

2006-08 ENGINE

Engine and Gearbox Suspension - Repair Instructions - 325i, 325xi, 330i, 330xi, Z4

11 ENGINE SUSPENSION

22 11 001 REPLACING RIGHT ENGINE MOUNT (N51/N52)

Necessary preliminary tasks:

- Secure engine in installation position.
- Remove underbody protection.

Release screws (1) and remove engine mount.

Tightening torque 22 11 1AZ.

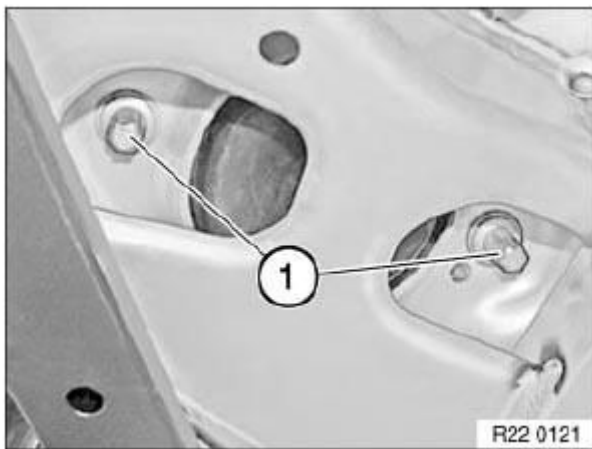


Fig. 1: Identifying Engine Mount
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Rubber section (1) of engine mount must point to middle of vehicle.

Engine mount designations:

Right engine mount

- Even component number

Left engine mount

- Odd component number

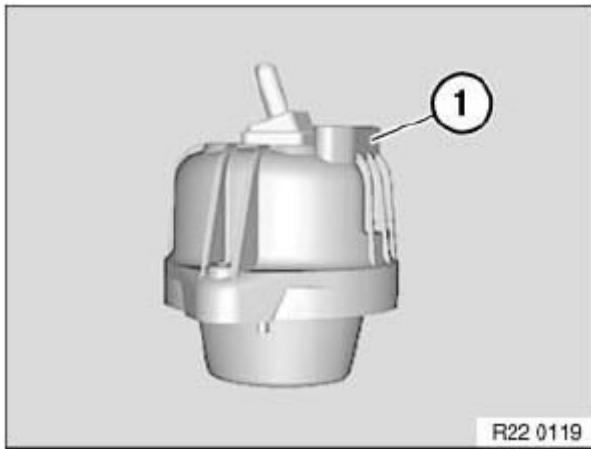


Fig. 2: Identifying Rubber Section Of Engine Mount
Courtesy of BMW OF NORTH AMERICA, INC.

22 11 011 REPLACING LEFT ENGINE MOUNT (N51/N52)

Necessary preliminary tasks:

- Secure engine in installation position.
- Remove underbody protection.

Remove stiffening strut (1) (E90/91).

Release screws (2) and remove engine mount.

Tightening torque 22 11 1AZ.

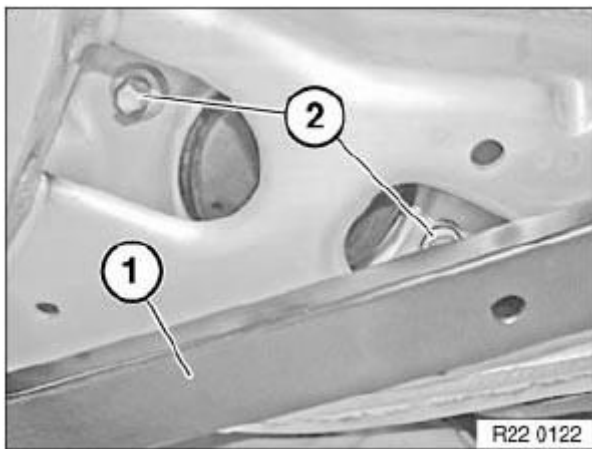


Fig. 3: Identifying Stiffening Strut And Screws

Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Rubber section (1) of engine mount must point to middle of vehicle.

Engine mount designations:

Right engine mount

- Even component number

Left engine mount

- Odd component number

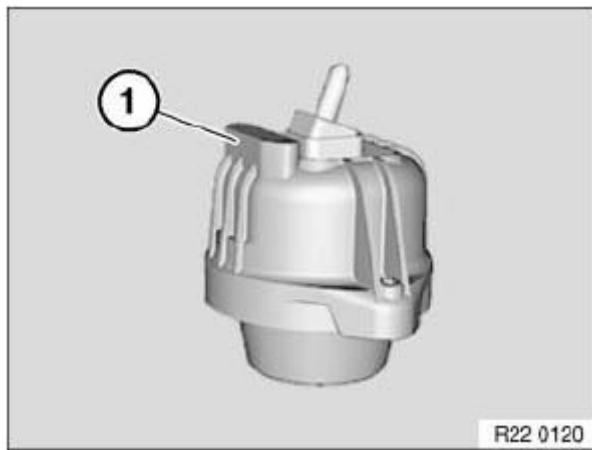


Fig. 4: Identifying Rubber Section Of Engine Mount
Courtesy of BMW OF NORTH AMERICA, INC.

22 11 100 REPLACING RIGHT ENGINE SUPPORT ARM (N51/N52)

Necessary preliminary tasks:

Remove right engine mount.

Unfasten screws.

Remove engine support arm from engine.

Installation:

Aluminium screws/bolts **must** be replaced.

Tightening torque 22 11 3AZ

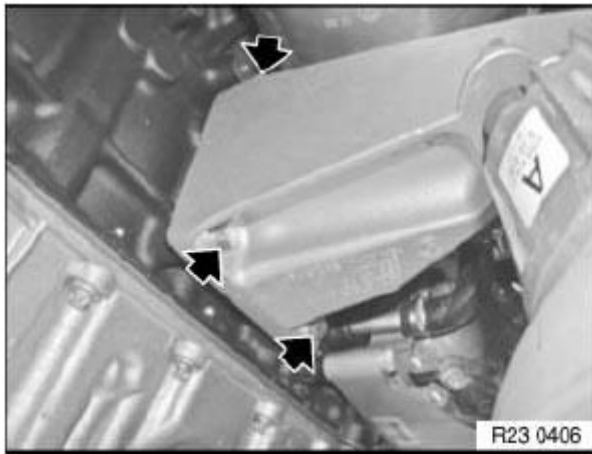


Fig. 5: Locating Engine Support Arm From Engine
Courtesy of BMW OF NORTH AMERICA, INC.

22 11 110 REPLACING LEFT ENGINE SUPPORT ARM (N51/N52)

Necessary preliminary tasks:

- Secure engine in installation position
- Remove intake filter housing
- Remove manifold support
- Remove stiffening strut
- Remove underbody protection at front and rear

Release grounding strap from engine support arm.

Release screw (1).

Release corrugated tube (2) from retainer.

Release screws (3).

Remove engine support arm.

Installation:

Aluminium screws/bolts **must** be replaced.

Tightening torque 22 11 3AZ

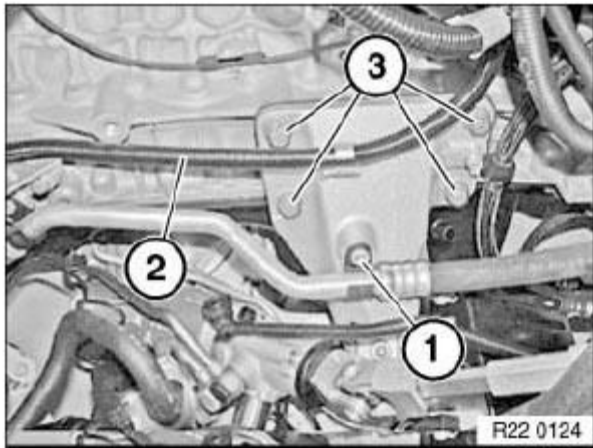


Fig. 6: Identifying Corrugated Tube From Retainer
Courtesy of BMW OF NORTH AMERICA, INC.

31 TRANSMISSION SUSPENSION

22 31 001 REPLACING RUBBER MOUNT FOR TRANSMISSION MOUNTING

Necessary preliminary tasks:

- Remove rear underbody protection.
- Support transmission with lifter.

Remove screws and nuts.

Remove transmission cross-member (1).

Remove rubber mount from transmission crossmember.

Tightening torque 23 71 1AZ/2AZ.

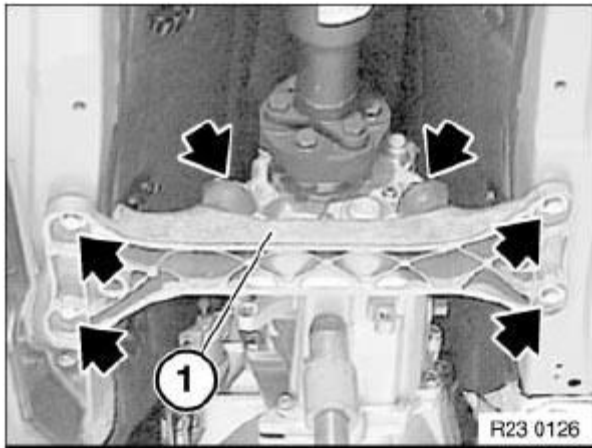


Fig. 7: Locating Transmission Cross-Member
Courtesy of BMW OF NORTH AMERICA, INC.

22 31 050 REPLACING CROSS-MEMBER FOR TRANSMISSION MOUNTING

NOTE: Operations are identical to Replacing rubber mount for transmission mounting.

22 32 001 REPLACING RUBBER MOUNT FOR TRANSMISSION MOUNTING

Necessary preliminary tasks:

- Remove rear underbody protection.
- Support transmission with lifter.

Unfasten screws (1) and nuts (2).

Remove transmission cross-member.

Remove rubber mount from transmission crossmember.

Tightening torque 24 71 1AZ/2AZ.

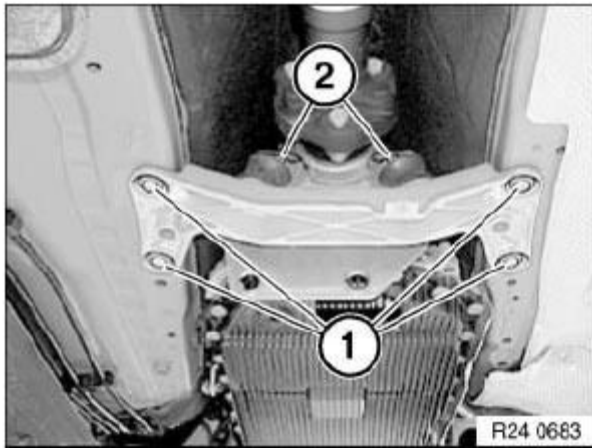


Fig. 8: Identifying Transmission Cross-Member Screw And Nut
Courtesy of BMW OF NORTH AMERICA, INC.

22 32 050 REPLACING CROSS-MEMBER FOR TRANSMISSION MOUNTING

Necessary preliminary tasks:

- Remove underbody protection
- Support transmission with lifter.

Unfasten screws (1) and nuts (2).

Remove transmission cross-member.

Tightening torque 24 71 1AZ/2AZ.

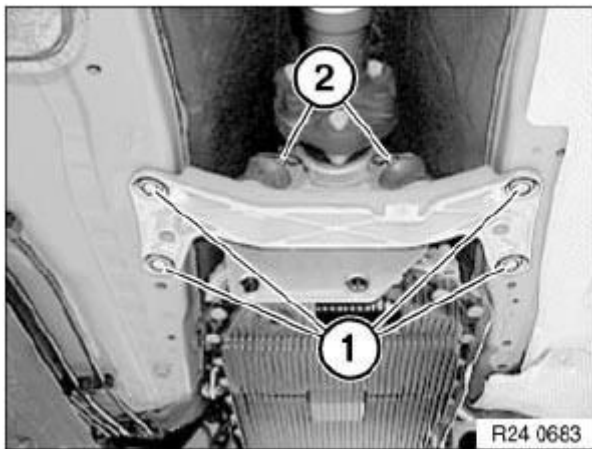


Fig. 9: Identifying Transmission Cross-Member Screw And Nut
Courtesy of BMW OF NORTH AMERICA, INC.

32 TRANSMISSION SUSPENSION

22 31 001 REPLACING RUBBER MOUNT FOR TRANSMISSION MOUNTING

Necessary preliminary tasks:

- Remove rear underbody protection.
- Support transmission with lifter.

Remove screws and nuts.

Remove transmission cross-member (1).

Remove rubber mount from transmission crossmember.

Tightening torque 23 71 1AZ/2AZ.

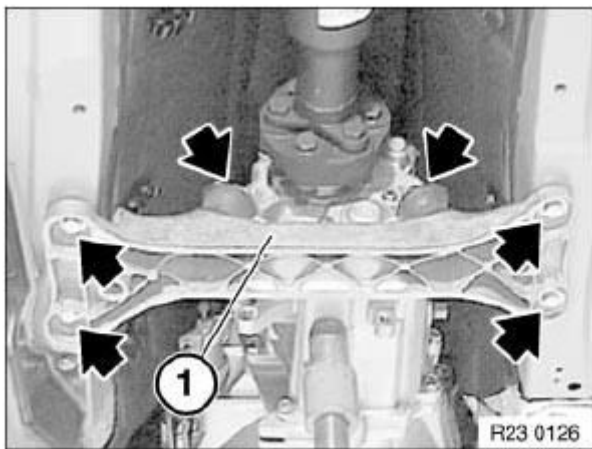


Fig. 10: Locating Transmission Cross-Member
Courtesy of BMW OF NORTH AMERICA, INC.

22 31 050 REPLACING CROSS-MEMBER FOR TRANSMISSION MOUNTING

NOTE: Operations are identical to Replacing rubber mount for transmission mounting.

22 32 001 REPLACING RUBBER MOUNT FOR TRANSMISSION MOUNTING

Necessary preliminary tasks:

- Remove rear underbody protection.
- Support transmission with lifter.

Unfasten screws (1) and nuts (2).

Remove transmission cross-member.

Remove rubber mount from transmission crossmember.

Tightening torque 24 71 1AZ/2AZ.

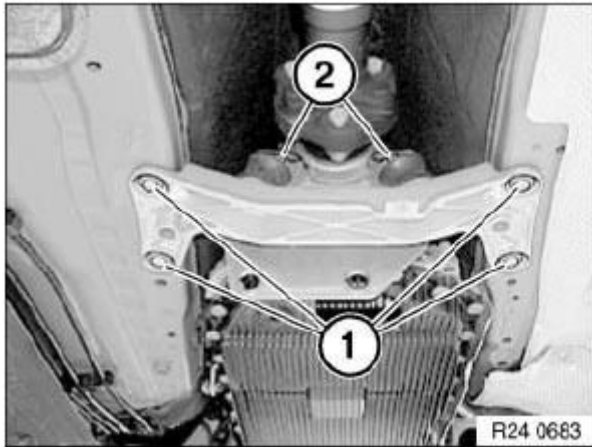


Fig. 11: Identifying Transmission Cross-Member Screw And Nut
Courtesy of BMW OF NORTH AMERICA, INC.

22 32 050 REPLACING CROSS-MEMBER FOR TRANSMISSION MOUNTING

Necessary preliminary tasks:

- Remove underbody protection
- Support transmission with lifter.

Unfasten screws (1) and nuts (2).

Remove transmission cross-member.

Tightening torque 24 71 1AZ/2AZ.