

2007-08 ENGINE

Engine and Gearbox Suspension - Repair Instructions - X5 (V8 N62TU)

11 ENGINE SUSPENSION

22 11 001 REPLACING RIGHT ENGINE MOUNT (N62TU)

Necessary preliminary tasks:

- Disconnect **Battery** . See 12 00... INSTRUCTIONS FOR DISCONNECTING AND CONNECTING BATTERY .
- Secure engine in installation posit
- Remove **reinforcement plate** . See 31 10 010 REMOVING AND INSTALLING/REPLACING REINFORCEMENT PLATE .
- Drain off engine oil
- Remove heat shields.
- Remove **Starter Motor** . See 41 STARTER WITH MOUNTING .
- Remove **Engine Support Arm**

Release screws (1) and remove engine mount (2). Tightening torque 22 11 1AZ, see EXHAUST SYSTEM - TIGHTENING TORQUES .

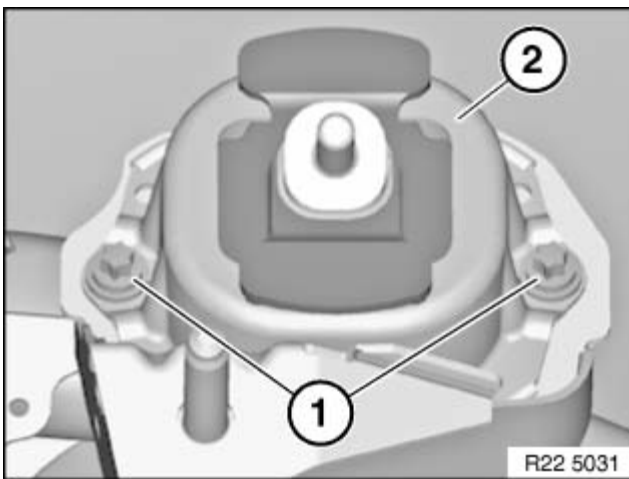


Fig. 1: Locating Engine Mount Nuts

Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Holes (1) in engine mount must point to middle of vehicle.

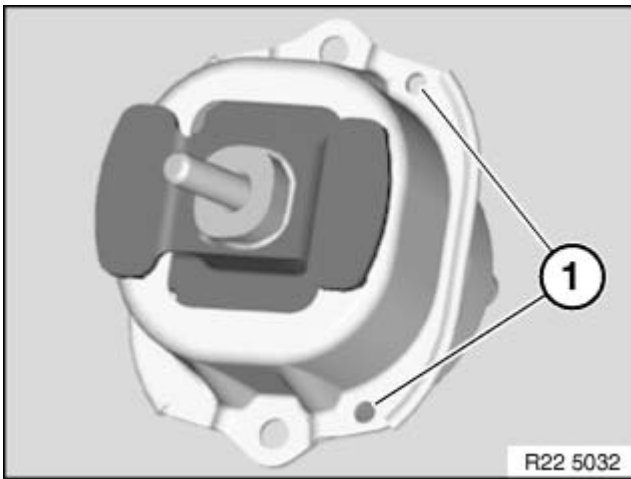


Fig. 2: Holes Must Point To Middle Of Vehicle
Courtesy of BMW OF NORTH AMERICA, INC.

22 11 011 REPLACING LEFT ENGINE MOUNT (N62TU)

Necessary preliminary tasks:

- Disconnect **battery** . See 12 00... INSTRUCTIONS FOR DISCONNECTING AND CONNECTING BATTERY .
- Secure engine in installation position.
- Remove **reinforcement plate** . See 31 10 010 REMOVING AND INSTALLING/REPLACING REINFORCEMENT PLATE .
- Remove **engine support arm**.

Release screws (1) and remove engine mount (2). Tightening torque 22 11 1AZ, see EXHAUST SYSTEM - TIGHTENING TORQUES .

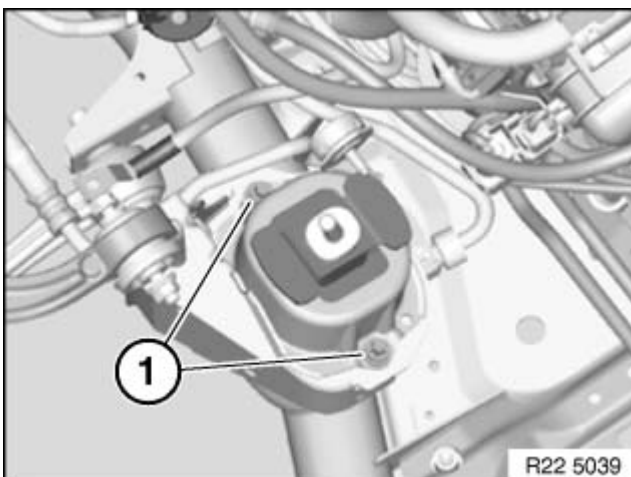


Fig. 3: Releasing Screws And Removing Engine Mount
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Holes (1) in engine mount must point to middle of vehicle. See **Fig. 2**.

22 11 100 REPLACING RIGHT ENGINE SUPPORT ARM (N62TU)

Necessary preliminary tasks:

- Disconnect **battery** . See **12 00... INSTRUCTIONS FOR DISCONNECTING AND CONNECTING BATTERY** .
- Secure engine in installation position
- Remove **reinforcement plate** . See **31 10 010 REMOVING AND INSTALLING/REPLACING REINFORCEMENT PLATE** .
- Drain off engine oil
- Remove heat shields
- Remove oil dipstick guide tube
- Remove **starter** motor. See **41 STARTER WITH MOUNTING** .
- Remove right steering cover.

Release screws and engine support arm.

Tightening torque 22 11 3AZ, see **EXHAUST SYSTEM - TIGHTENING TORQUES** .

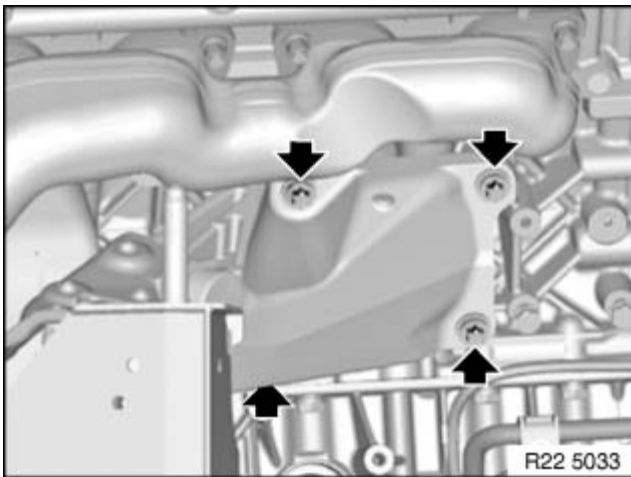


Fig. 4: Removing Engine Support Arm
Courtesy of BMW OF NORTH AMERICA, INC.

22 11 110 REPLACING LEFT ENGINE SUPPORT ARM (N62TU)

- Disconnect **battery** . See **12 00... INSTRUCTIONS FOR DISCONNECTING AND CONNECTING BATTERY** .
- Secure engine in installation position

- Remove **reinforcement plate** . See **31 10 010 REMOVING AND INSTALLING/REPLACING REINFORCEMENT PLATE** .
- Drain off engine oil
- Remove heat shields
- Remove **front differential** . See **31 50 001 REMOVING AND INSTALLING/REPLACING FRONT DIFFERENTIAL** .

Release screws (1) and (2) and remove engine support arm. Tightening torque 22 11 3AZ, see **EXHAUST SYSTEM - TIGHTENING TORQUES** .

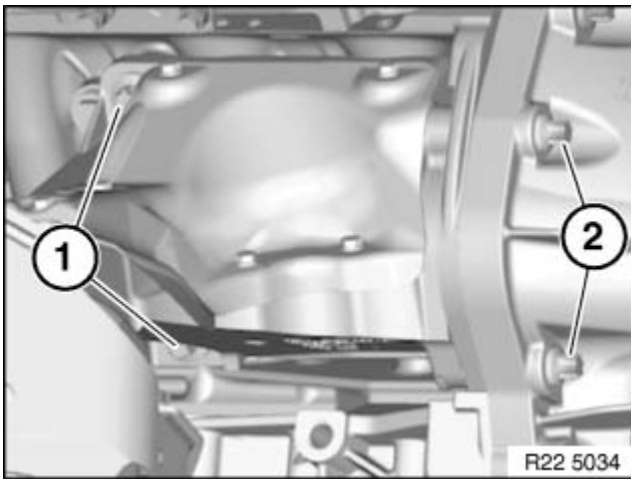


Fig. 5: Removing Engine Support Arm
Courtesy of BMW OF NORTH AMERICA, INC.

31 TRANSMISSION SUSPENSION

22 32 001 REPLACING RUBBER MOUNT FOR TRANSMISSION MOUNTING

Special Tools Required:

- 22 1 016
- 22 1 017
- 22 1 101
- 22 1 102
- 22 1 103
- 33 4 465

NOTE: See **ENGINE AND GEARBOX SUSPENSION - SPECIAL TOOLS** and **REAR AXLE - SPECIAL TOOLS** .

Necessary preliminary tasks:

- Remove crossmember for transmission mount.

Place special tool 22 1 016 on opening (1) and insert screw (2) until hand-tight against housing. Pull out rubber mount with special tools 22 1 101 / 33 4 465 and nut (22 1 017).

NOTE: See ENGINE AND GEARBOX SUSPENSION - SPECIAL TOOLS .

Installation : Arrow on rubber mount must point to arrow on housing. Coat housing bore and rubber mount with Circolight.

Insert special tool 22 1 102 with pins into openings of rubber mount.

Install rubber mount with special tools 22 1 102 / 22 1 103 / 33 4 465 and 22 1 017.

NOTE: See ENGINE AND GEARBOX SUSPENSION - SPECIAL TOOLS .

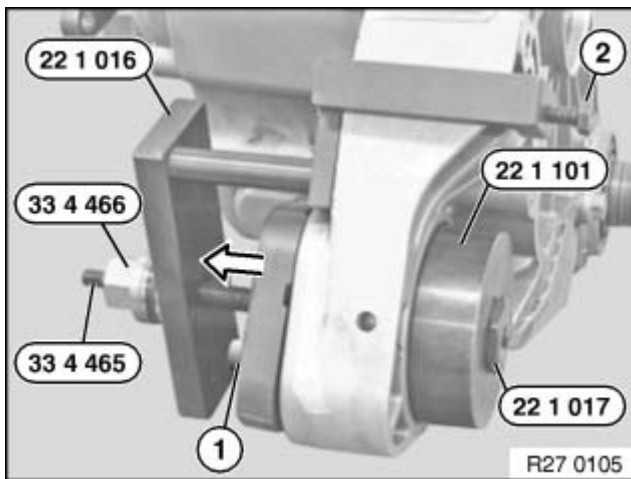


Fig. 6: Pulling Out Rubber Mount With Special Tools
Courtesy of BMW OF NORTH AMERICA, INC.

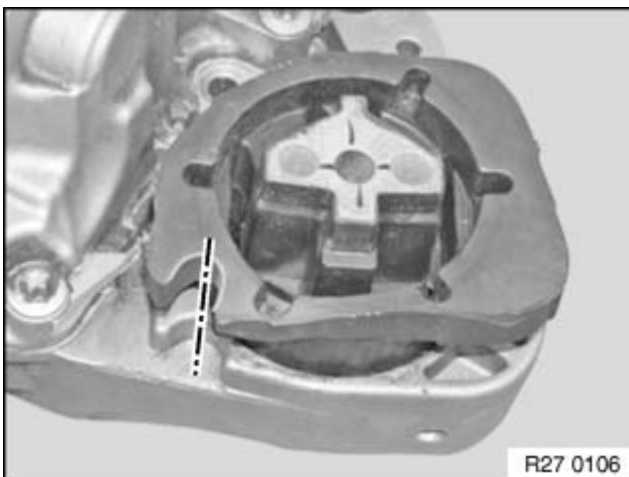


Fig. 7: Arrow On Rubber Mount Must Point To Arrow On Housing
 Courtesy of BMW OF NORTH AMERICA, INC.

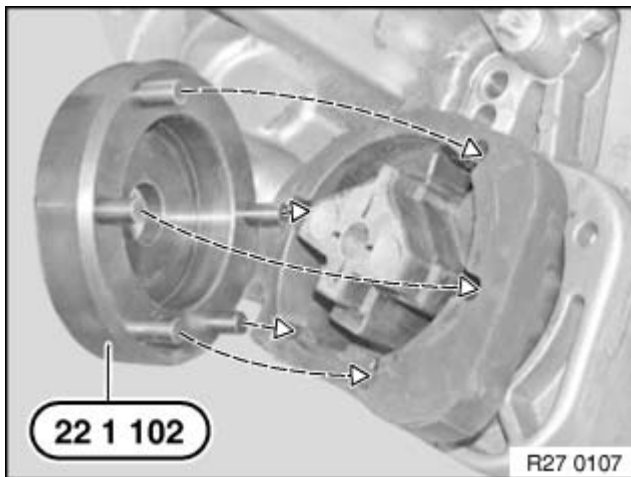


Fig. 8: Insert Special Tool 22 1 102 With Pins Into Openings Of Rubber Mount
 Courtesy of BMW OF NORTH AMERICA, INC.

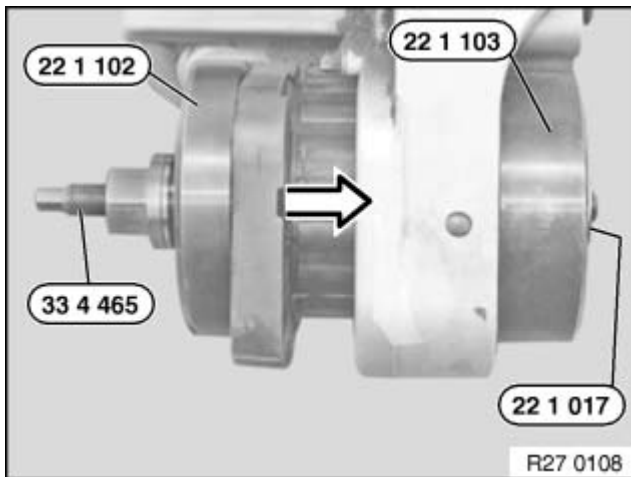


Fig. 9: Installing Rubber Mount With Special Tools 22 1 102, 22 1 103, 33 4 465, 22 1 017
 Courtesy of BMW OF NORTH AMERICA, INC.

22 32 050 REPLACING CROSS-MEMBER FOR TRANSMISSION MOUNTING

Special Tools Required:

- 00 2 030
- 23 0 132
- 23 4 050 See **Fig. 10**.

Necessary preliminary tasks:

- Remove underbody protection.
- Remove heat shields.
- Remove exhaust system. See **EXHAUST - REPAIR PROCEDURES - X5 (V8)** .

Supporting Transmission : Support with special tools 23 4 050, 23 0 132 and 00 2 030. Secure transmission with tensioning strap (1).

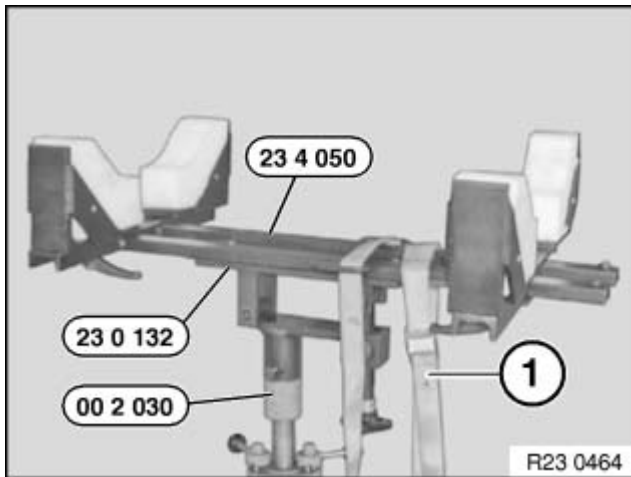


Fig. 10: Supporting Transmission

Courtesy of BMW OF NORTH AMERICA, INC.

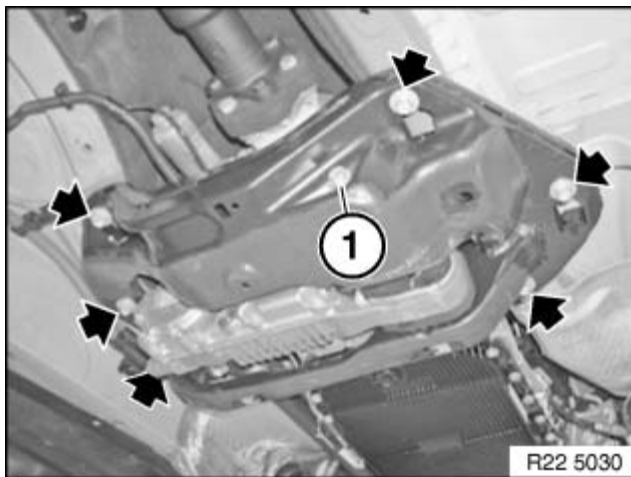


Fig. 11: Removing Crossmember

Courtesy of BMW OF NORTH AMERICA, INC.

Release screws. Tightening torque 22 32 4AZ, see **EXHAUST SYSTEM - TIGHTENING TORQUES** .
Release screw (1). Tightening torque 22 32 5AZ, see **EXHAUST SYSTEM - TIGHTENING TORQUES** .
Remove cross-member.