



BAVARIAN AUTOSPORT

Control Arm Bushing Installation Instructions

SAFETY WARNING: Please be advised that the bumper jack supplied with your vehicle is for emergency use only. We strongly recommend the use of jack stands in conjunction with a floor jack to prevent any accident that might occur with the dropping of the vehicle. We also recommend the use of safety goggles while working on your vehicle.

IMPORTANT: Control arm bushing installation requires the Control Arm Bushing Tool (Part# W312130) or a hydraulic press (typically available at a local shop or auto parts supply store.)

5 Series

82 thru 03

6 Series

83 thru 89

7 Series

88 thru 01

PART NUMBERS:

ASCB1 (Performance Control Arm Bushing)

ASCB6 (Urethane Control Arm Bushing)

ASCB2 (Performance Control Arm Bushing)

ASCB7 (Urethane Control Arm Bushing)

ASCB5 (Urethane Control Arm Bushing)

ASCB8 (Urethane Control Arm Bushing)

INSTALLATION ASSUMPTIONS:

These instructions will assume that the installer is either familiar with the procedures for replacing the standard BMW control arm bushings OR has access to the applicable repair manuals and an appropriate level of experience to perform this task. Repair manuals for the above listed vehicles are available from Bavarian Autosport.

PROCEDURE:

1. Raise front of vehicle and support on jack stands.
2. Locate upper control arm (or thrust arm). This arm angles back from the strut to the frame at approximately a 45° angle (arm angles forward on 6 cylinder 5 series 97 thru 03).
3. Remove the lock nut or cotter pin and nut which secures the ball joint to the strut assembly. The ball joint is located at the outer end of the control arm (See figure 1 on next page).

NOTE: Some models may require steering arm or strut cartridge removal in order to access the ball joint.

4. Release the ball joint tapered pin from the strut by hitting the side of the strut housing where the pin goes through. Use a heavy (2 lb. or more) ball peen or sledge hammer. It may help to apply upward pressure on the arm at the same time to release the pin.
5. Remove the nut and bolt securing the control arm to the frame (through the bushing), and remove the control arm from the car (See figure 1 on next page).

NOTE: Some models may require removal of the rear frame crossmember in order to access the control arm bushing mount.

6. Remove the existing bushing from the control arm by using the Control Arm Bushing Tool (not applicable to all models) or take the arm to a shop which can press the bushing out for you.
7. Install the new bushing using the installation tool or a hydraulic press.

NOTE: DO NOT press on the actual rubber or urethane. Use the appropriate arbor, which will only press on the outer metal shell.

For Performance Bushings: Be sure the reference marks on the bushing and arm are properly lined up before installing (See figure 2 on next page).

For Urethane Bushings: Notice that the center hole in the bushing is offset. Install the bushing so that the hole is offset toward the mark on the arm. If the bushing has a yellow mark, line this up with the mark on the arm. (See figure 3 on next page).



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8. Reinstall the control arm on the car by reversing steps 3 thru 5. For Urethane Bushings, coat the ends and center of the aluminum sleeve liberally with white lithium grease. Follow the recommended tightening torques listed on the next page.
NOTE: FOR PERFORMANCE BUSHINGS, DO NOT TORQUE CONTROL ARM BUSHING NUT AND BOLT UNTIL CAR IS LOWERED TO GROUND. URETHANE BUSHINGS CAN BE TORQUED WHILE VEHICLE IS RAISED.
9. Secure ball joint to strut with the nut and tighten to recommended torque below. Install a new cotter pin, if used.
10. Lower car to ground. Tighten control arm bushing nut and bolt to specified torque below.

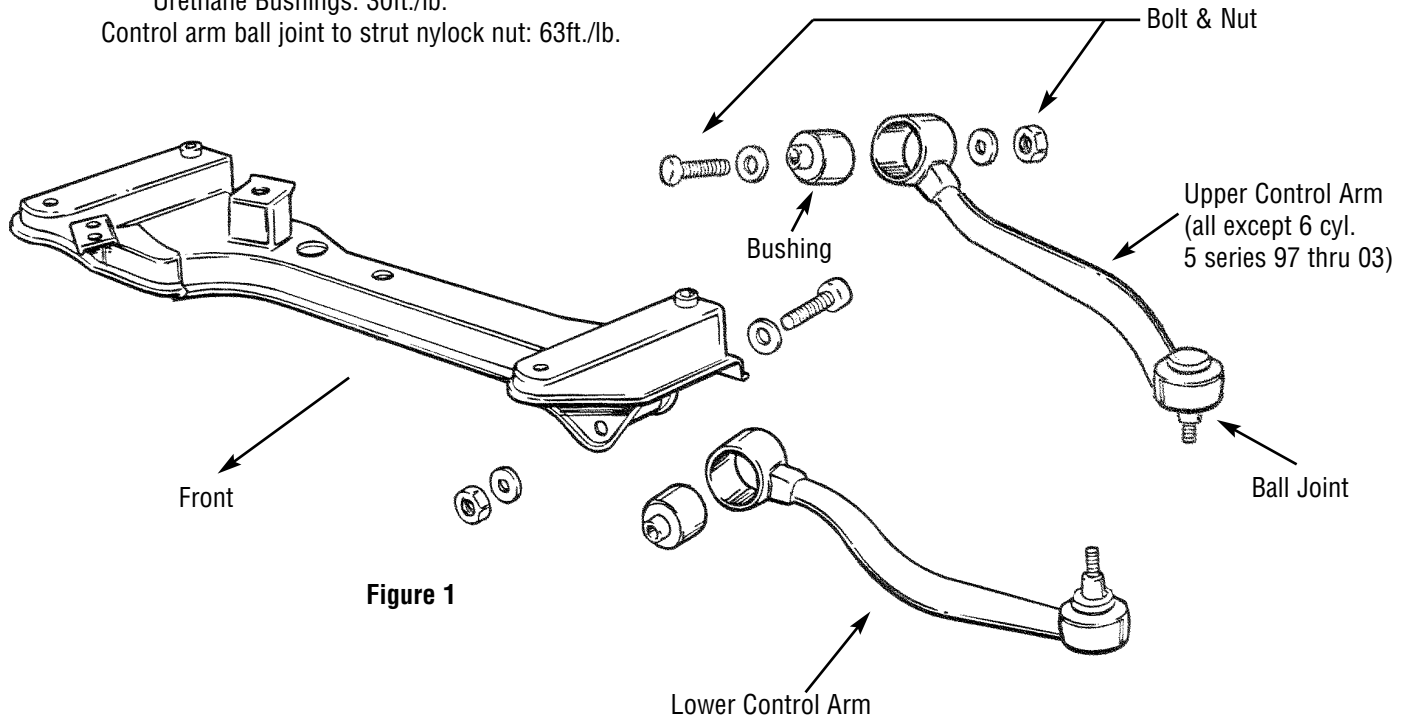
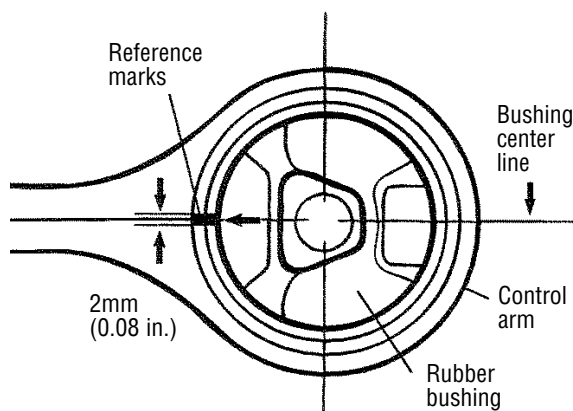
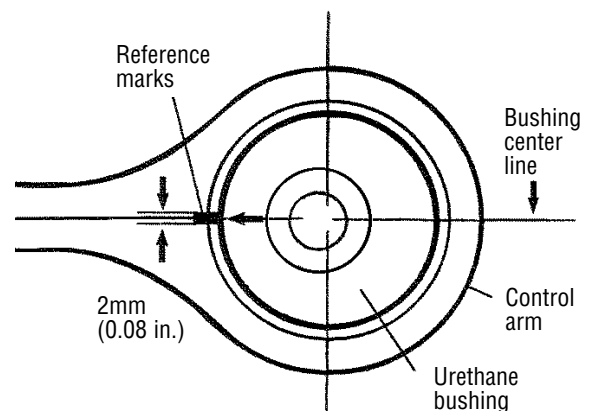
TIGHTENING TORQUES:

Control arm bushing nut and bolt:

Performance Bushings: 96ft./lb.

Urethane Bushings: 30ft./lb.

Control arm ball joint to strut nylock nut: 63ft./lb.

**Figure 1****Figure 2**Upper Control Arm - Performance Bushing
(endview)**Figure 3**Upper Control Arm - Urethane Bushing
(endview)Call Toll Free: **1.800.535.2002**