. Torque: 27 Nm

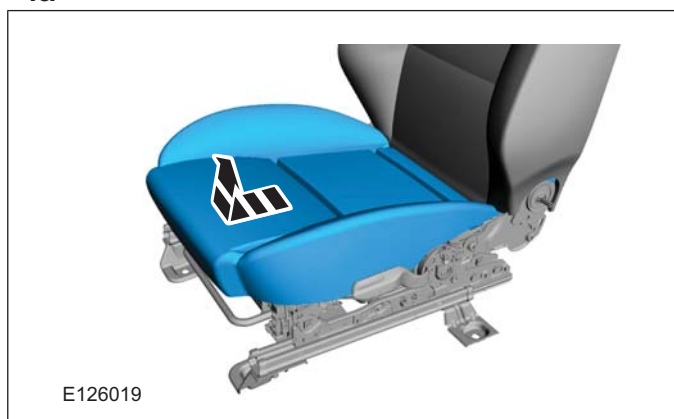


18. General Equipment: Electric Drill
General Equipment: Blind Rivet Gun

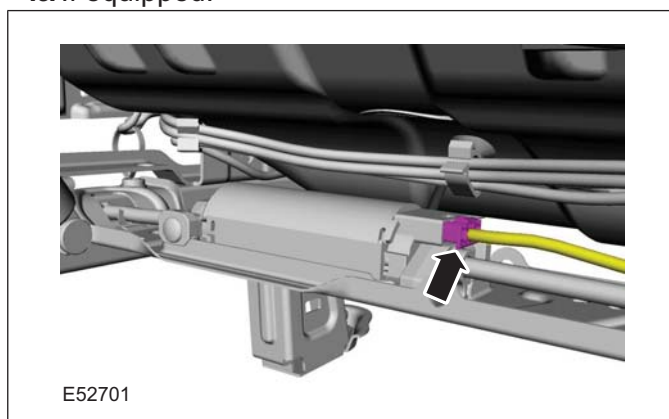


Vehicles with power seats

- 16.

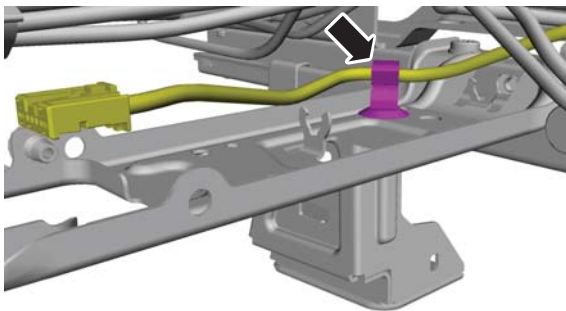


19. If equipped.



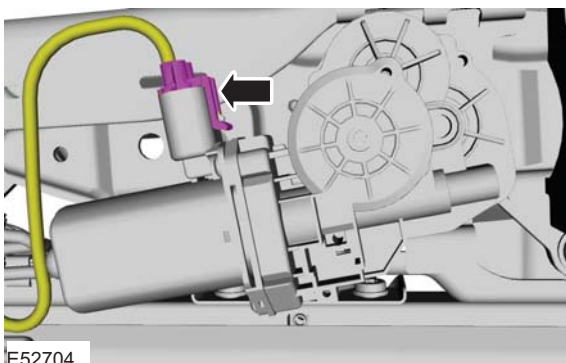
REMOVAL AND INSTALLATION

20. If equipped.



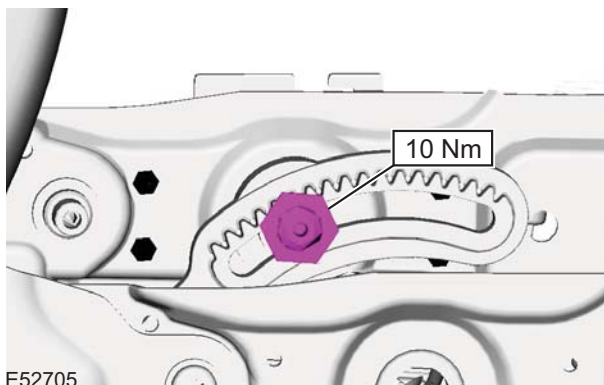
E117969

21.



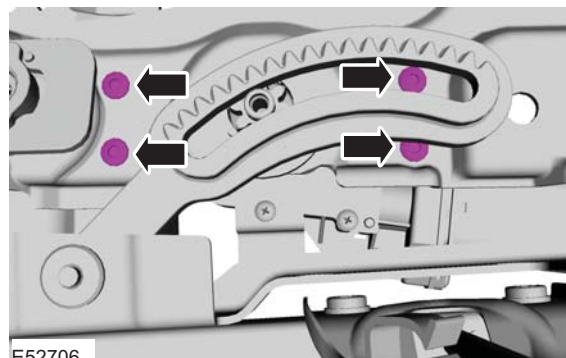
E52704

22. Torque: 10 Nm



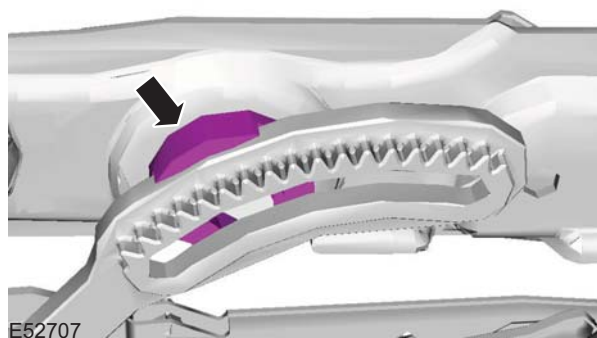
E52705

23. General Equipment: Electric Drill
General Equipment: Blind Rivet Gun



E52706

24.



E52707

Installation

1. To install, reverse the removal procedure.

DISASSEMBLY AND ASSEMBLY

Rear Seat Cushion

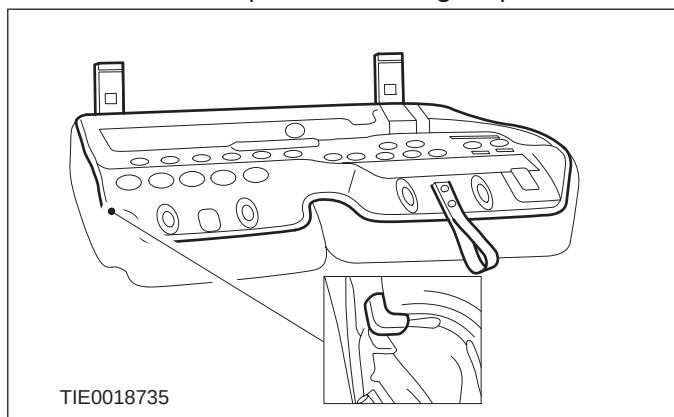
Disassembly

NOTE: The rear seat double cushion is shown in the procedure. The single cushion is similar.

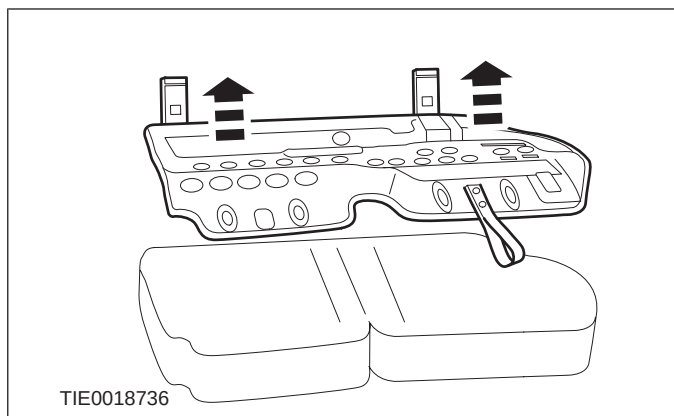
1. NOTE: Retain the corner protector.

Detach the seat cushion cover from the seat base.

- Detach the plastic retaining strip.



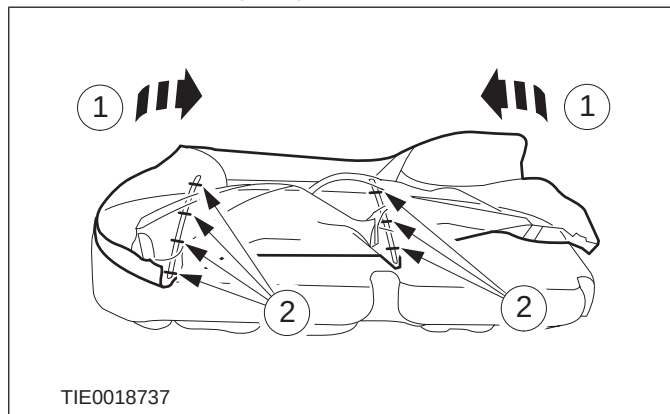
2. Remove the seat base.



3. Detach the cushion cover from each side of the cushion.

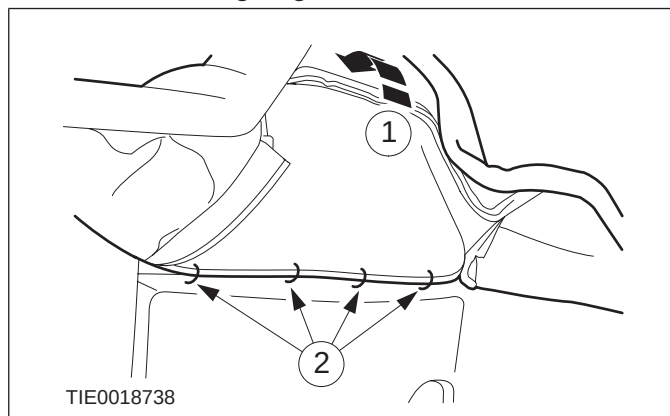
1. Roll the cushion cover towards the center to access the pleating hog rings.

2. Cut the hog rings.



4. Remove the cushion cover.

1. Roll the cushion cover back to access the pleating hog rings.
2. Cut the hog rings.

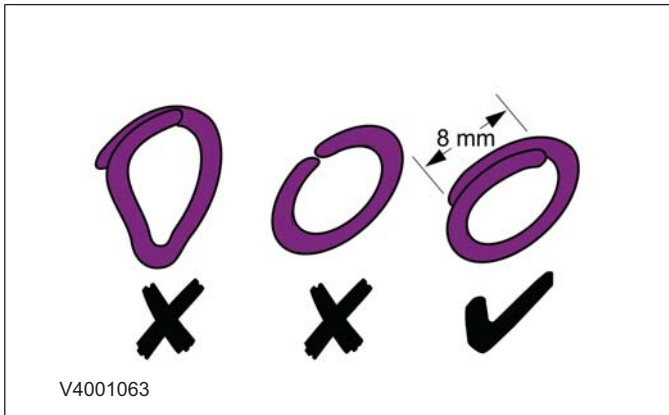


Assembly

- 1. NOTE: Use hog ring pliers to close the hog rings. Do not use any other tool. The hog rings must be closed to overlap 8 mm as illustrated.**

DISASSEMBLY AND ASSEMBLY

To assemble, reverse the disassembly procedure.



DISASSEMBLY AND ASSEMBLY

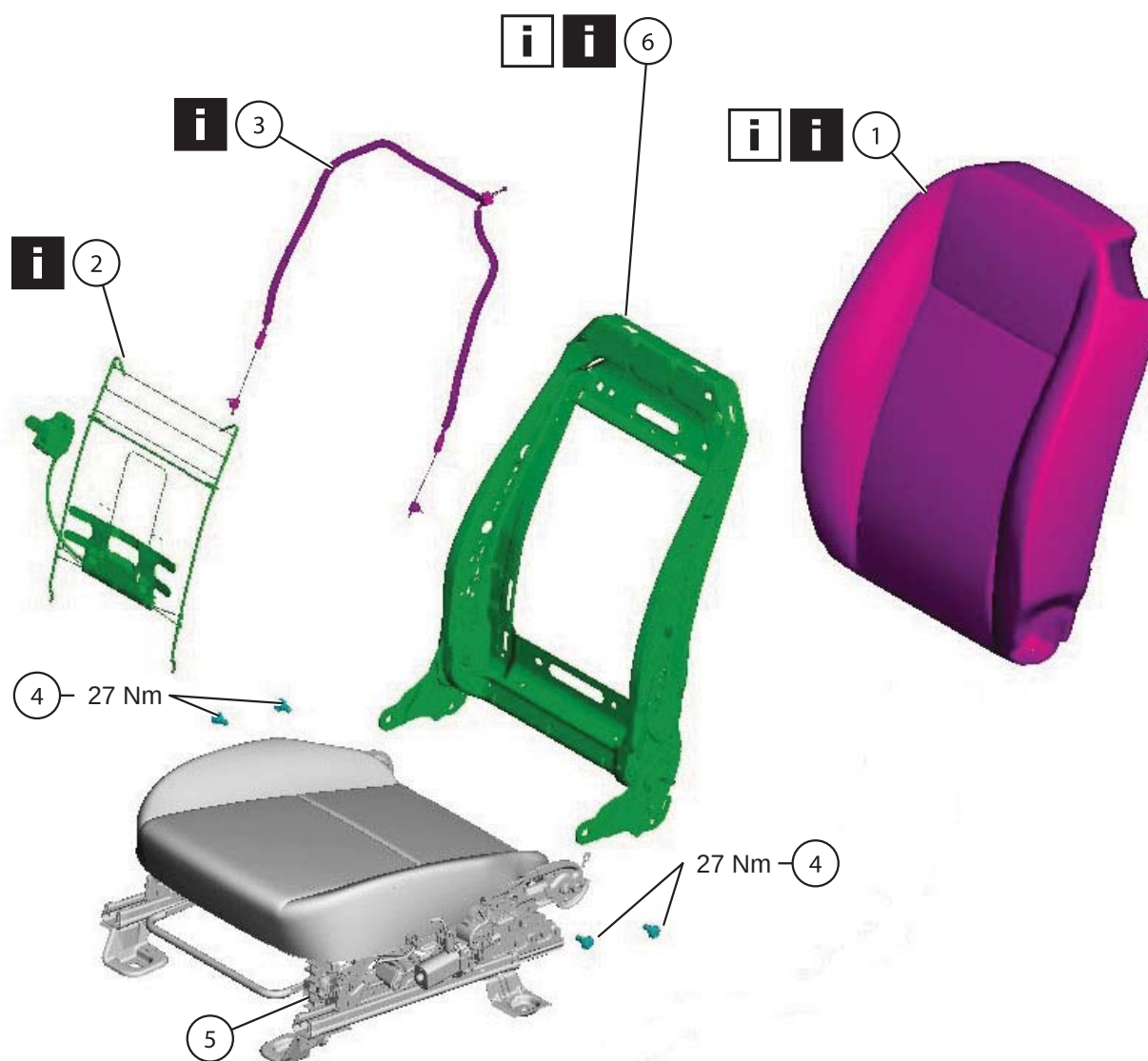
Front Seat Backrest — 3-Door

⚠ WARNING: Note the position of the wiring harnesses, to aid installation. An incorrectly routed wiring harness could become damaged when the front seat is moved. Failure to follow this instruction may result in personal injury.

1. Remove the side air bag module.

For additional information, **refer to: Side Air Bag Module** (501-20 Supplemental Restraint System, Removal and Installation).

2. Disassemble the components in the order indicated in the following illustration(s) and table(s).



E50114

DISASSEMBLY AND ASSEMBLY

Item	Description
1	Front seat backrest pad See Disassembly Detail See Assembly Detail
2	Front seat backrest lumbar support (if equipped) See Disassembly Detail
3	Front seat backrest release lever cable assembly See Disassembly Detail

Item	Description
4	Front seat backrest frame retaining bolts
5	Front seat frame
6	Front seat backrest frame See Disassembly Detail See Assembly Detail

3. To assemble, reverse the disassembly procedure.

Disassembly Details

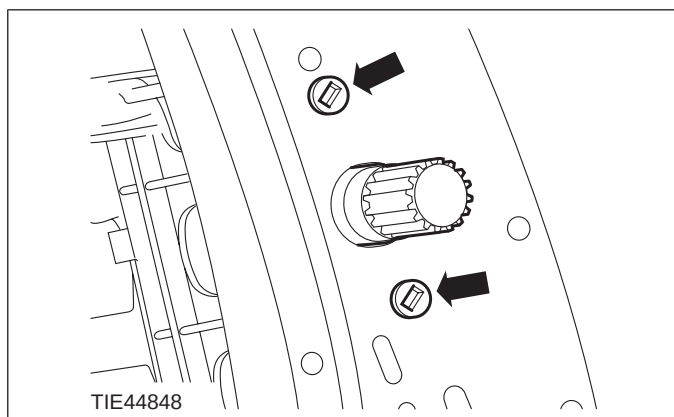
Item 1 Front seat backrest pad

NOTE: Note the position of the front seat backrest anti-squeak mat to aid assembly.

Item 2 Front seat backrest lumbar support (if equipped)

1. Detach the front seat backrest lumbar support adjuster from the front seat backrest frame.

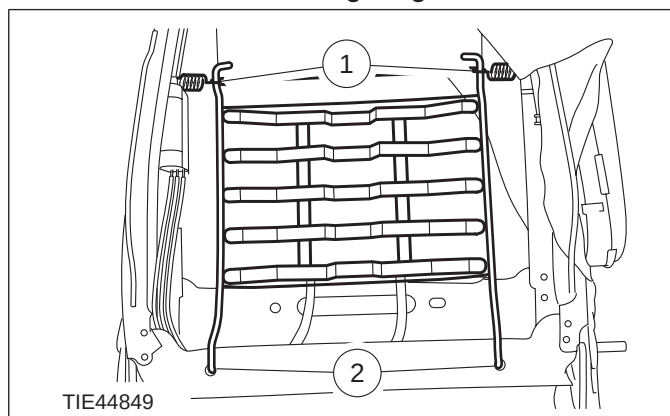
- Remove the screws.



2. Remove the front seat backrest lumbar support.

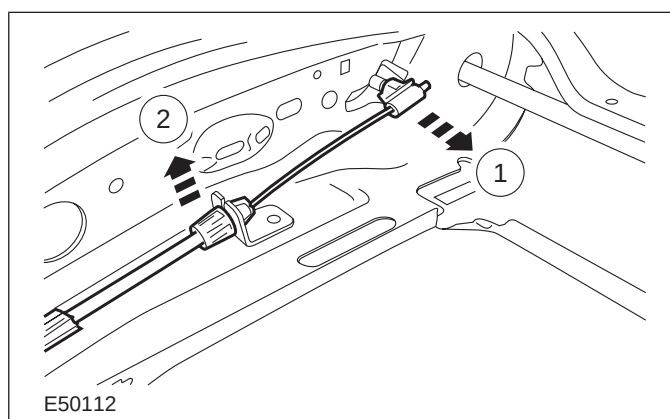
- Detach the retaining springs.

2. Detach the retaining tangs.

**Item 3 Front seat backrest release lever cable assembly**

1. Detach the front seat backrest release lever cables from the lower end of the front seat backrest on both sides.

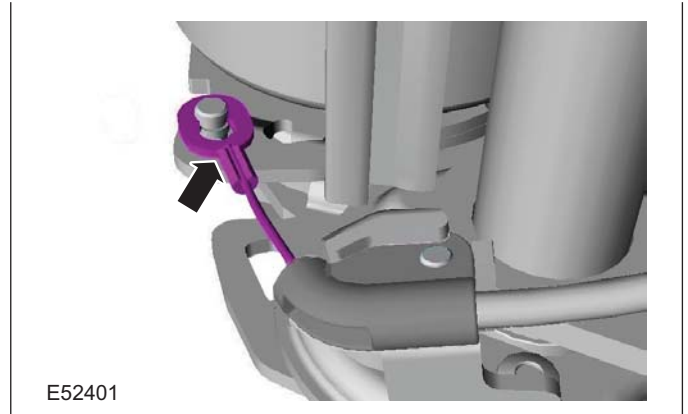
- Detach the inner cable from the release catch.
- Detach the outer cable from the front seat backrest frame.



DISASSEMBLY AND ASSEMBLY

Item 6 Front seat backrest frame

1. Detach the front seat track release cable from the lower end of the front seat backrest frame.



Assembly Details

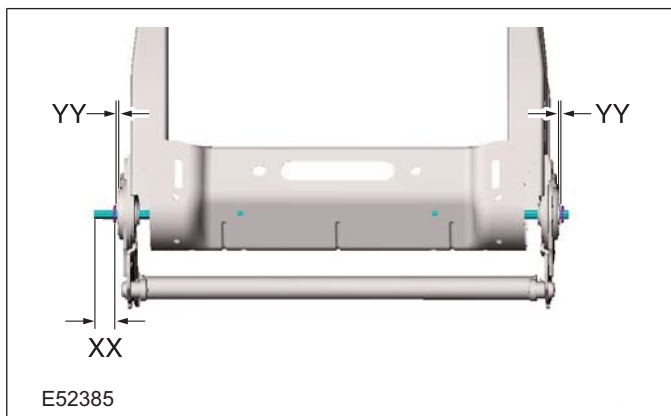
Item 6 Front seat backrest frame

- CAUTION:** After installation check for correct operation of the front seat track release cable.

1. **NOTE:** If installing a new front seat backrest frame that is equipped with a front seat backrest recliner handwheel, the front seat backrest recliner handwheel drive shaft is to be aligned.

Align the front seat backrest recliner handwheel drive shaft.

- Front seat backrest recliner handwheel drive shaft end protusion at the outer side of the backrest frame $XX = 25$ mm.
- Clearance between the front seat backrest frame and the front seat backrest recliner handwheel drive shaft retaining clips $YY = 2$ mm.



Item 1 Front seat backrest pad

- WARNING:** Side air bag deployment may be impaired if the front seat backrest pad and anti-squeak mat are not correctly positioned around the side air bag module.

Failure to follow this instruction may result in personal injury.

DISASSEMBLY AND ASSEMBLY

Front Seat Backrest — 4-Door/5-Door/Wagon

⚠ WARNING: Note the position of the wiring harnesses, to aid installation. An incorrectly routed wiring harness could become damaged when the front seat is moved. Failure to follow this instruction may result in personal injury.

1. Remove the side air bag module.

For additional information, refer to: **Side Air Bag Module** (501-20 Supplemental Restraint System, Removal and Installation).

2. Disassemble the components in the order indicated in the following illustration(s) and table(s).



DISASSEMBLY AND ASSEMBLY

Item	Description
1	Front seat backrest pad See Disassembly Detail See Assembly Detail
2	Front seat backrest lumbar support (if equipped) See Disassembly Detail
3	Front seat backrest recliner motor (if equipped) See Disassembly Detail See Assembly Detail

Item	Description
4	Front seat backrest frame retaining bolts
5	Front seat frame
6	Front seat backrest frame See Assembly Detail

3. To assemble, reverse the disassembly procedure.

Disassembly Details

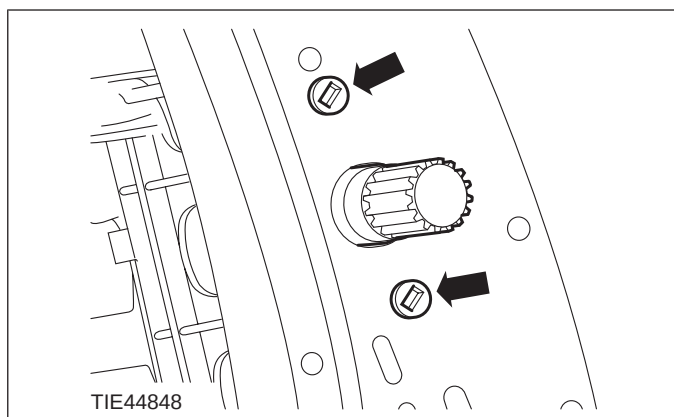
Item 1 Front seat backrest pad

NOTE: Note the position of the front seat backrest anti-squeak mat to aid assembly.

Item 2 Front seat backrest lumbar support (if equipped)

1. Detach the front seat lumbar support adjuster from the front seat backrest frame.

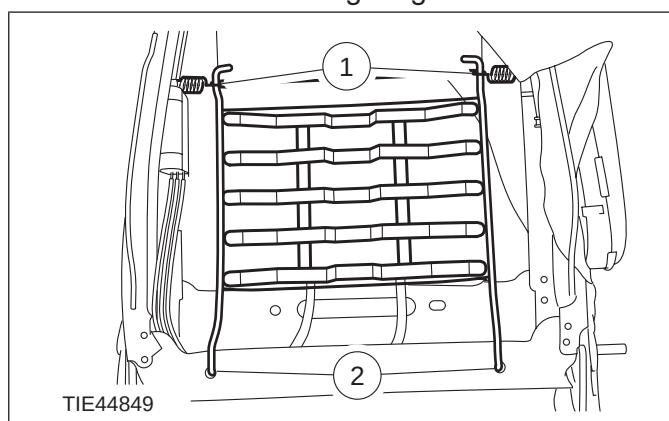
- Remove the screws.



2. Remove the front seat backrest lumbar support.

- Detach the retaining springs.

2. Detach the retaining tangs.

**Item 3 Front seat backrest recliner motor (if equipped)**

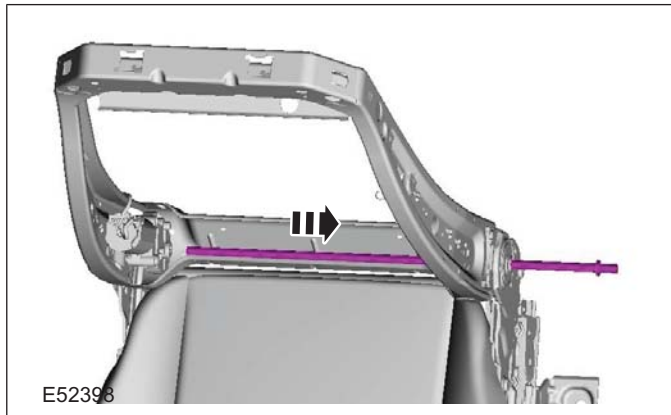
1. Remove the front seat backrest recliner motor drive shaft inner retaining clip.

- Discard the retaining clip.



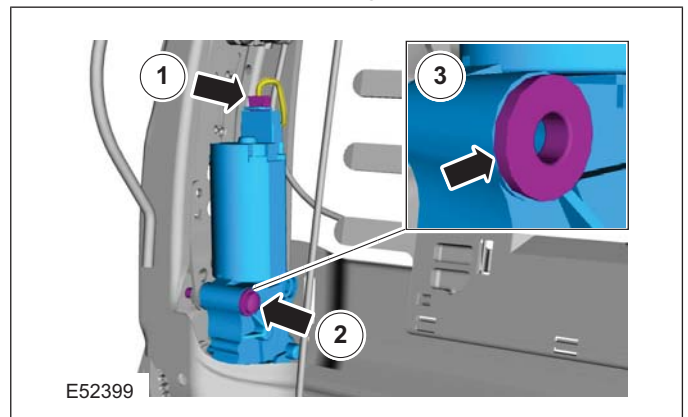
DISASSEMBLY AND ASSEMBLY

2. Detach the front seat backrest recliner motor drive shaft from the motor.



3. Remove the front seat backrest recliner motor.

1. Disconnect the electrical connector.
2. Remove the retaining bolt.
3. Remove the retaining bolt bushes.



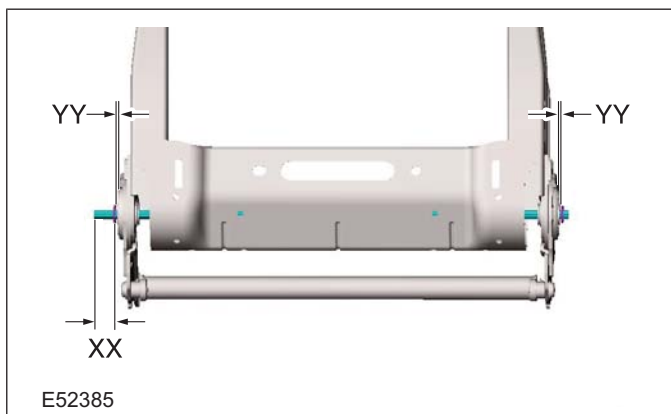
Assembly Details

Item 6 Front seat backrest frame

1. **NOTE:** If installing a new front seat backrest frame that is equipped with a front seat backrest recliner handwheel, the front seat backrest recliner handwheel drive shaft is to be aligned.

Align the front seat backrest recliner handwheel drive shaft.

- Front seat backrest recliner handwheel drive shaft end protusion at the outer side of the backrest frame XX = 25 mm.
- Clearance between the front seat backrest frame and the front seat backrest recliner handwheel drive shaft retaining clips YY = 2 mm.



Item 3 Front seat backrest recliner motor (if equipped)

NOTE: Install a new front seat backrest recliner motor drive shaft inner retaining clip.

Item 1 Front seat backrest pad

WARNING: Side air bag deployment may be impaired if the front seat backrest pad and anti-squeak mat are not correctly positioned around the side air bag module. Failure to follow this instruction may result in personal injury.