

2007-08 ENGINE

Engine and Gearbox Suspension - Repair Instructions - X5 (6-Cyl.)

11 ENGINE SUSPENSION**22 11 001 REPLACING RIGHT ENGINE MOUNT (N52K)**

Necessary preliminary tasks:

- Secure engine. Refer to **11 00 670 SECURING ENGINE IN INSTALLATION POSITION (N62)** in installation position
- Remove reinforcement plate. Refer to **31 10 010 REMOVING AND INSTALLING/REPLACING REINFORCEMENT PLATE**
- Remove heat shields.
- Remove engine support arm. Refer to **22 11 100 Replacing Right Engine Support Arm (N52K)**.

Release screws (1) and remove engine mount (2).

Tightening torque 22 11 1AZ. Refer to **22 11 ENGINE SUSPENSION** .

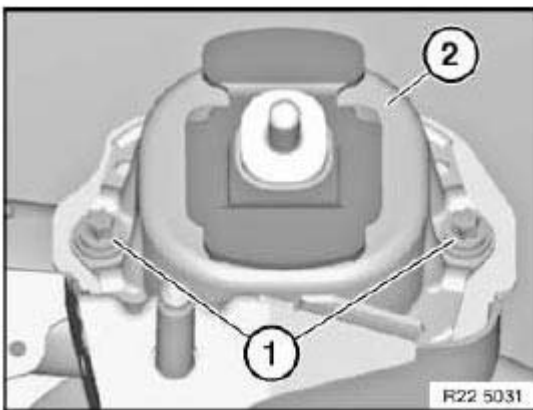


Fig. 1: Identifying Screws And Engine Mount
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

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

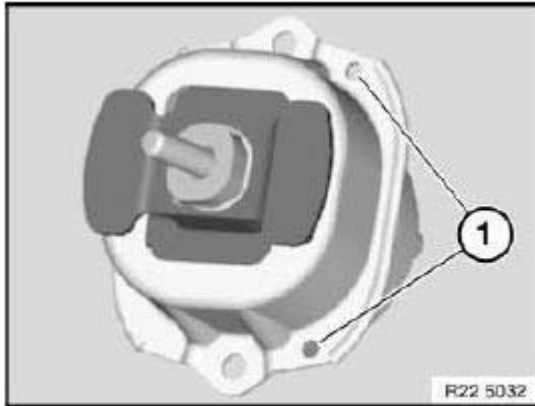


Fig. 2: Identifying Holes

Courtesy of BMW OF NORTH AMERICA, INC.

22 11 011 REPLACING LEFT ENGINE MOUNT (N52K)

Necessary preliminary tasks:

- Secure engine. Refer to **11 00 670 SECURING ENGINE IN INSTALLATION POSITION (N62)** in installation position
- Remove reinforcement plate. Refer to **31 10 010 REMOVING AND INSTALLING/REPLACING REINFORCEMENT PLATE**
- Remove engine support arm. Refer to **22 11 100 Replacing Right Engine Support Arm (N52K)**.

Release screws (1) and remove engine mount (2).

Tightening torque 22 11 1AZ. Refer to **22 11 ENGINE SUSPENSION** .

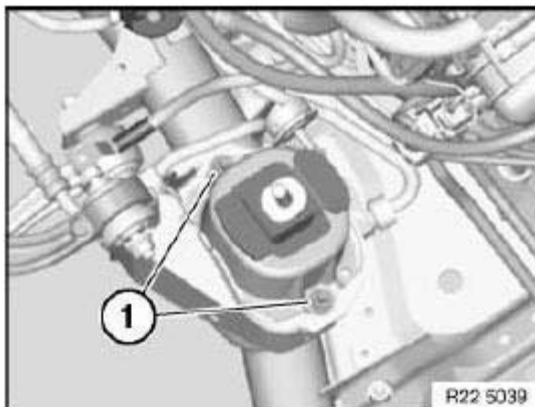


Fig. 3: Identifying Screws And Engine Mount

Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

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

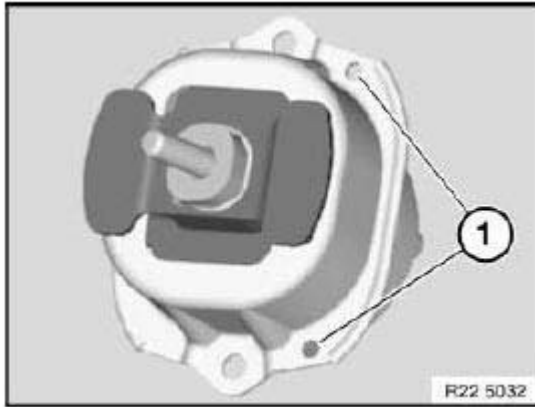


Fig. 4: Identifying Holes

Courtesy of BMW OF NORTH AMERICA, INC.

22 11 100 REPLACING RIGHT ENGINE SUPPORT ARM (N52K)

Necessary preliminary tasks:

- Secure engine. Refer to **11 00 670 SECURING ENGINE IN INSTALLATION POSITION (N62)** in installation position
- Remove reinforcement plate. Refer to **31 10 010 REMOVING AND INSTALLING/REPLACING REINFORCEMENT PLATE**
- Remove heat shields

Release screws and engine support arm.

Tightening torque 22 11 3AZ. Refer to **22 11 ENGINE SUSPENSION** .

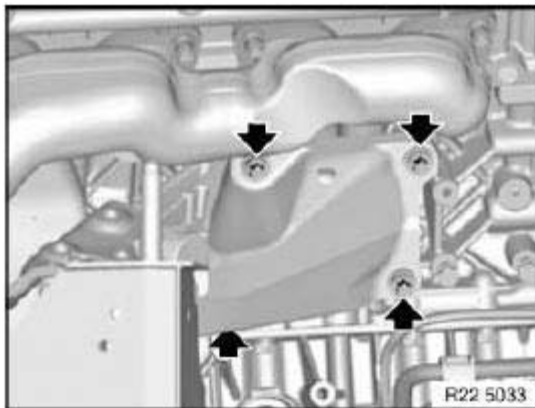


Fig. 5: Locating Screws And Engine Support Arm

Courtesy of BMW OF NORTH AMERICA, INC.

22 11 110 REPLACING LEFT ENGINE SUPPORT ARM (N52K)

Necessary preliminary tasks:

- Secure engine **11 00 670 SECURING ENGINE IN INSTALLATION POSITION (N62)** . Refer to in installation position
- Remove reinforcement plate. Refer to **31 10 010 REMOVING AND INSTALLING/REPLACING REINFORCEMENT PLATE**
- Remove upper section of microfilter housing. Refer to **64 31 081 REMOVING AND INSTALLING/REPLACING MICROFILTER HOUSING**
- Remove heat shields
- Remove manifold.
- Remove air ducts

Release screw (1).

Release bracket (2) with oil line.

Release screws and engine support arm.

Tightening torque 22 11 3AZ. Refer to **22 11 ENGINE SUSPENSION** .

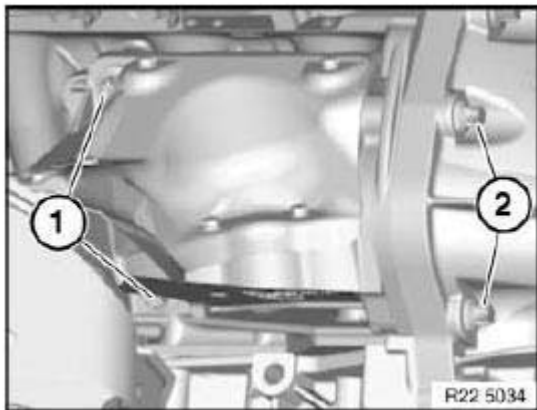


Fig. 6: Identifying Screws And Engine Support Arm
Courtesy of BMW OF NORTH AMERICA, INC.

32 TRANSMISSION SUSPENSION**22 32 001 REPLACING RUBBER MOUNT FOR TRANSMISSION MOUNTING**

Special Tools Required:

- 22 1 016 **22 1 010 SET OF TOOLS**
- 22 1 017 **22 1 010 SET OF TOOLS**

- 22 1 101 **22 1 100 FIXTURE**
- 22 1 102 **22 1 100 FIXTURE**
- 22 1 103 **22 1 100 FIXTURE**
- 33 4 465 **33 4 460 SET OF TOOLS**

Necessary preliminary tasks:

- Remove cross-member. Refer to for transmission mounting **22 32 050 Replacing Cross-Member For Transmission Mounting**

Place special tool 22 1 016. Refer to **22 1 010 SET OF TOOLS** 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. Refer to **22 1 010 SET OF TOOLS** and nut (22 1 017) **22 1 010 SET OF TOOLS**.

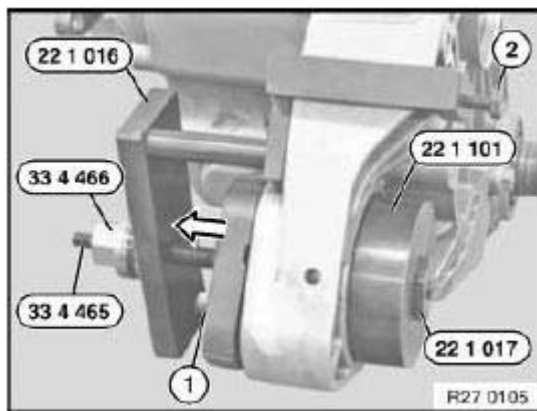


Fig. 7: Identifying Rubber Mount With Special Tools (22 1 101, 33 4 465)
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Arrow on rubber mount must point to arrow on housing.

Coat housing bore and rubber mount with Circolight, refer to BMW Parts Service.

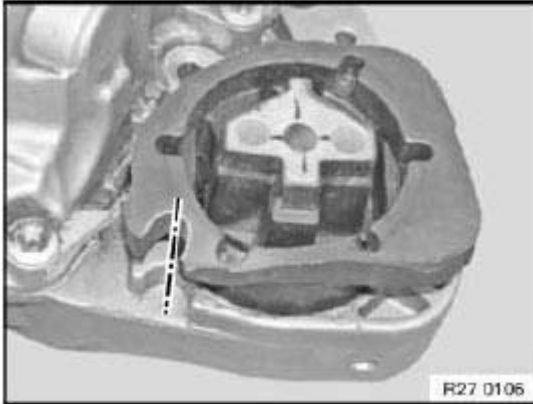


Fig. 8: Identifying Rubber Mount And Housing Bore Center Line
Courtesy of BMW OF NORTH AMERICA, INC.

Insert special tool 22 1 102 with pins into openings of rubber mount. Refer to **22 1 010 SET OF TOOLS**

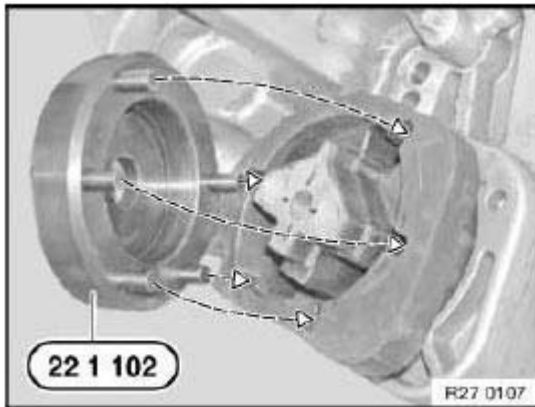


Fig. 9: Identifying Special Tool (22 1 102)
Courtesy of BMW OF NORTH AMERICA, INC.

Install rubber mount with special tools 22 1 102/22 1 103/33 4 465 and 22 1 017. Refer to **22 1 010 SET OF TOOLS** .

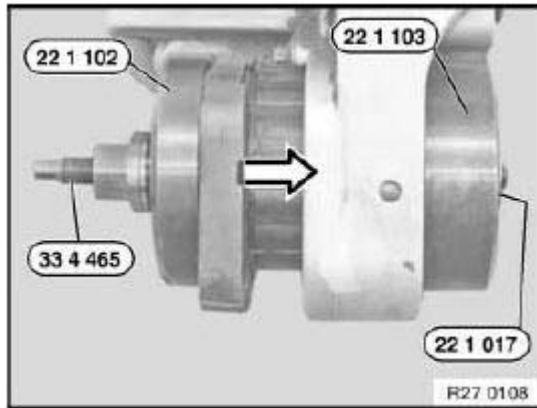


Fig. 10: Identifying Rubber Mount With Special Tools (22 1 102, 22 1 103, 33 4 465)
Courtesy of BMW OF NORTH AMERICA, INC.

22 32 050 REPLACING CROSS-MEMBER FOR TRANSMISSION MOUNTING

Special Tools Required:

- 00 2 030 **00 2 030 UNIVERSAL HYDRO-LIFTER BASIC UNIT**
- 23 0 132**23 TRANSMISSION DESIGNATIONS**
- 23 4 050**23 .. UNIVERSAL TRANSMISSION BRACKET**

Necessary preliminary tasks:

- Remove underbody protection**51 47 491 REMOVING AND INSTALLING/REPLACING REAR UNDERBODY PROTECTION**
- Remove heat shields
- Remove exhaust system**18 00 020 REMOVING AND INSTALLING COMPLETE EXHAUST SYSTEM (N62TU) .**

Supporting Transmission:

Support with special tools 23 4 050, 23 0 132 and 00 2 030 **00 2 030 UNIVERSAL HYDRO-LIFTER BASIC UNIT** .

Secure transmission with tensioning strap (1).

Tasks are described in **TRANSMISSION BRACKET** .

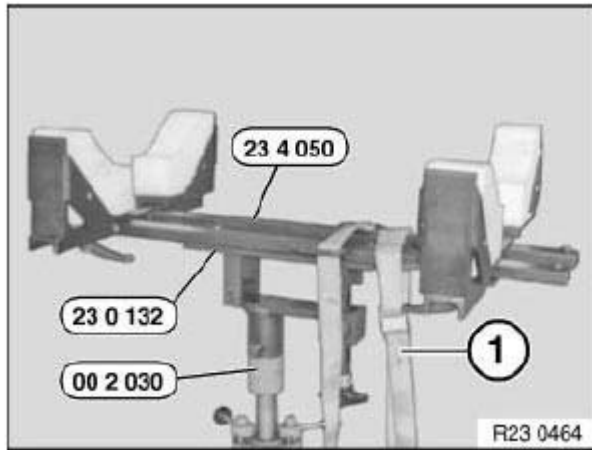


Fig. 11: Identifying Special Tools (23 4 050, 23 0 132) And (00 2 030)
Courtesy of BMW OF NORTH AMERICA, INC.

Release screws.

Tightening torque 22 32 4AZ**22 32 TRANSMISSION MOUNTS** .

Release screw (1).

Tightening torque 22 32 5AZ**22 32 TRANSMISSION MOUNTS** .

Remove cross-member.

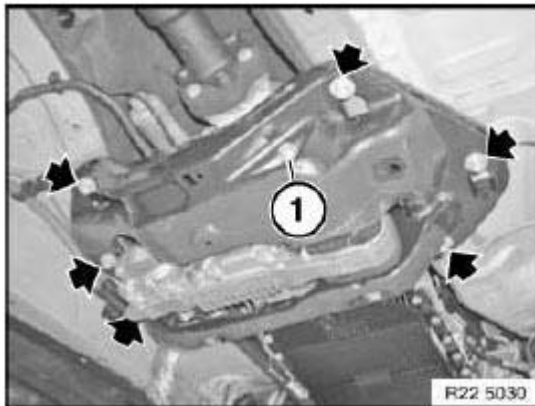


Fig. 12: Identifying Screw
Courtesy of BMW OF NORTH AMERICA, INC.