

BMW

BMW 4 Cyl.
2002
2002 Ti
BMW 6 Cyl.
Bavaria
3.0

REMOVAL & INSTALLATION

SHOCK ABSORBERS & COIL SPRINGS

Removal (4 Cyl. Models) — Raise and support vehicle and remove wheel. Place jack under control arm. Remove upper shock absorber mounting nut and compress shock. Remove lower retaining nut and remove shock absorber. Remove bolts securing output shaft to half shaft. Lower jack, rotating control arm down until coil spring can be removed.

Installation — To install, reverse removal procedure and tighten all nuts and bolts.

Removal (6 Cyl. Models) — Raise and support vehicle and remove wheel. Place jack under control arm. Remove upper and lower shock absorber mounting nuts and remove shocks with coil springs attached.

Installation — To install, reverse removal procedure and tighten all nuts and bolts.

SEMI-TRAILING CONTROL ARM

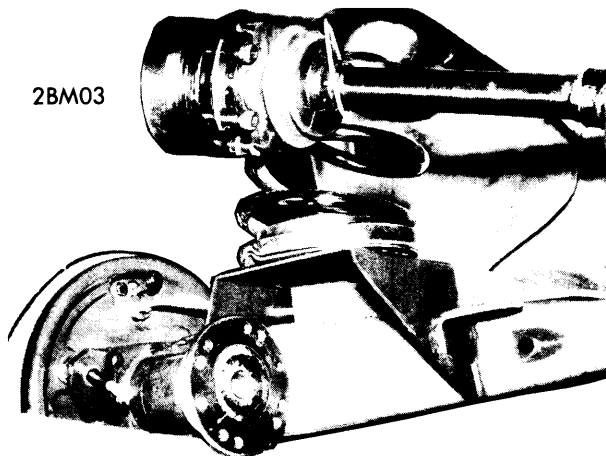
Removal — Raise and support vehicle and remove wheel. Support control arm under spring seat and support final drive. Remove nuts and bolts securing stabilizer bar to control arm. Remove shock absorber and coil spring. Disconnect parking brake cable at lever. Disconnect hydraulic brake line at control arm. Remove bolts securing control arm to crossmember and remove control arm.

Disassembly & Reassembly — With control arm mounted in holding device, extract rubber bushings using suitable tool (6011). Using same tool, install new bushings in control arms until they are completely seated.

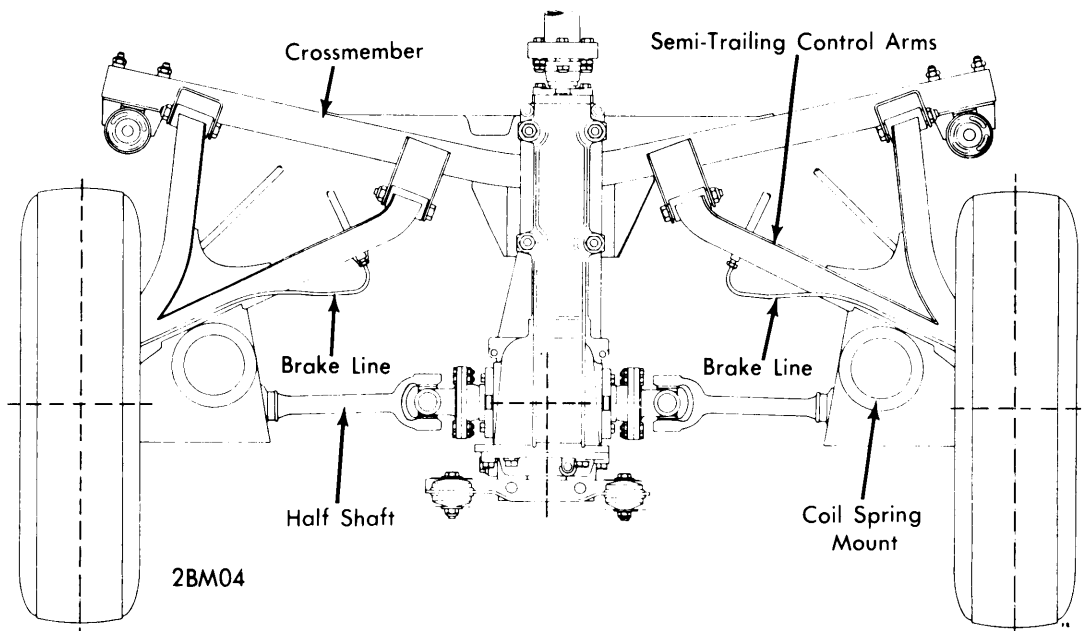
Installation — To install, reverse removal procedure and tighten all nuts and bolts. Bleed and adjust brakes.

DESCRIPTION

Independent type rear suspension with coil springs. Semi-trailing control arms pivot on crossmember and connect to axle shafts that are bolted directly to output shafts. Coil springs and shock absorbers are mounted on control arm purchases and operate between arm and upper body. On 4 cylinder models, a stabilizer bar is attached to crossmember and linked to both control arms.



2BM03
HALF SHAFT DISCONNECTED FROM OUTPUT SHAFT



2BM04
REAR SUSPENSION ASSEMBLY TYPICAL

Rear Suspension

BMW (Cont.)

TIGHTENING SPECIFICATIONS

Application (4 Cylinder)	Ft. Lbs. (mkg)
Large Final Drive Cover	31 (4.3)
Flange on Bevel Pinion	108 (14.9)
3-Arm Flange	108 (14.9)
Side Cover.....	15 (2.1)
Hex. Bolt in Drive Flange.....	75 (10.4)
Drive Pinion Bearing Stop	289 (40.0)
Axle Shaft Castellated Nut	244 (33.7)
Crownwheel-to-Final Drive	57 (7.9)
Application (6 Cylinder)	Ft. Lbs. (mkg)
Housing Cover	16 (2.2)
Crownwheel-to-Differential	86 (11.9)
Input Pinion Shaft	108 (15)
Rear Stub Axle-to-Drive Flange.....	180 (25)
Axle Shaft-to-Drive Flange.....	46 (6.4)
Crossmember-to-Body	107 (14.8)
Thrust Links-to-Body.....	19 (2.6)
Hex. Bolt in Drive Flange.....	68 (9.4)
Upper Shock Absorber Mounting.....	19 (2.6)
Lower Shock Absorber Mounting	94 (13.0)