

Specifications

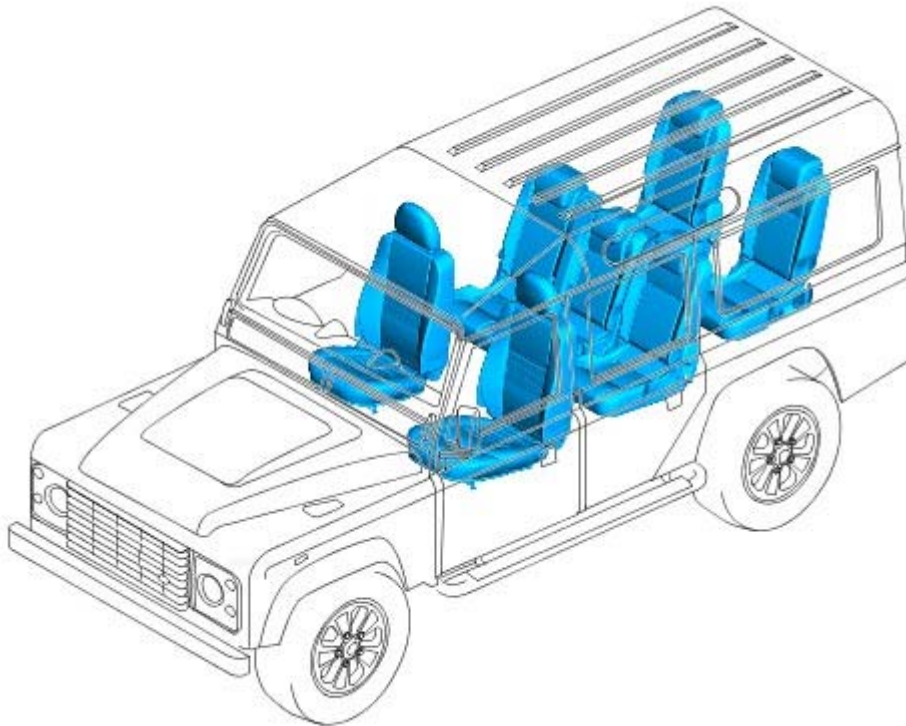
Torque Specifications

Description	Nm	lb-ft
Rear seat base stop bolt	23	17
Rear seat bolts	23	17
Rear seat nuts	23	17
+ Front seat backrest nuts and bolts	23	17
Front seat bolts	23	17
Third row seat bolts	23	17
Third row seat nuts	23	17
Third row seat nut and bolt	23	17

+ New nuts must be installed

Seats

COMPONENT LOCATION



E83752

OVERVIEW

Vehicles from 2007 model year are fitted with an all new seating system. The front seats are manually adjustable for reach and recline. Some vehicles may also feature heated front seats. The heated front seats will only operate when the ignition is switched on.

The second row seats feature a 60/40 split and are able to be folded forward to increase the loadspace in the rear of the vehicle. Defender 110 Station Wagons are fitted with 2 forward facing third row seats. The third row seats can be stowed at the side of the cabin to increase the loadspace in the rear of the vehicle. For more information on seat stowage, refer to the Owners Handbook.

PRINCIPLES OF OPERATION

Heated Front Seats

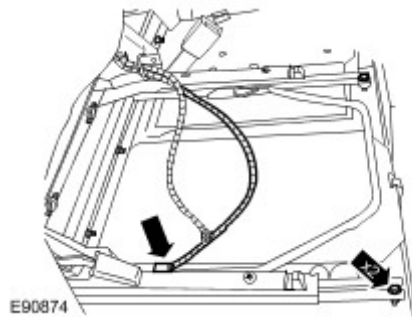
When the ignition switch is in position II (ignition on) a feed is provided to the window lift relay coil via the CJB (central junction box) . The ground path for the relay coil is controlled by the LH (left-hand) and RH (right-hand) heated seat switches. When either switch is pressed, the relay energizes and provides a battery voltage feed to the appropriate seat heater elements. Both seats contain 2 heating elements; 1 in the cushion, 1 in the backrest, which are wired in series.

The cushion elements in both front seats contain a thermostatically controlled switch. When the cushion element temperature reaches $37 \pm 3^{\circ}\text{C}$ ($98 \pm 3^{\circ}\text{F}$) the thermostat cuts the supply to both the cushion and backrest elements. When the temperature of the cushion element falls below $28 \pm 3^{\circ}\text{C}$ ($82 \pm 3^{\circ}\text{F}$) the thermostat reinstates the supply to both heater elements.

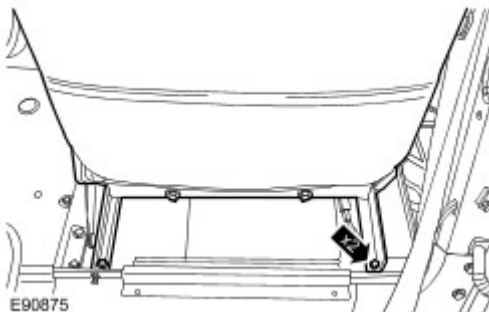
Front Seat (78.10.44/99)

Removal

- 1 . Remove the front seat cushion.
For additional information, refer to [Front Seat Cushion \(78.10.12/99\)](#).
- 2 . Remove the front 2 bolts from the front seat.
▶ Disconnect the front seat heater mat electrical connector.



- 3 . Remove the front seat.
▶ Slide the front seat forwards.
▶ Remove the 2 bolts.
▶ Collect the 8 spacer washers.



Installation

- 1 . To install, reverse the removal procedure.
▶ Tighten the bolts to 23 Nm (17 lb.ft).


Front Seat Backrest

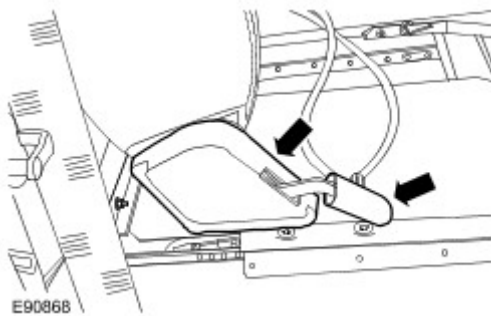
Removal



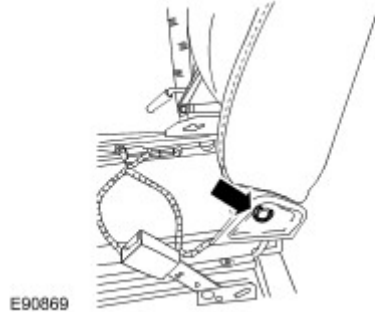
CAUTION: Do not attempt to adjust or dismantle the front seat tilt mechanism, the front seat backrest must be replaced as a complete assembly, failure to follow this instruction may result in damage to the vehicle.


- 1 . Remove the front seat cushion.
For additional information, refer to [Front Seat Cushion \(78.10.12/99\)](#).

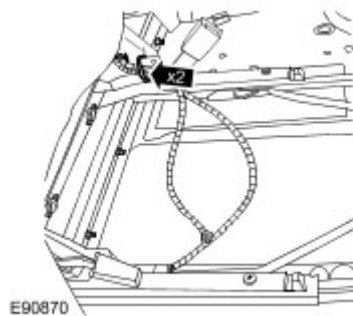
- 2 . Remove the front seat backrest hinge cover.
 Remove the front seat recliner handle.



- 3 . Remove the front seat backrest hinge clip.



- 4 . Release the front seat heater mat wiring harness.
 Remove and discard the 2 cable ties.

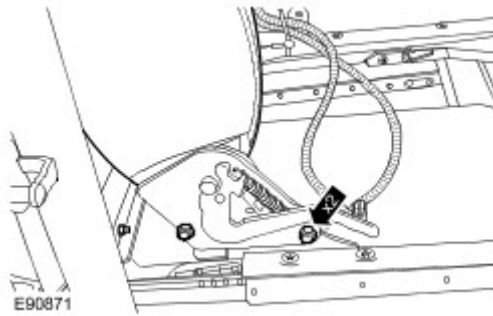


- 5 . **NOTE:**

Discard the nuts.

Remove the front seat backrest.

➤ Remove the 2 nuts and bolts.



Installation

1 . NOTE:

New nuts must be installed.

Install the front seat backrest.

➤ Tighten the nuts and bolts to 23 Nm (17 lb.ft).

2 . Secure the front seat heater mat wiring harness.

➤ Install new cable ties.

3 . Install the front seat backrest hinge clip.

4 . Install the front seat backrest hinge cover.

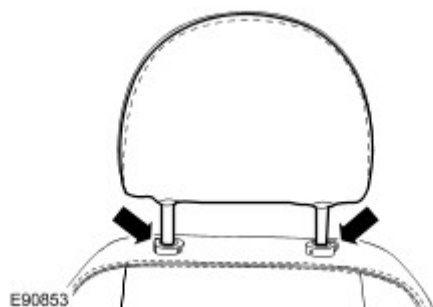
➤ Install the front seat recliner handle.

Front Seat Backrest Cover (78.90.08)

Removal

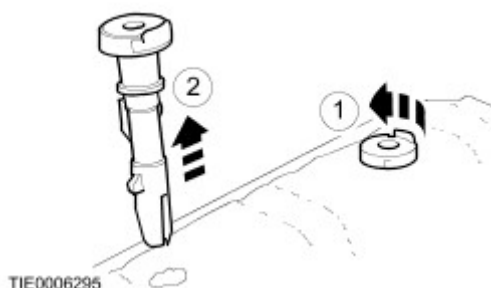
- 1 . Remove the front seat head restraint.

➤ Release the 2 clips.

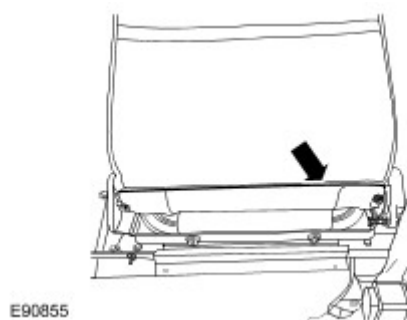


- 2 . Remove the front seat head restraint guides.

➤ Turn the front seat head restraint guides 90 degrees counter clockwise.



- 3 . Release the front seat cover lower closing strip.



- 4 . Remove the front seat backrest cover.

➤ Remove and discard the 11 hog rings.



Installation

1.

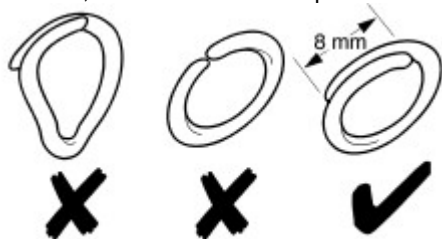


CAUTION: Care must be taken when installing the hog rings, failure to follow this instruction may result in damage to the vehicle.

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.


To install, reverse the removal procedure.

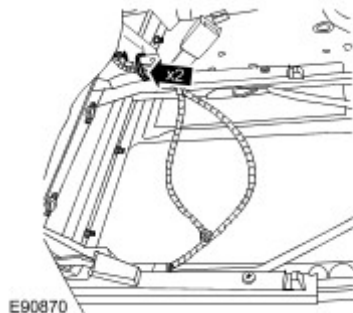


VUJ0005059

Front Seat Backrest Heater Mat (78.90.36)

Removal

- 1 . Remove the front seat backrest cover.
For additional information, refer to [Front Seat Backrest Cover \(78.90.08\)](#)
- 2 . Release the front seat heater mat wiring harness.
 Remove and discard the 2 cable ties.



- 3 . Remove and discard the front seat backrest foam backing.



- 4 . Remove and discard the front seat backrest cushion.



Installation

- 1 . Install the front seat backrest heater mat to the front seat backrest cushion.



2 . NOTE:

Clean the component mating faces.

Install the front seat backrest cushion.

▶ Secure the front seat backrest cushion using a suitable adhesive.

3 . Install the front seat backrest foam backing.

4 . Secure the front seat heater mat wiring harness.

▶ Install new cable ties.

5 . Install the front seat backrest cover.

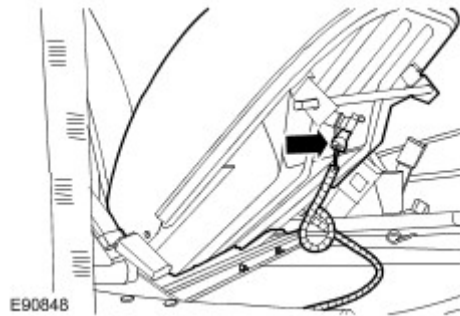
For additional information, refer to [Front Seat Backrest Cover \(78.90.08\)](#)

Front Seat Cushion (78.10.12/99)

Removal

1 . Remove the front seat cushion.

- Lift the front edge of the front seat cushion.
- Disconnect the front seat cushion heater mat electrical connector.



Installation

1 . To install, reverse the removal procedure.

Front Seat Cushion Cover (78.30.01)

Removal

1 . **NOTE:**

The front seat cushion cover is part of the front seat cushion and cannot be serviced separately.

Remove the front seat cushion.

For additional information, refer to [Front Seat Cushion \(78.10.12/99\)](#).

Installation

1 . Install the front seat cushion.

For additional information, refer to [Front Seat Cushion \(78.10.12/99\)](#).

Front Seat Cushion Heater Mat (78.30.23)

Removal

1 . **NOTE:**

The front seat cushion heater mat is part of the front seat cushion and cannot be serviced separately.

Remove the front seat cushion.

For additional information, refer to [Front Seat Cushion \(78.10.12/99\)](#).

Installation

1 . Install the front seat cushion.

For additional information, refer to [Front Seat Cushion \(78.10.12/99\)](#).

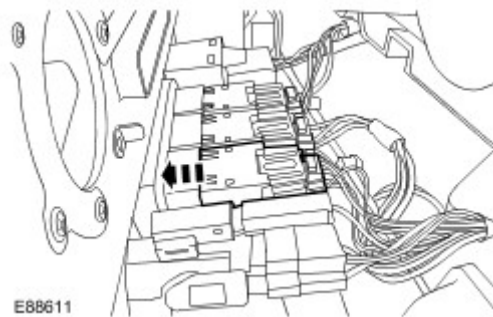
Heated Seat Switch

Removal

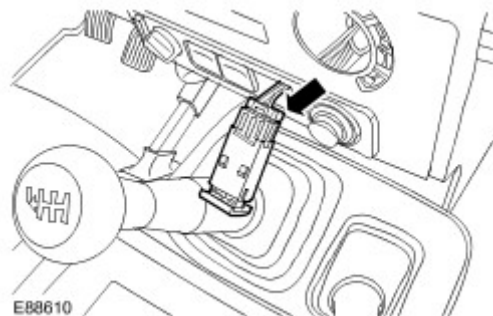
- 1 . Disconnect the battery ground cable.
For additional information, refer to [Battery Disconnect and Connect](#).
- 2 . Remove the audio unit.
For additional information, refer to [Audio Unit \(86.50.81\)](#).
- 3 . Release the instrument panel console.



- 4 . Release the heated seat switch.



- 5 . Remove the heated seat switch.
▶ Disconnect the electrical connector.



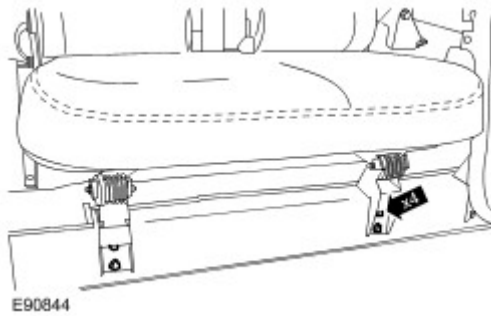
Installation

- 1 . To install, reverse the removal procedure.
- 2 . Connect the battery ground cable.
For additional information, refer to [Battery Connect](#).

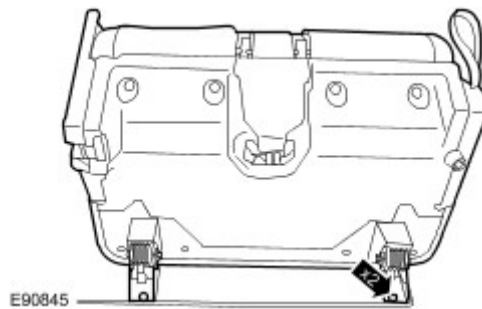
Rear Seat (78.10.70/78.10.71)

Removal

- 1 . Release the front edge of the rear seat.
 - Remove the upper 2 bolts.
 - Loosen the lower 2 bolts.



- 2 . Remove the rear seat.
 - Tilt the rear seat forwards.
 - Remove the 2 nuts.



Installation

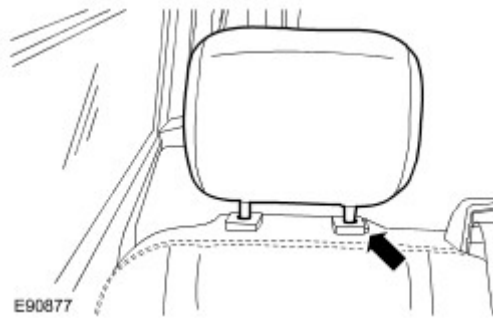
- 1 . Install the rear seat.
 - Tighten the nuts to 23 Nm (17 lb.ft).
 - Lock the rear seat back in to position.
- 2 . Secure the front edge of the rear seat.
 - Tighten the bolts to 23 Nm (17 lb.ft).

Rear Seat Backrest

Removal

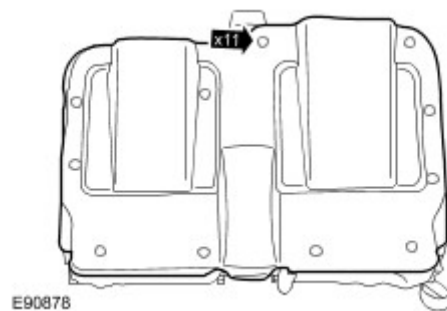
- 1 . Remove the 2 rear seat head restraints.

➤ Release the 2 clips.



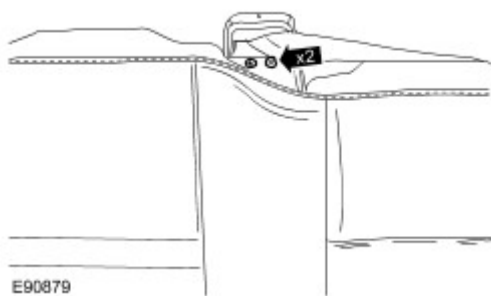
- 2 . Remove the rear seat backrest trim panel.

➤ Release the 11 clips.



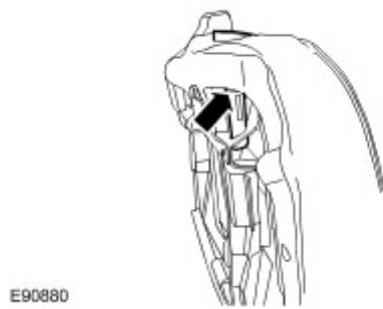
- 3 . Reposition the rear center safety belt guide cover.

➤ Remove the 2 screws.

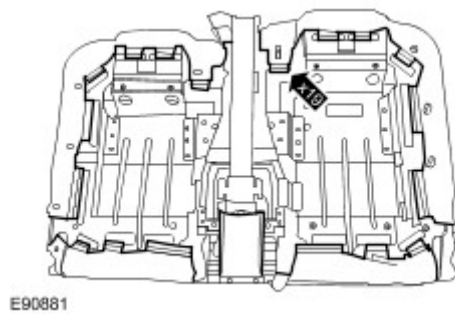


- 4 . Remove the 4 rear seat head restraint guides.

➤ Release the 4 clips.



- 5 . Remove the rear seat backrest.
 ▶ Release the 19 clips.




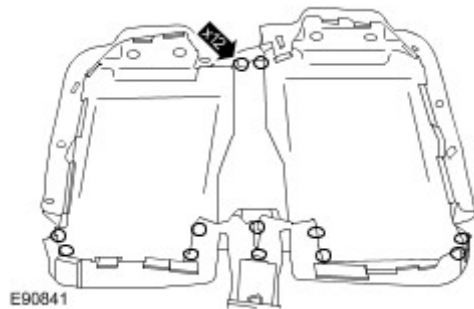
Installation


- 1 . Install the rear seat backrest.
 ▶ Secure the 19 clips.
- 2 . Install the rear seat head restraint guides.
- 3 . Secure the rear center safety belt guide cover.
 ▶ Tighten the screws.
- 4 . Secure the rear seat backrest trim panel.
 ▶ Secure with the clips.
- 5 . Install the rear seat head restraints.

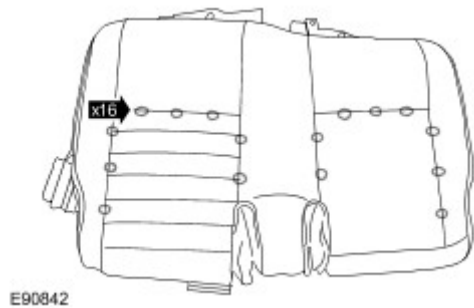
Rear Seat Backrest Cover (78.90.72)

Removal

- 1 . Remove the rear seat backrest.
For additional information, refer to [Rear Seat Backrest](#)
- 2 . Release the rear seat backrest cover.
 Remove and discard the 12 hog rings.



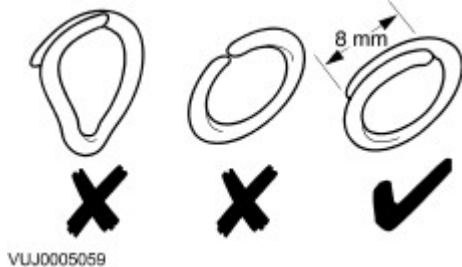
- 3 . Remove the rear seat back rest cover.
 Remove and discard the 20 hog rings.



Installation

- 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 as illustrated.

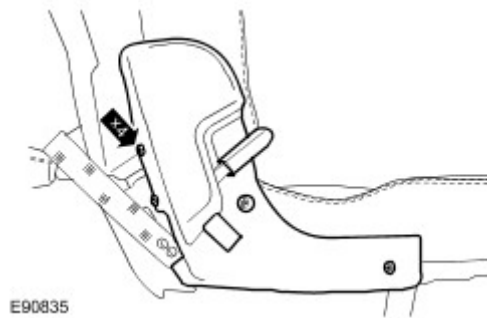
To install, reverse the removal procedure.



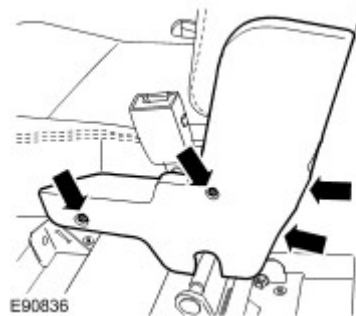
Rear Seat Cushion

Removal

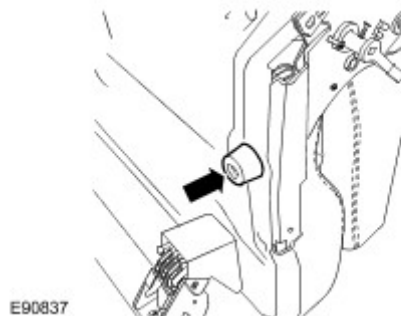
- 1 . Remove the rear seat outer hinge trim panel.
 - Remove the rear seat recliner handle.
 - Remove the 4 screws.



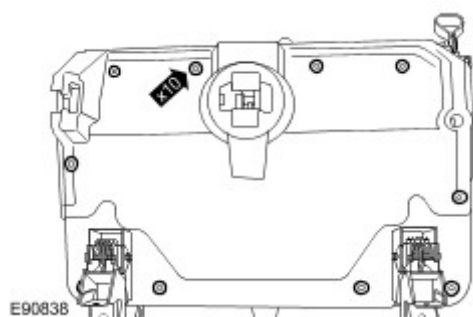
- 2 . Remove the rear seat inner hinge trim panel.
 - Remove the 4 screws.



- 3 . Remove the rear seat base stop.
 - Remove the bolt.
 - Collect the plastic washer.

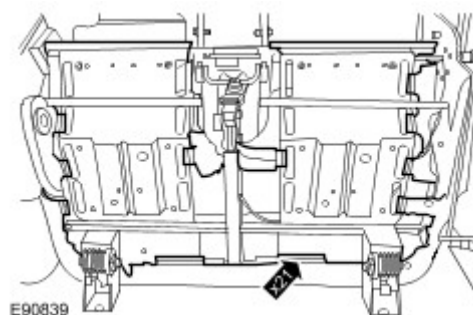


- 4 . Remove the rear seat cushion trim panel.
 - Remove the 10 clips.



5 . Remove the rear seat cushion.

➤ Release the 21 clips.



Installation

1 . Install the rear seat cushion.

➤ Secure the clips.

2 . Install the rear seat cushion trim panel.

➤ Install the clips.

3 . Install the rear seat base stop.

➤ Install the plastic washer.

➤ Tighten the bolt to 25 Nm (17 lb.ft).

4 . Install the rear seat inner hinge trim panel.

➤ Tighten the screws.


5 . Install the rear seat outer hinge trim panel.

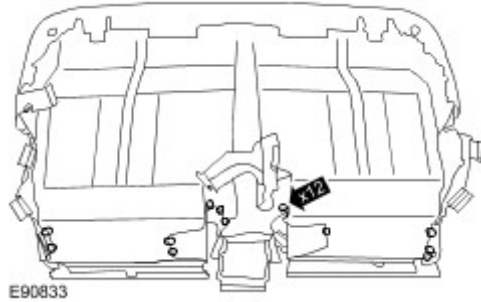
➤ Tighten the screws.


➤ Install the rear seat recliner handle.

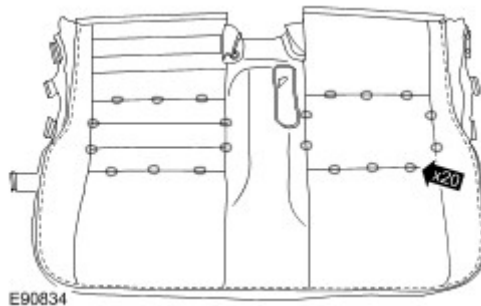
Rear Seat Cushion Cover (78.40.70)

Removal

- 1 . Remove the rear seat cushion.
For additional information, refer to [Rear Seat Cushion](#).
- 2 . Release the under side of the rear seat cushion cover.
 Remove and discard the 12 hog rings.



- 3 . Remove the rear seat cushion cover.
 Remove and discard the 20 hog rings.

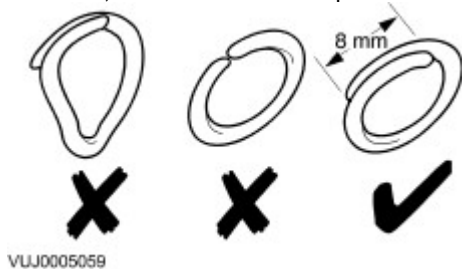


Installation

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 as illustrated.

To install, reverse the removal procedure.

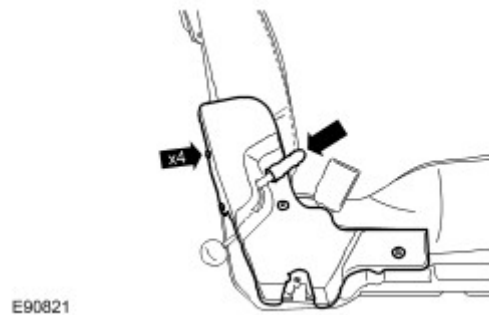


Third Row Seat (78.10.39)

Removal

- 1 . Remove the third row seat inner hinge trim panel.

- Remove the third row seat recliner handle.
- Remove the 4 screws.



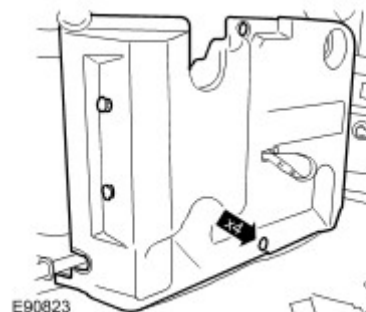
- 2 . Remove the third row seat outer hinge trim panel.

- Remove the 4 screws.



- 3 . Remove the third row seat lower trim panel.

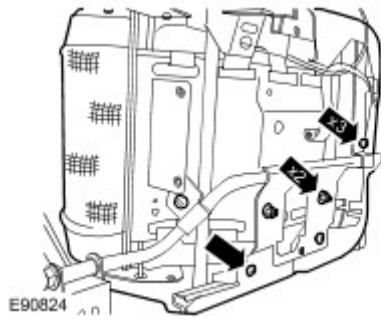
- Remove the 4 clips.



- 4 . Remove the third row seat.

- Remove the nut and bolt.
- Remove the 2 nuts.
- Remove the 3 bolts.

- ▶ Collect the 2 plastic washers.



Installation

- 1 . Install the third row seat.

- ▶ Install the plastic washers.
- ▶ Tighten the nuts to 23 Nm (17 lb.ft).
- ▶ Tighten the bolts to 23 Nm (17 lb.ft).
- ▶ Tighten the nut and bolt to 23 Nm (17 lb.ft).

- 2 . Install the third row seat lower trim panel.

- ▶ Install the clips.

- 3 . Install the third row seat outer hinge trim panel.

- ▶ Tighten the screws.

- 4 . Install the third row seat inner hinge trim panel.

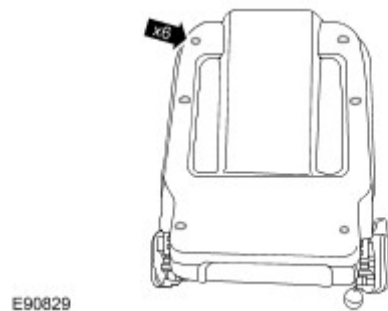
- ▶ Tighten the screws.
- ▶ Install the third row seat recliner handle.

Third Row Seat Backrest

Removal

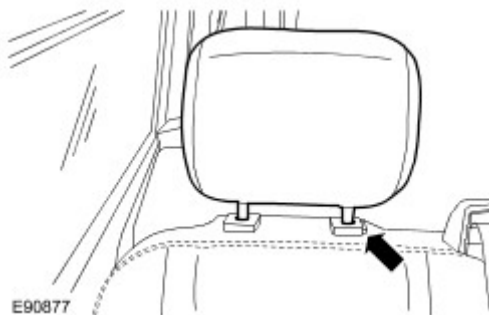
- 1 . Remove the third row seat backrest trim panel.

➤ Release the 6 clips.



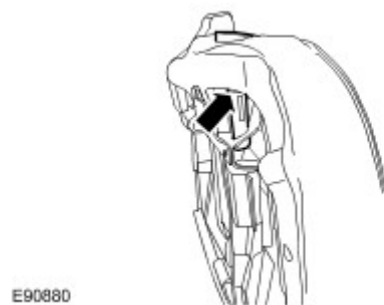
- 2 . Remove the third row seat head restraint.

➤ Release the clip.



- 3 . Remove the 2 third row seat head restraint guides.

➤ Release the 2 clips.



- 4 . Remove the third row seat backrest.

➤ Release the 12 clips.




Installation


- 1 . To install, reverse the removal procedure.

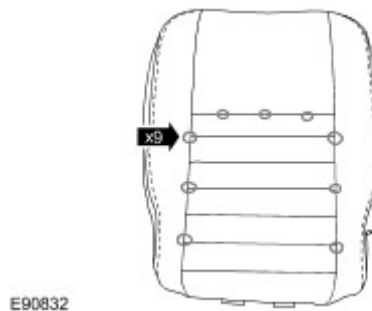
Third Row Seat Backrest Cover (78.90.17)

Removal

- 1 . Remove the third row seat backrest.
For additional information, refer to [Third Row Seat Backrest](#)
- 2 . Release the third row seat backrest cover.
 Remove and discard the 4 hog rings.



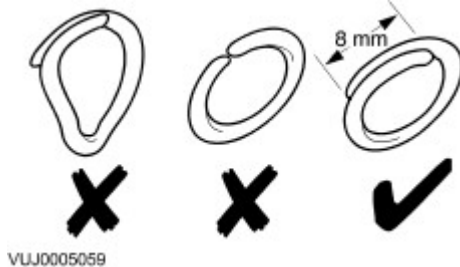
- 3 . Remove the third row seat backrest cover.
 Remove and discard the 9 hog rings.



Installation

- 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 as illustrated.

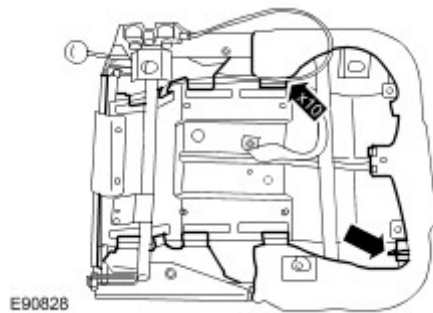
To install, reverse the removal procedure.



Third Row Seat Cushion (78.40.52)

Removal

- 1 . Remove the third row seat.
For additional information, refer to [Third Row Seat \(78.10.39\)](#).
- 2 . Remove the third row seat cushion.
 - Remove and discard the cable tie.
 - Release the 10 clips.




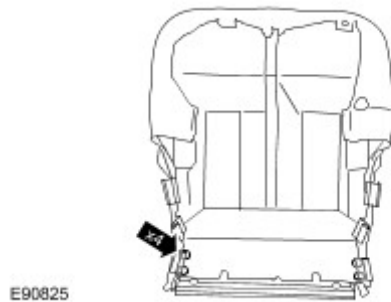
Installation


- 1 . To install, reverse the removal procedure.

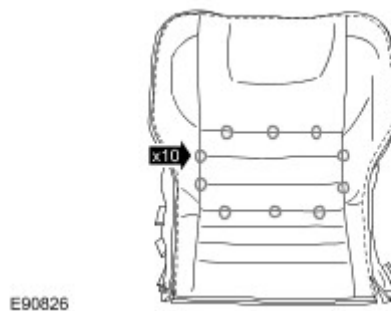
Third Row Seat Cushion Cover (78.40.06)

Removal

- 1 . Remove the third row seat cushion.
For additional information, refer to [Third Row Seat Cushion \(78.40.52\)](#)
- 2 . Release the third row seat cushion cover.
 Remove and discard the 4 hog rings.



- 3 . Remove the third row seat cushion cover.
 Remove and discard the 10 hog rings.



Installation

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 as illustrated.

To install, reverse the removal procedure.

