

2001-2003 ENGINE

Engine & Transmission Mounts - Repair Instructions - X5 (3.0i) M54

ENGINE SUSPENSION

22 11 001 REPLACING RIGHT ENGINE MOUNT (M54)

Remove right engine support arm. Refer to **22 11 100 REPLACING RIGHT ENGINE SUPPORT ARM (M54)** .

Remove engine mount from front axle support.

22 11 011 REPLACING LEFT ENGINE MOUNT (M54)

Remove left engine support arm. Refer to **22 11 100 REPLACING RIGHT ENGINE SUPPORT ARM (M54)** .

Remove engine mount from front axle support.

22 11 100 REPLACING RIGHT ENGINE SUPPORT ARM (M54)

NOTE: For Special Tool identification, see **SPECIAL TOOLS - X5 (3.0i)** .

Special Tools Required:

- 00 0 200

Remove air duct for intake air.

Release engine mounts on left and right from above.

Raise engine with special tool 00 0 200 , described in **11 13 000 REMOVING AND INSTALLING/REPLACING OIL SUMP (M54)** .

Remove engine splash guard.

Detach grounding cable from support arm.

Detach engine support arm from engine block.

Installation:

Observe different thread length.

Install longer screw at top center.

22 11 110 REPLACING LEFT ENGINE SUPPORT ARM (M54)

NOTE: For Special Tool identification, see **SPECIAL TOOLS - X5 (3.0i)** .

Special Tools Required:

- 00 0 200

Remove intake filter housing. Refer to **13 71 000 REMOVING AND INSTALLING INTAKE FILTER HOUSING (M54)** .

Remove air duct for intake air.

Release engine mounts on left and right from above.

Raise engine with special tool 00 0 200 , described in **11 13 000 REMOVING AND INSTALLING/REPLACING OIL SUMP (M54)** .

Remove oil dipstick guide tube.

Remove engine splash guard.

Remove left output shaft.

Remove air duct from alternator.

Detach engine support arm from engine block.

Installation:

Observe different thread length.

Install longer screw at top center.

TRANSMISSION SUSPENSION (AUTO.)**22 32 001 REPLACING RUBBER MOUNT FOR TRANSMISSION MOUNTING**

NOTE: For Special Tool identification, see **SPECIAL TOOLS - X5 (3.0i)** .

Special Tools Required:

- 22 1 011
- 22 1 012
- 22 1 013

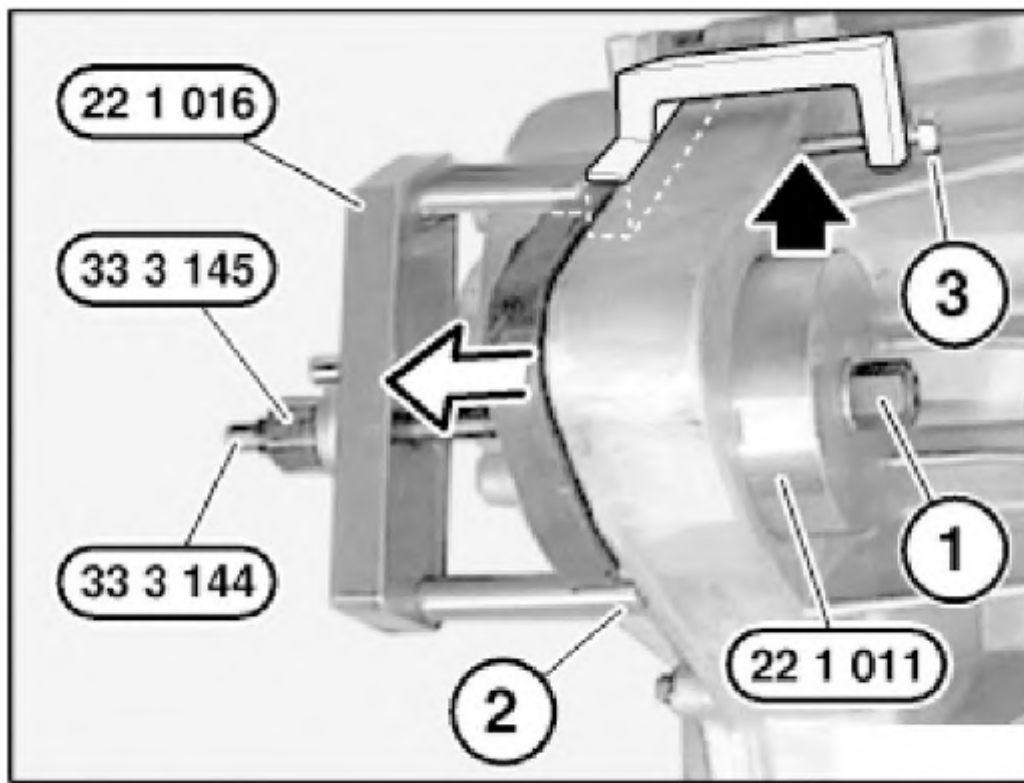
- 22 1 016
- 33 3 144

Remove cross-member for transmission mounting, refer to **22 32 050 REPLACING CROSS-MEMBER FOR TRANSMISSION MOUNTING** .

Position special tool 22 1 016 on opening (2) and twist in screw (3) hand-tight against housing.

Pull out rubber mount with special tools 22 1 011/33 3 144 and nut (1).

Nut (1) = nut M12x1.5 of rubber mount screw M12x1.5x220.



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Fig. 1: Removing Rubber Mount With Special Tools
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Arrow on rubber mount must point to arrow on housing.

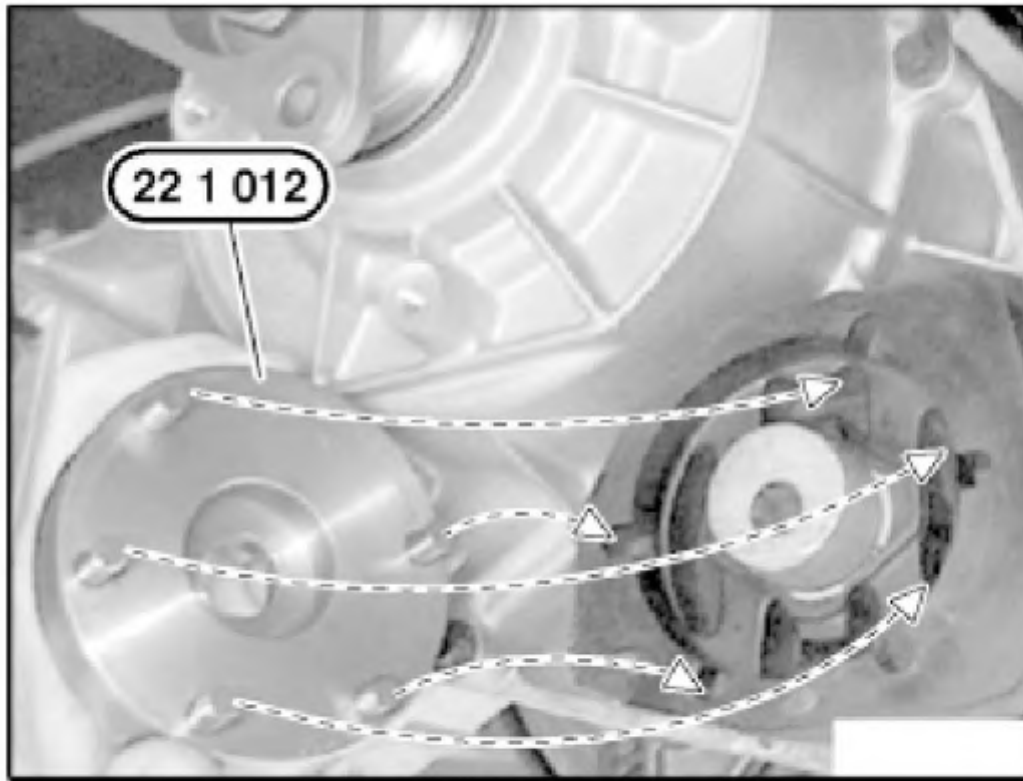
Coat housing bore and rubber mount with Circolight.



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Fig. 2: Identifying Arrow Mark On Housing And Rubber Mount
Courtesy of BMW OF NORTH AMERICA, INC.

Insert special tool 22 1 012 with pin into openings in rubber mount.

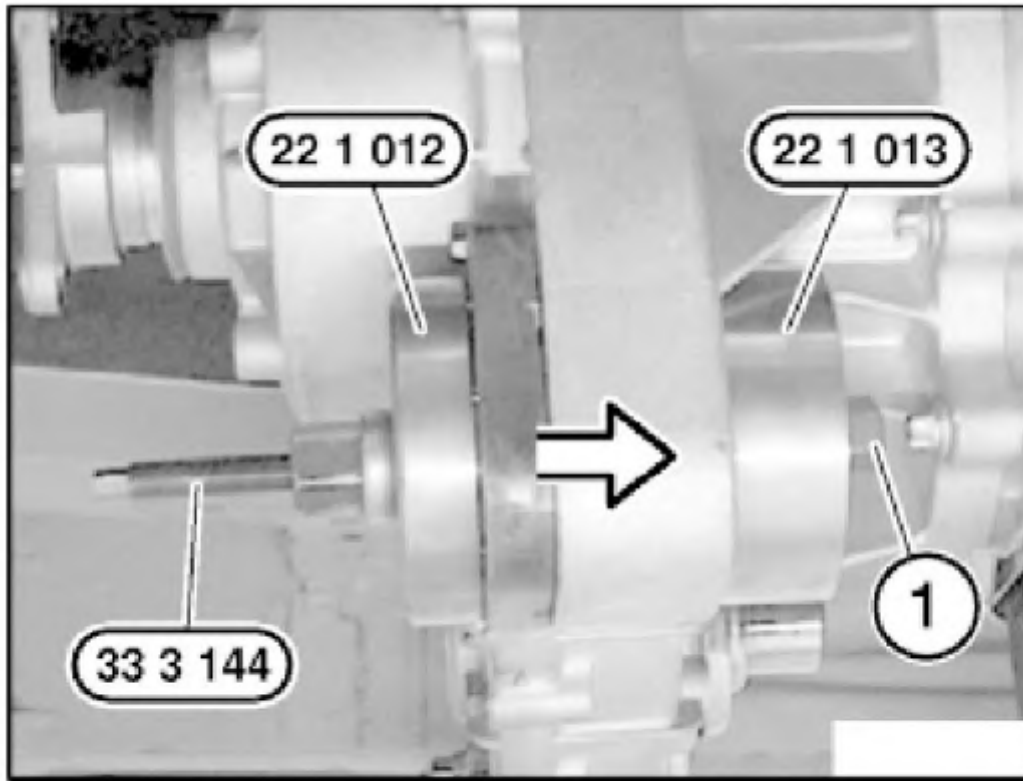


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Fig. 3: Inserting Special Tool With Pin Into Openings In Rubber Mount
Courtesy of BMW OF NORTH AMERICA, INC.

Pull in rubber mount with special tools 22 1 012/22 1 012/22 1 013 and 33 3 144.

From rubber mount screw M12x1.5x220, use nut (1) M12x1.5.



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Fig. 4: Removing Rubber Mount With Special Tools
Courtesy of BMW OF NORTH AMERICA, INC.

22 32 050 REPLACING CROSS-MEMBER FOR TRANSMISSION MOUNTING

Remove exhaust system. Refer to **18 00 020 REMOVING AND INSTALLING COMPLETE EXHAUST SYSTEM (M62, M54)** .

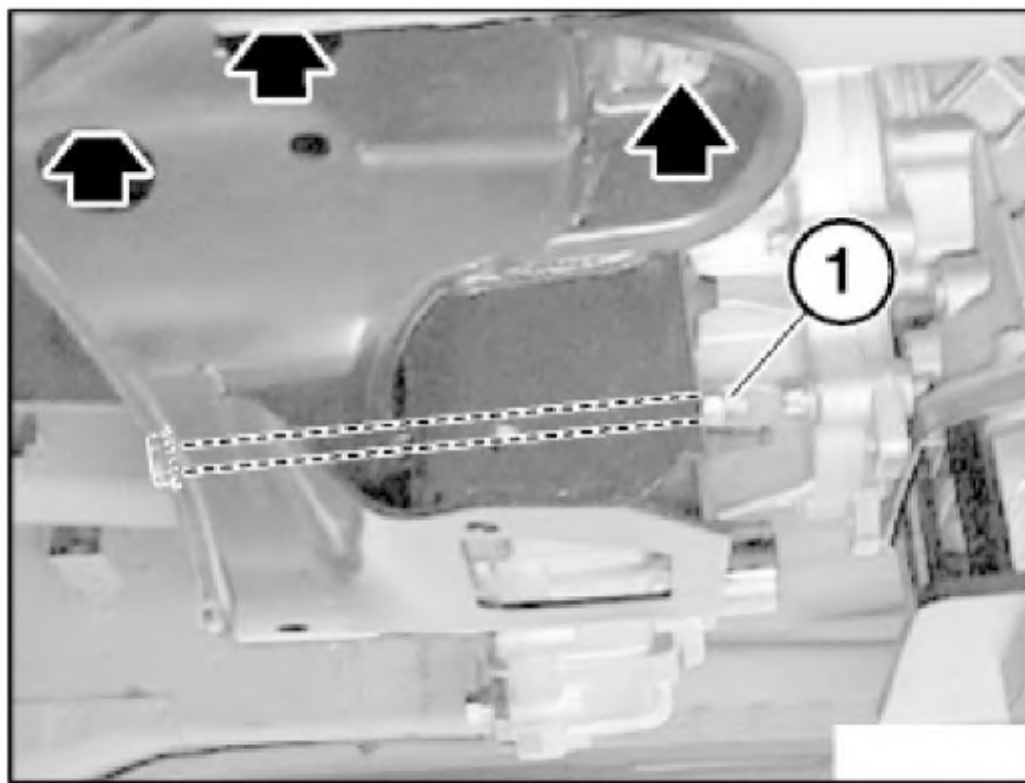
Remove heat shield at front left and right.

Support transmission with hydraulic lifter.

Release nut (1) and remove screw.

Unscrew left and right bolts.

Remove cross-member.



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Fig. 5: Removing Transmission Mounting Cross-Member
Courtesy of BMW OF NORTH AMERICA, INC.