

SECTION : 501-20a Occupant Restraints — Active

VEHICLE APPLICATION : 2008.0 Falcon

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SPECIFICATIONS


Torque Specifications


Description	Nm
Safety belt retractor bolt (all)	35
Safety belt buckle and pretensioner bolt	33
Safety belt lower anchor bolt (all)	35
Safety belt shoulder height adjuster bolt	35
Safety belt sash guide bolt	35
Child safety seat tether anchor bolt	18
Rear safety belt double buckle	35
Rear centre safety belt buckle nut	35
Ute centre safety belt retractor bolt	35
Ute centre safety belt retractor bracket bolts (all)	35
Ute centre safety belt lower anchor bolt	35
Ute centre safety belt buckle bolt	35



DESCRIPTION AND OPERATION

Occupant Restraint System

 **WARNING:** All safety belt components include retractors, buckles, shoulder height adjusters, child safety tether bracket, safety belt bezels and attaching hardware must be replaced after they have been subjected to loading by occupants in a collision. Seat belt assemblies not in use during a collision should also be inspected and replaced if either damage or improper operation is noted.

 **WARNING:** Each seating position in the vehicle has a specific safety belt assembly, which consists of one buckle and one tongue. The safety belt assembly is designed to be used as a pair and is not to be used across seating positions.

The active restraint system consists of the following:

Sedan: Front outboard seat safety belt energy management retractors and shoulder height adjusters, attached to the body over the B pillar trim.

Commercial vehicle with Passenger Airbag: Front outboard seat safety belt energy management retractors and fixed shoulder sash guides, attached to the body over the B pillar trim

Front outboard bucket seat safety belt buckles, attached to the inboard side of the seat.

On the commercial vehicle fitted with an auto column gear shift, the front centre seat safety belt buckle is attached to the left hand side of the rear centre seat mounting foot.

On the commercial vehicle fitted with an auto column gear shift, the front centre seat safety belt retractor is attached to the rear body panel behind the trim panel.

Rear seat safety belt retractors for the outboard and centre seats, attached to the parcel shelf below the parcel shelf trim panel.

Rear centre and left hand side safety buckles, attached to the floor pan under the seat cushion.

Rear centre and right hand side safety buckle, attached to the floor pan under the seat cushion.

Centre safety buckle is a non-interlatch type.

The child safety seat tether anchor, attached to the parcel shelf.

The seat safety belt system utilises three-point lap and sash safety belt in all seating positions.

The retractors in all seating positions feature ELR. During any period of sudden deceleration, or under torsion load when cornering at speed, a weight within the safety belt retractor moves a locking pawl against the teeth on the retractor wheel, which then locks the retractor preventing any further release of webbing. As soon as the load applied onto the retractor through the safety belt webbing is removed the locking pawl

releases the retractor reel and normal movement is returned to the retractor.

Safety Belt Buckle Pretensioner and Switch

The front seat outboard safety belt buckles incorporate pretensioners and safety belt buckle switches, which both are connected to the restraints control module (RCM) mounted on the centre tunnel between the front seats.

If a fault is detected within the buckle system, the RCM will illuminate the restraints indicator lamp (RIL) located in the instrument cluster. Refer to Section 501-20b.

The safety belt buckle pretensioners will deploy at the same time with the front air bags in the event of a severe frontal collision. During a frontal collision, a mechanism in the safety belt buckle system is triggered, which causes the buckle to move downward and pull excess webbing from the lap and sash safety belts.

The safety belt buckle pretensioner is not triggered in the event of a minor frontal, side or rear collision.

The safety belt buckle pretensioner is not triggered in the event of a frontal collision, if the safety belt tongue is not latched in the buckle.

After the ignition is switched on and the front driver seat safety belt buckle is not latched in, the seatbelt warning indicator in the instrument cluster will be on until the safety belt buckle is latched in

Belt Minder

This feature provides additional reminders to the driver that the driver's or the passenger's seat belt (if the front passenger seatbelt reminder mat is fitted) is unbuckled by intermittently sounding a chime and illuminating the seat belt warning lamp in the instrument cluster.



DESCRIPTION AND OPERATION (Continued)

For vehicles without the front passenger seatbelt reminder mat:

IF....	THEN....
The driver is not buckled when the ignition is ON	The seat belt warning light illuminates until the seat belt is buckled
The driver is not buckled and the vehicle is moving more than 10 km/h after the ignition is switched on.	The Belt Minder feature is activated - the seat belt indicator light flashes and the warning chime sounds 6 times then pauses 10 seconds, repeating this cycle and exhausting after approximately 5 minutes or until the driver's seat belt is buckled. The text message "FASTEN FRONT SEAT BELT" appears on the cluster for 5 seconds during the first cycle.
The driver is buckled while the seat belt indicator light is illuminated and the seat belt warning chime is sounding.	The Belt Minder feature will stop activating (no light, no chime).
The driver is buckled before the ignition switch is turned to the ON position.	The Belt Minder feature will not activate and the seat belt indicator light is off.
The Belt Minder function is permanently deactivated and the driver is not buckled when the ignition is ON.	The seatbelt indicator light will remain ON for 65 secs or until the driver is buckled.
The vehicle speed drops below 10 km/h while the Belt Minder is triggering.	The Belt Minder will not stop activating until the end of the triggering cycle of approximately 5 minutes or until the driver is buckled.

For vehicles with the front passenger seatbelt reminder mat:

IF....	THEN....
Both front occupants are not buckled when the ignition is ON	The seat belt indicator light illuminates until both occupants are buckled
The driver is buckled and the front outboard passenger is not buckled when the ignition is ON	The seat belt indicator light illuminates until the front outboard passenger is buckled
Either the driver or the front outboard passenger is not buckled and the vehicle is moving more than 10 km/h after the ignition is switched on.	The Belt Minder feature is activated - the seat belt indicator light flashes and the warning chime sounds 6 times then pauses 10 seconds, repeating this cycle and exhausting after approximately 5 minutes or until both front occupants are buckled. The text message "FASTEN FRONT SEAT BELT" appears on the cluster for 5 seconds during the first cycle.
Both front occupants are buckled while the seat belt indicator light is illuminated and the seat belt warning chime is sounding.	The Belt Minder feature will stop activating (no light, no chime).
Both front occupants are buckled before the ignition switch is turned to the ON position.	The Belt Minder feature will not activate and the seat belt indicator light is off.
The Belt Minder function is permanently deactivated and either the driver or the front passenger is not buckled when the ignition is ON.	The seatbelt indicator light will remain ON for 65 secs or until both occupants are buckled
The vehicle speed drops below 10 km/h while the Belt Minder is triggered	The Belt Minder will not stop activating until the end of the triggering cycle of approximately 5 minutes or until both occupants are buckled.

Energy Management Retractor

The front driver and passenger (if a passenger air bag is fitted) seat safety belt retractors, attached to the base of the B pillar, have an energy management feature designed to provide a controlled amount of webbing pay-out in severe frontal crashes. Once activated, the spindle in the retractor deforms so that

the belt forces transferred to the occupant's chest do not rise above a predetermined load.

Web Grabber Retractor

On the commercial vehicle fitted with an auto column gear shift, the front centre seat safety belt retractor is a webgrabber & is attached to the rear body panel behind the trim panel.



DESCRIPTION AND OPERATION (Continued)

Child Restraint System

⚠ WARNING: Rear-facing child restraint seat must not be placed in the front seat where a passenger air bag is fitted.

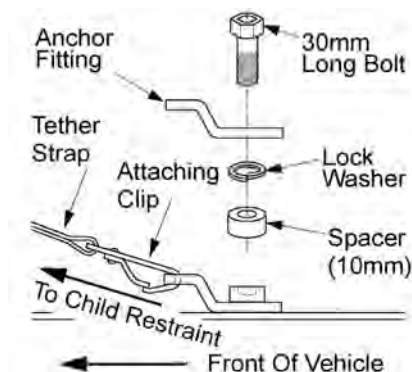
Infants and small children should be restrained at all times in an approved child restraint suited to the vehicle and which conforms to AS1754-1991. Be sure to read the instructions provided by the restraint manufacturer, or consult an approved Restraint Fitting Station.

Your automobile club or local vehicle registration authority can provide location details of fitting stations.

Use the child restraint seat only for the purpose it was intended. Observe the manufacturer's maximum load or weight specifications. Do not carry other articles in the child seat.

A child restraint anchor fitting is installed in the rear centre anchorage position.

Illustrations of the restraint attachment clip and anchor fitting are only applicable to child restraint attachment clips conforming to AS1754-1991. If your child restraint does not have an approved latched-hook attachment clip, you should consult an approved Restraint Fitting Station.

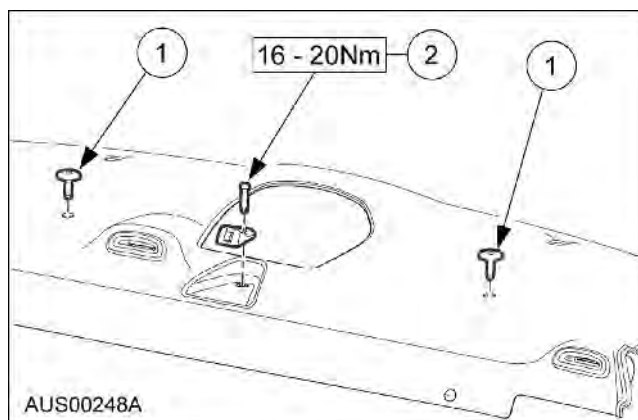


Item	Description
1	Anchor Fitting
2	Attachment Clip
3	Upper Tether Strap
4	Lock Washer
5	Spacer

⚠ WARNING: Child restraint anchorages and fittings are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstances are they to be used for adult seat belts or harnesses or for attaching other items or equipment to the vehicle. Incorrectly fitted child restraints may swing, twist, tip or come away causing death or injury.

Anchorage points for the installation of child restraint anchor fittings are provided in the specific locations.

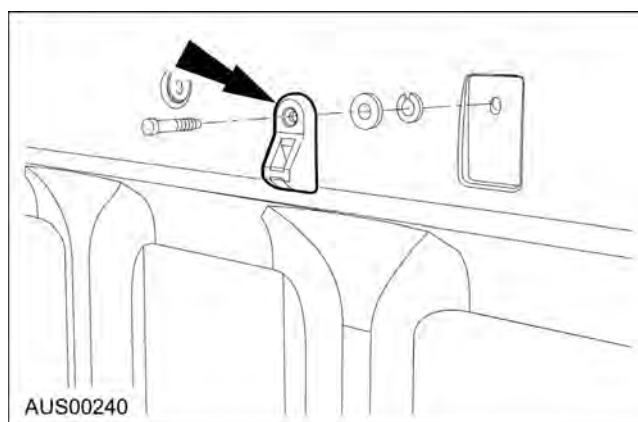
Sedan



Item	Description
1	Plug
2	Bracket Mount

To gain access to the anchorage points it is necessary to remove the small plug from the anchorage to install the appropriate bolt, lock washer, anchor fitting and spacer.

Ute



Ensure the anchor fitting is correctly oriented towards the front of the vehicle, when the bolt is tightened.

The components supplied with child restraints conforming to AS1754-1991 must be selected to suit the anchorage point(s) in the vehicle.

Additional anchorage components may be obtained from child restraint manufacturers or suppliers. Please read and follow all the instructions supplied with the child restraint. If you have any doubts, contact the child restraint manufacturer or consult an approved Restraint Fitting Station.

Child restraint anchorage points are manufactured into the vehicle. Consult the car owner's manual for the location of the anchorage points.



DESCRIPTION AND OPERATION (Continued)

WARNING: If the child restraint attachment bolt is removed from the floor of your vehicle the hole must be effectively sealed to prevent exhaust gases entering the vehicle interior. Reinstall the plug originally fitted in the hole or seal the hole with a suitable plug or suitable bolt.



DIAGNOSIS AND TESTING

Occupant Restraint System

Inspection and Verification

1. Verify the customer concern by operating the safety belts
2. Visually inspect for obvious signs of mechanical and electrical damage. Refer to the Visual Inspection Chart.

Visual Inspection Chart

Mechanical	Electrical
Webbing Safety belt retractor and tongue assembly Safety belt buckle and pretensioner Safety belt shoulder height adjuster	Safety belt buckle switch Wiring harnesses and connectors RCM Warning indicator lamp on cluster

3. If an obvious cause for an observed or reported concern is found, correct the cause before proceeding to the next step.
4. If the cause is not visually evident, RETRIEVE the DTCs.
5. If DTC B2434 or B2435 or B2438 or B2439 or B2691 or B2692 is displayed by IDS. REFER to Section 501-20B, DIAGNOSIS AND TESTING.
6. If no DTCs are displayed relating to the symptom, REFER to the Symptom Chart.

Symptom Chart

Condition	Source	Action
Normal mode - occupant restraint system inoperative	Webbing Safety belt retractor	CARRY OUT the Component Test in this section.
The Seat belt indicator lamp is inoperative	Safety belt switch Circuitry RCM	Go to PinPoint Test A REPLACE seatbelt indicator lamp in the cluster

PINPOINT TEST A : THE SEAT BELT INDICATOR LAMP IS INOPERATIVE



WARNING: If the supplemental restraint system (SRS) is being serviced, the system must be deactivated and restraint system diagnostic tools must be installed.

Refer to Supplemental Restraint System (SRS) Deactivation and Reactivation in this section.

The airbag restraint system diagnostic tools must be removed and the airbag modules reconnected when the system is reactivated to avoid non-deployment in a collision, resulting in possible personal injury.

Never probe the electrical connectors on the airbag, side airbag or side air curtain modules. Doing so can result in airbag deployment, which can result in personal injury.

The safety belt buckle pretensioner is pyrotechnic device. Never probe the electrical connectors on the safety belt buckle pretensioners. Doing so can result in pretensioner deployment, which could result in personal injury.



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

NOTE: Diagnostics or repairs are not to be performed on a seat equipped with a seat side airbag with the seat in the vehicle. Prior to attempting to diagnose or repair a seat concern when equipped with a seat side airbag, the seat must be removed from the vehicle and the restraint system diagnostic tools must be installed in the seat side airbag electrical connectors. **The restraint system diagnostic tools must be removed prior to operating the vehicle over the road.**

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

SRS components should only be disconnected or reconnected when instructed to do so within a pinpoint test step. Doing so can result in correct diagnosis of the SRS.

Most faults are due to connector and/or wiring concerns. Carry out a thorough inspection and verification before proceeding with the pinpoint test.



DIAGNOSIS AND TESTING (Continued)

Test Step		Result / Action to Take
A1	CHECK THE DRIVER SAFETY BELT BUCKLE SWITCH FOR OPEN CIRCUIT	
	<p>Key in OFF position.</p> <p>Depower the SRS. Refer to SRS Depowering and Repowering in Section 501-20B.</p> <p>Disconnect: RCM C189a and C189b.</p> <p>Disconnect: Driver Safety Belt Buckle Switch C233.</p> <p>Measure the resistance between RCM C189b-25, circuit 85 (B-L), harness side and driver safety belt buckle switch C233-2, circuit 85 (B-L), harness side.</p> <p>Is the resistance less than 0.5 ohm?</p>	<p>Yes Go to A2</p> <p>No REPAIR circuit 85 (B-L). TEST the system for normal operation.</p>
A2	CHECK THE PASSENGER SAFETY BELT BUCKLE SWITCH FOR OPEN CIRCUIT	
	<p>Disconnect: Passenger Safety Belt Buckle Switch C234.</p> <p>Measure the resistance between RCM C189b-26, circuit 1514 (R-B), harness side and passenger safety belt buckle switch C234-2, circuit 1514 (R-B), harness side.</p> <p>Is the resistance less than 0.5 ohm?</p>	<p>Yes Go to A3</p> <p>No REPAIR circuit 1514 (R-B). TEST the system for normal operation.</p>
A3	CHECK CIRCUIT 1203 (B) FOR AN OPEN	
	<p>Measure the resistance between RCM C189b-20, circuit 1203 (B), harness side and driver safety belt buckle switch C233-1, circuit 1203C (B), harness side.</p> <p>Measure the resistance between RCM C189b-20, circuit 1203 (B), harness side and driver safety belt buckle switch C234-1, circuit 1203B (B), harness side.</p> <p>Is the resistance less than 0.5 ohm?</p>	<p>Yes Go to A4</p> <p>No REPAIR circuit 1203C (B) or 1203B (B). TEST the system for normal operation.</p>
A4	CHECK CIRCUIT 1203 (B) FOR OPEN BETWEEN THE RCM AND THE FRONT PASSENGER SEAT MAT SENSOR	
	<p>Disconnect: Front Passenger Seat Mat Sensor C358. Section 501-10(Seat System), REMOVAL and INSTALLATION.</p> <p>Measure the resistance between C189b-20, circuit 1203 (B), harness side and passenger seat mat sensor C358-1, circuit 1203X (B), harness side.</p> <p>Is the resistance less than 0.5 ohm?</p>	<p>Yes Go to A5</p> <p>No REPAIR circuit 1203X (B). TEST the system for normal operation.</p>
A5	CHECK CIRCUIT 1556 (LG-P) FOR OPEN CIRCUIT	
	<p>Measure the resistance between C189b-24, circuit 1556 (LG-P), harness side and passenger seat mat sensor C358-2, circuit 1556 (LG-P), harness side.</p> <p>Is the resistance less than 0.5 ohm?</p>	<p>Yes Go to A6</p> <p>No REPAIR circuit 1556 (LG-P). TEST the system for normal operation.</p>



DIAGNOSIS AND TESTING (Continued)

Test Step		Result / Action to Take
A6	CHECK THE FRONT PASSENGER SEAT MAT SENSOR	
Load the front passenger seat mat sensor by making the seat occupied. Measure the resistance of the front passenger seat mat sensor, between C358-1, circuit 1203 and C358-2, circuit 1556. NOTE: In the case of an occupied seat, the Sensor Mat resistance drops below a threshold value. Is the resistance less than 100 ohms?		Yes INSTALL a new front passenger seat cushion assembly. TEST the system for normal operation. No INSTALL a new front passenger seat mat sensor. Refer to Section 501-10 RECONNECT all connectors and TEST the system for normal operation.

Component Tests**Poor Retraction**

If a safety belt does not retract correctly, check that the trim bezels are correctly installed and not rubbing against the safety belt webbing. Where necessary, check that the safety belt webbing is not rubbing at one end of the retractor cover slot and, if so, correct by loosening the retaining bolt, aligning the retractor to centralise the safety belt webbing and retighten the bolt.

Functional Test

WARNING: It is important that during this test the driver and passenger allows the safety belts to provide the restraint and do not attempt to anticipate the sudden deceleration. The steering wheel should not be used as a brace. However, both drive and passenger should prepare themselves for the possibility that the safety belt will not lock. The passenger should hold their hands in front of them, just clear of the instrument panel or front seat backrest, depending on which safety belt is being tested. Failure to follow these instructions may result in personal injury.

1. Select for this test a quiet or private stretch of road. Make sure that the road is clear and that full visibility is maintained at all times.
2. Both driver and passenger should adopt a normal, comfortable seating position. Both occupants should wear the safety belts and the safety belt webbing must be correctly adjusted, with no slack.
3. Proceed at a speed of 10 km/h (6 mph). Do not exceed 10 km/h (6 mph) for this test.
4. Apply the foot brake sharply to stop the vehicle. If both shoulder straps lock up, the safety belt retractor assemblies are functioning properly.
5. Conduct the test twice in each front and rear passenger seat position.
6. Any safety belt retractor, which does not restrain the wearer during this test, must not be reused. A new complete safety belt must be installed.

Static Test


With the vehicle stationary and on level ground take firm hold of the safety belt webbing (on the tongue side of the safety belt upper anchor) and pull out quickly. The retractor should lock within 0.25 meter (10 inches), preventing further webbing payout. Any safety belt retractor from which it is possible to extract further webbing, must not be used. A new complete safety belt must be installed.



GENERAL PROCEDURES


Occupant Restraints — Active

Safety Belt Cleaning

 **WARNING:** Do not bleach or re-dye the webbing, as the webbing may weaken.

Clean the safety belt webbing only with a mild soap solution recommended for cleaning upholstery or carpets. Follow the instruction provided with soap.


Safety Belt Procedure After a Collision

 **WARNING:** All safety belt assemblies including retractors, buckles, front seat belt buckle support assemblies, shoulder belt height adjusters, if so equipped, child safety seat tether attachments, and attaching hardware should be inspected after any collision. All belt assemblies should be replaced unless a qualified technician finds the assemblies show no damage and operate correctly. Belt assemblies not in use during a collision should also be inspected and replaced if either damage or improper operation is noted.


NOTE: Safety belt assemblies should be periodically inspected to make sure they have not become damaged and that they remain in correct operating condition, particularly if they have been subjected to severe stress. Before installing the new safety belt assembly, the safety belt attaching areas must be inspected for damage and distortion. If the attaching points are damaged and distorted, the sheet metal must be reworked back to its original shape and structural integrity.

Install the new safety belt(s) using the appropriate instructions. Perform the Functional Test.

Driver and Front Passenger Belt Minder Permanent Deactivation/Activation

 **CAUTION:** The driver and passenger Belt Minder feature can be permanently deactivated/activated if the driver performs the following procedure. Before following the procedure, make sure that:

- the parking brake is on
- the gearshift is in P (Park) (automatic transmission) or the neutral position (manual transmission)
- the ignition switch is in the OFF position
- all vehicle doors are closed
- the driver's seat belt is unbuckled
- the parklights/headlights are OFF

 **WARNING:** To reduce the risk of injury, do not deactivate/activate the Belt Minder feature while driving the vehicle.

1. Turn the ignition switch to the ON position. (DO NOT START THE ENGINE)
2. Wait until the seatbelt indicator light turns off.
3. Buckle /unbuckle 9 times, ending in unbuckled state (all within 60 seconds).
4. This will activate Belt Minder if it is currently deactivated, or activated Belt Minder if it is currently deactivated.

Confirm successful deactivation / activation of Belt Minder by watching the seatbelt indicator light flashes 3 times.

Seatbelt Minder Rear (where fitted)

For operational information on this system refer to Instrument Cluster Section 413-01.

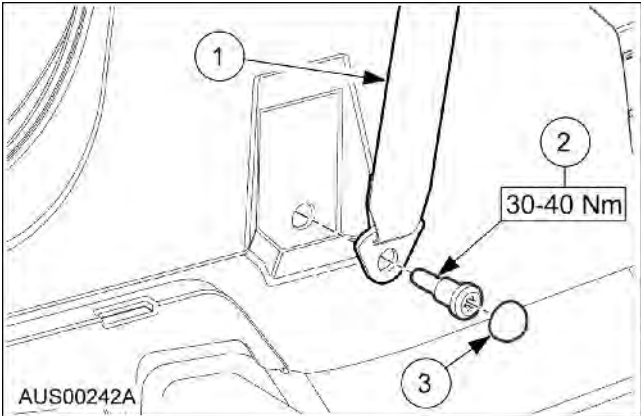


REMOVAL AND INSTALLATION

Front Safety Belt Retractor

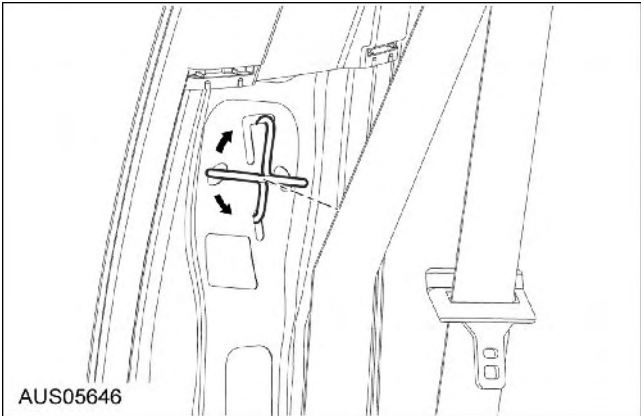
Removal

- 1. Remove the safety belt anchor.
Remove plastic bolt cap
Remove the retaining bolt.
Remove the safety belt anchor

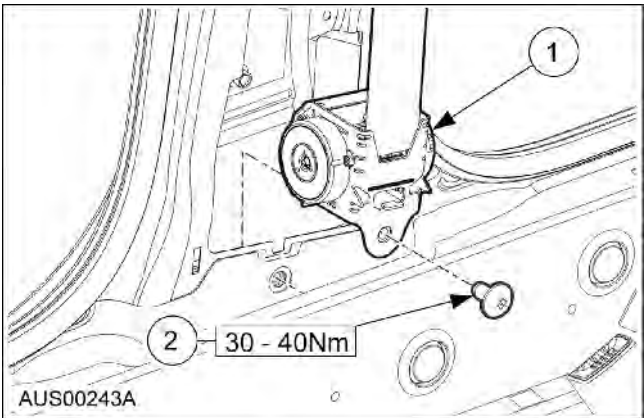


Item	Description
1	Belt & Retractor Asy Frt
2	Bolt 7/16 20
3	Screw Cap

- 2. Remove the B pillar lower trim panel. Refer to Section 501-05
- 3. Remove the safety belt web guide

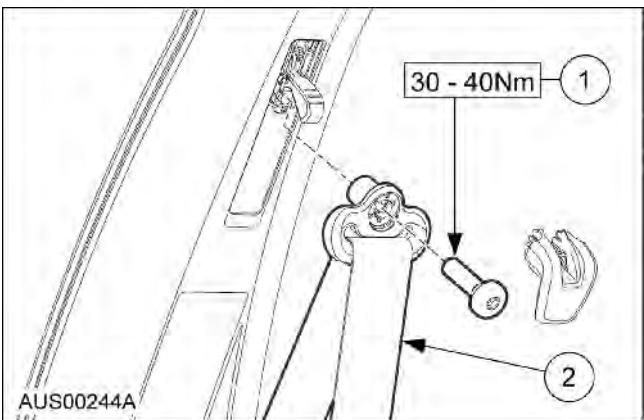


- 4. Remove the front safety belt retractor.
Remove the retaining bolt
Remove the front safety belt retractor



Item	Description
1	Belt & Retractor Asy Frt
2	Screw M10x1.5

- 5. Remove the safety belt shoulder sash guide cover
- 6. Remove the safety belt shoulder sash guide.
Remove the retaining bolt
Remove the front safety belt

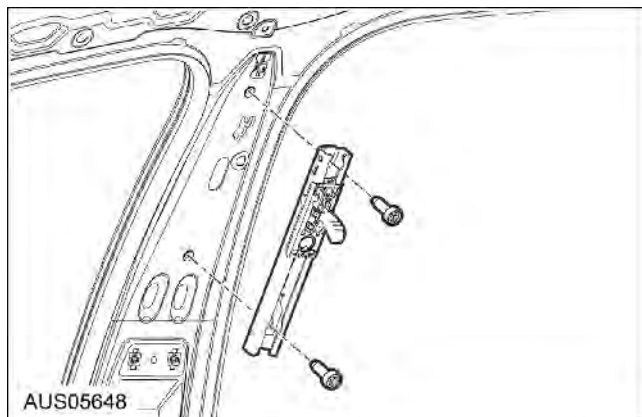


Item	Description
1	Screw 7/16x35
2	Belt & Retractor Asy Frt



REMOVAL AND INSTALLATION (Continued)

7. Remove the B pillar upper trim panel. Refer to Section 501-05



8. Remove the safety belt shoulder height adjuster.
Remove the retaining bolts
Remove the safety belt shoulder height adjuster.

Installation

1. To install, reverse the removal procedure.
NOTE: Make sure to tighten all bolts to specification.
NOTE: Make sure the safety belt webbing is not twisted prior to installation.
NOTE: Make sure to align and install the safety belt retractor locating ear into the B-pillar sheet metal before installing the bolt.

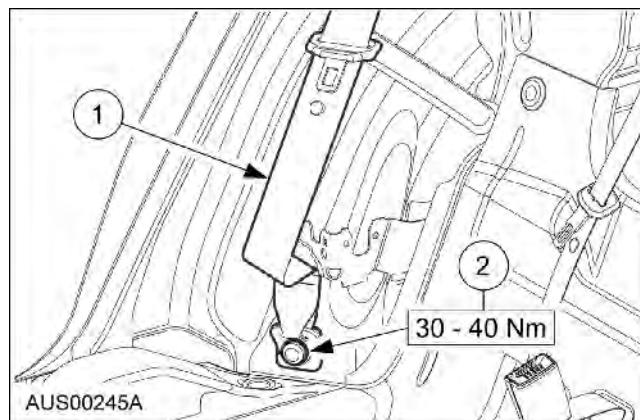
2. Check the active restraint system for correct operation.

Rear Outer Safety Belt Retractor

Removal

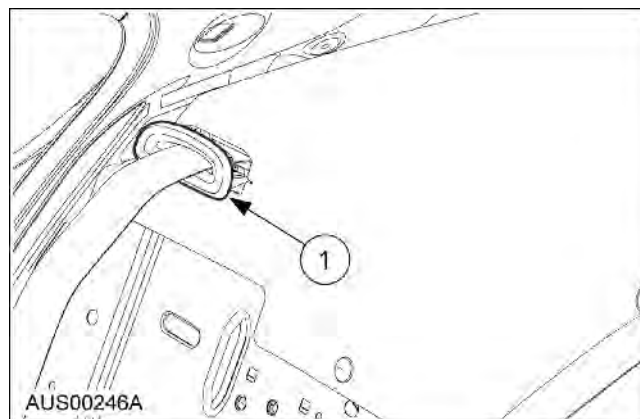
1. Remove the rear seat cushion. Refer to Section 501-10.

2. Remove the safety belt anchor.
Remove the retaining bolt
Remove the safety belt anchor



Item	Description
1	Belt & Retractor Asy Rr
2	Bolt Corflex (Pt of item 1)

3. Remove the safety belt trim
Pry off the safety belt trim from the package tray trim



Item	Description
1	Safety belt trim (Pt of item 3)
2	Bolt Corflex (Pt of item 3)
3	Belt & Retractor Asy Rr
4	Pkg Tray Trim



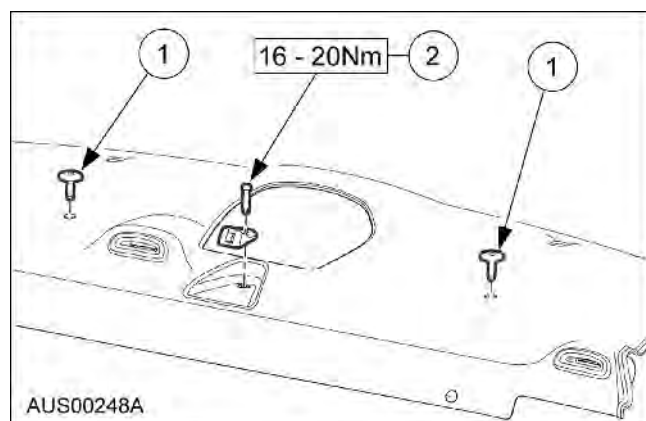
REMOVAL AND INSTALLATION (Continued)

4. Remove the child safety seat tether anchor

Using a 5mm hexagon key, remove the bolt

Remove the child safety seat tether anchor on the package tray trim

Remove firtree clips



Item	Description
1	Plug
2	Bracket - Child Seat Back Mount

5. Remove the package tray trim. Refer to Section 501-05.

6. Remove the rear safety belt retractor.

Feed the safety belt webbing through the package trim opening

Remove the retaining bolt(s)

Remove the rear safety belt retractor

Installation

1. To install, reverse the removal procedure.

NOTE: Make sure to tighten all bolts to specification.

NOTE: Make sure the safety belt webbing is not twisted prior to installation.

NOTE: Make sure to align and install the safety belt retractor locating tab into the package tray panel before installing the bolt.

2. Check the active restraint system for correct operation.

Rear Centre Safety Belt Retractor

Removal

1. Remove the rear seat cushion. Refer to Section 501-10.

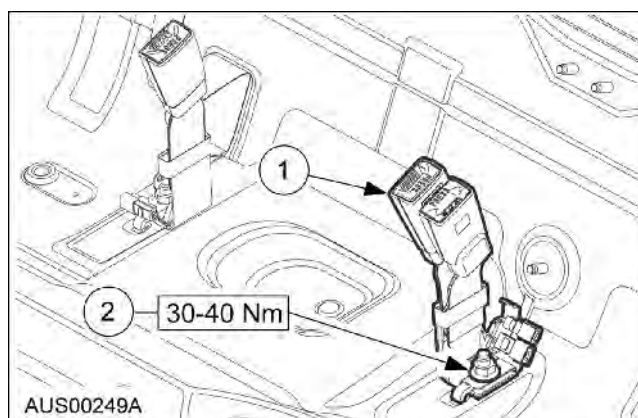
2. Remove the safety belt buckle and rear centre anchor.

Disconnect the rear belt minder electrical connectors - where fitted to vehicle

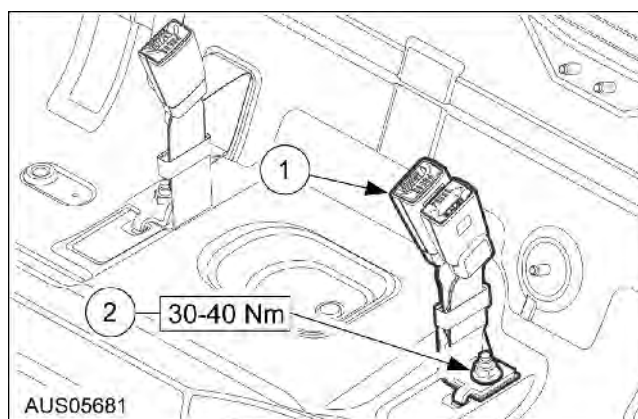
Remove the nut

Remove the safety belt anchor

Hi Series



Lo Series



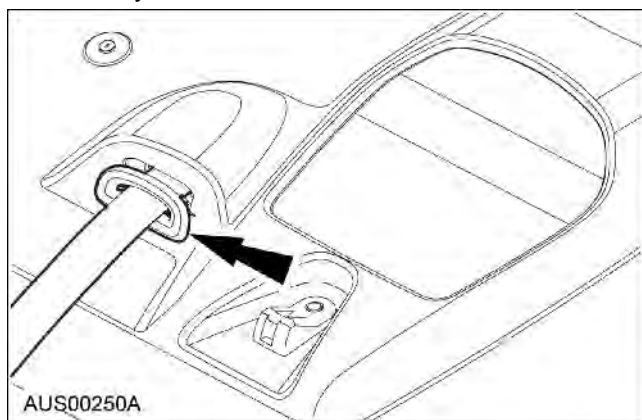
Item	Description
1	Belt & Retractor Asy Rr Ctr
2	Nut M12



REMOVAL AND INSTALLATION (Continued)

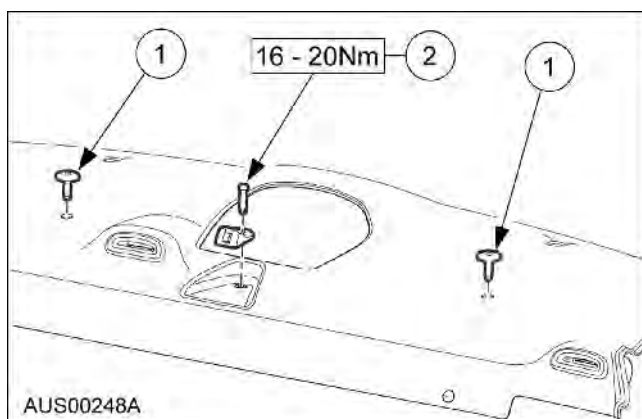
3. Remove the safety belt trim

Pry off the safety belt trim from the package tray trim



4. Remove the child safety seat tether anchor (Sedan only)

Using a 5mm hexagon key, remove the bolt
Remove the child safety seat tether anchor on the package tray trim
Remove firtree clips



Item	Description
1	Plug
2	Bracket - Child Seat Back Mount

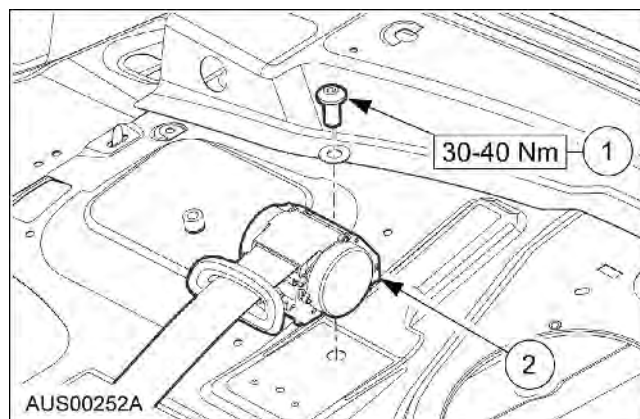
5. Remove the package tray trim. Refer to Section 501-05.

6. Remove the rear centre safety belt retractor.

Feed the safety belt webbing through the package trim opening

Remove the retaining bolt

Remove the rear center safety belt retractor



Item	Description
1	Bolt Corflex (Pt of item 2)
2	Belt & Retractor Asy Rr Ctr

Installation

1. To install, reverse the removal procedure.

NOTE: Make sure to tighten all nuts and bolts to specification.

NOTE: Make sure the safety belt webbing is not twisted prior to installation.

NOTE: Make sure to align and install the safety belt retractor locating tab into the package tray panel before installing the bolt.

NOTE: Make sure all electrical connections for rear belt minder are fitted correctly

2. Check the active restraint system for correct operation.



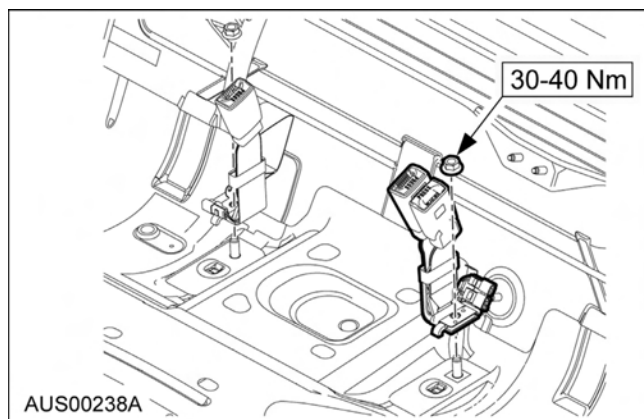
REMOVAL AND INSTALLATION (Continued)

Rear Centre Safety Belt Buckles

Removal

1. Remove the rear seat cushion. Refer to Section 501-10.
2. Remove the safety belt buckles.
 - Remove the nut
 - Disconnect the rear belt minder electrical connectors - where fitted to vehicle
 - Remove the rear center safety belt buckles

Sedan



Item	Description
1	Rear centre safety belt buckles
2	Nut M12

Installation

1. To install, reverse the removal procedure.
 - NOTE:** Make sure to tighten all nuts to specification.
 - NOTE:** Make sure the safety belt webbing is not twisted prior to installation.
 - NOTE:** Make sure the safety belt buckles are accessible after repositioning the seat.
 - NOTE:** Make sure all electrical connections for rear belt minder are fitted correctly

Safety Belt Buckle and Pretensioner

Removal

1. Disconnect the battery ground cable.

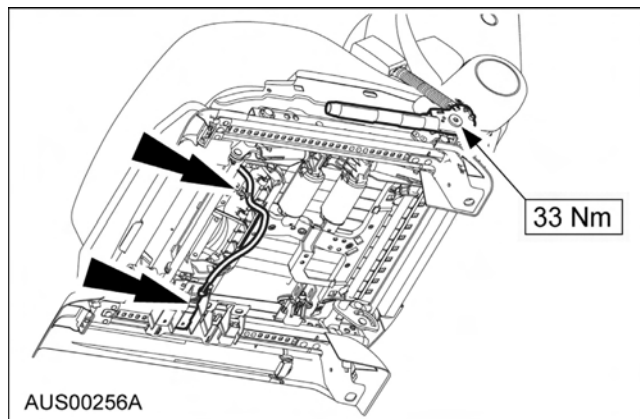
WARNING: Wait at least two minutes after disconnecting the battery ground cable, before disconnecting any supplemental restraint system electrical connectors. Failure to follow this warning could cause premature deployment and may result in personal injury.

2. Wait two minutes.
3. Remove the front seat. For additional information, refer to Section 501-10.



CAUTION: Note the position and routing of the wiring harness to aid assembly. An incorrectly routed harness may lead to the wires becoming damaged on the seat mechanism. Detach the seat wiring harness from the underside of the seat.

4. Detach the safety belt pretensioner wiring harness from the conduit.



5. Remove the safety belt pretensioner
 - Using the special tool, remove the bolt
 - Remove the safety belt buckle and pretensioner

Installation

1. To install, reverse the removal procedure.
 - NOTE:** Make sure to tighten all nuts and bolts to specification.
 - NOTE:** Make sure to align and install the anti-rotational slot of the safety belt buckle and pretensioner to the pin on the seat track before installing the bolt.
2. Deploy the safety belt buckle pretensioner assembly. For additional information, refer to Section 501-20b.

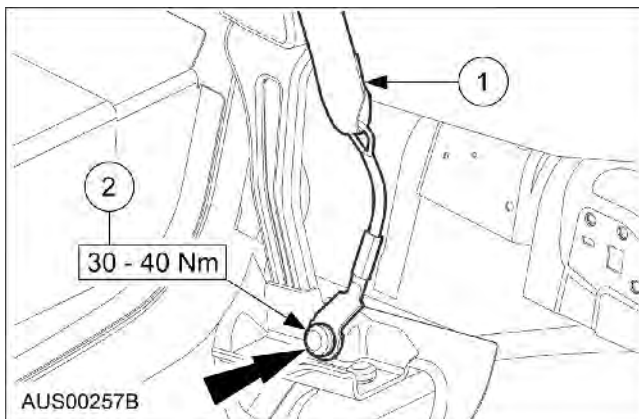


REMOVAL AND INSTALLATION (Continued)

Front Centre Seat Safety Belt Retractor — Ute

Removal

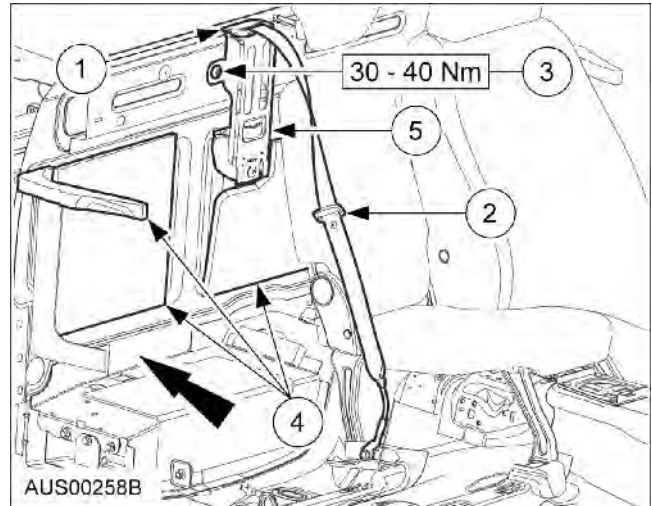
1. Remove the outboard seat bucket assembly from the vehicle. For additional information, refer to Section 501-10.
2. Remove the safety belt anchor
Remove the retaining bolt.
Remove the safety belt anchor from the front center seat leg.



Item	Description
1	Belt & Retractor Asy Frt Ctr
2	Bolt Corflex (part of item 1)

3. Remove the safety belt trim
Pry off the safety belt trim from the back panel trim.
4. Remove the back panel trim. For additional information, refer to Section 501-05.

5. Remove the centre safety belt retractor
Remove the retaining bolt(s).
Remove the center safety belt retractor assembly by lifting it up.



Item	Description
1	Bezel (part of item 5)
2	Belt Asy (part of item 5)
3	Cur Asy Bk Pnl Trim
4	Screw M10x1.5
5	Belt & Retractor Asy Frt Ctr

Installation

1. To install, reverse the removal procedure.
NOTE: Make sure to tighten all bolts to specification.
NOTE: Make sure the safety belt webbing is not twisted prior to installation.
2. Check the active restraint system for correct operation.

