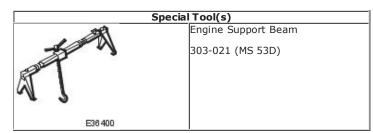
## Uni-Body, Subframe and Mounting System - Front Axle Crossmember Rear Bushing Removal and Installation

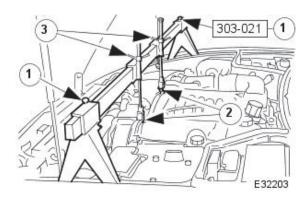


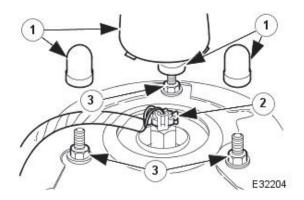
## Removal

1. CAUTION: Replacement of nuts and bolts: Various thread-locking devices are used on nuts and bolts throughout the vehicle. These devices restrict the number of times a nut or bolt can be used. See section 100-00 for information.

Position vehicle on a four-post lift.

- 2. Open the engine compartment to the service position.
- 3. Fit paintwork protection covers to fenders.
- 4. Disconnect battery ground cable. Refer to section 414-01.
- 5. Remove both engine covers.
  - Release retaining pegs.
  - Remove covers.





- 6. Support weight of engine.
  - 1. Position tool in RH and LH fender channels and tighten beam fixings.
  - 2. Engage hooks into engine front lifting eyes.
  - 3. Tighten hook adjustment nuts until the weight of engine is supported.
- 7. Position steering in the central position and remove ignition keys to lock steering.
- 8. Release both front shock absorber upper mountings from body.
  - 1. Remove covers.
  - 2. Vehicles fitted with adaptive damping : disconnect connector.
  - 3. Remove nuts.
  - Repeat procedure to release opposite-side shock absorber.
- ${\bf 9.}\ {\rm NOTE:}\ {\rm Guide}\ {\rm shock}\ {\rm absorber}\ {\rm upper}\ {\rm mounting}\ {\rm studs}\ {\rm through}\ {\rm body}\ {\rm when}\ {\rm raising}\ {\rm front}\ {\rm of}\ {\rm vehicle.}$

Raise front of vehicle and support on stands. Refer to section 100-02.

 10. Release lower steering column from pinion shaft.

- 1. Remove bolt.
- Disconnect steering column.

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**11.** Disconnect connector from steering rack transducer.

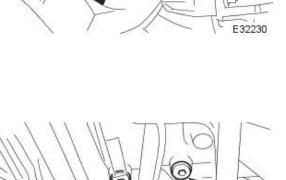
- **12.** Release front engine-mountings from crossbeam.
  - Remove bolt.
  - Repeat procedure to release opposite-side mounting.

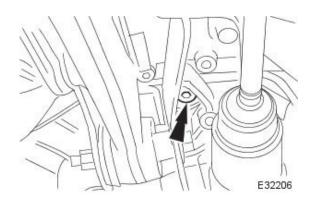


Using a suitable jack support weight of front crossbeam. **14.** NOTE: The bolt situated directly above the wishbone will remain captive.

Release rear mounting from crossbeam.

• Remove bolts.





**15.** Release crossbeam rear mountings from body.

- Remove center bolt.
- Repeat procedure to release opposite-side mounting from body.

**16.** CAUTION: Take care not to damage power steering hydraulic-pipes when lowering crossbeam.

- Lower crossbeam sufficiently to remove rear mounting.
- 17. Remove rear mounting.
- 18. Clean relevant parts.

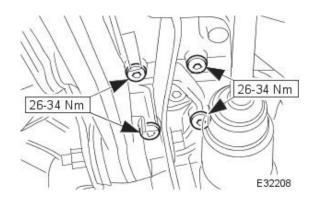
## Installation

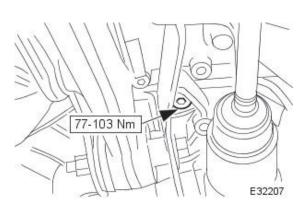
- 1. Apply Loctite 270 or 243 to the rear-mounting captive bolt.
- **2.** Position rear mounting to crossbeam.
- **3.** Secure rear mounting to crossbeam.
  - Align mounting.
  - Fit and tighten bolts.

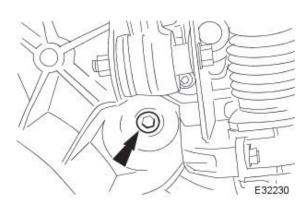
4. Raise crossbeam.

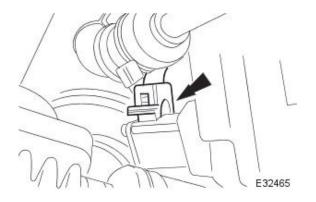
- $\ensuremath{\textbf{5.}}$  Secure crossbeam rear mountings to body.
  - Fit and tighten bolt.
  - Repeat procedure to secure opposite-side mounting to body.

- 6. Lower and remove jack from beneath crossbeam.
- 7. Fit front engine mounting bolts, but DO NOT tighten at this stage.
  - Repeat procedure on opposite-side mounting.

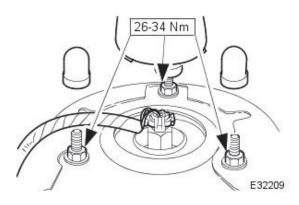


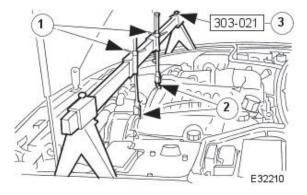






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8. Connect connector to steering rack transducer.

 $\ensuremath{\textbf{9.NOTE:}}$  Make sure steering wheel and road wheels are in the central position.

Connect steering column to pinion shaft.

- Align steering column to pinion shaft.
  - 1. Fit and tighten bolt.

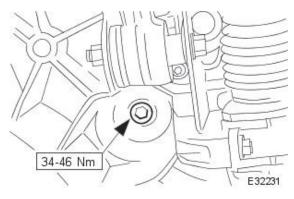
## ${\bf 10.}\ {\sf NOTE:}\ {\sf Guide shock absorber upper mountings into body apertures}\ when lowering vehicle.$

Remove stands and lower front of vehicle.

- **11.** Secure shock absorber upper mountings to body.
  - Fit and tighten nuts.
  - Vehicles fitted with adaptive damping: connect connector.
  - Fit covers.
  - Repeat procedure to secure opposite-side shock absorber.

12. Release weight of engine.

- 1. Loosen hook adjustment nuts.
- 2. Remove hooks from lifting eyes.
- 3. Remove special tool.



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**13.** Secure engine mountings to crossbeam.

- Tighten bolt.
- Repeat procedure to secure opposite-side mounting.

- 14. Fit both engine covers.
  - Position covers to engine.
  - Fit retaining pegs.

- **15.** Connect battery ground cable. Refer to section 414-01, Battery Connection Procedure.
- 16. Remove paintwork protection covers.