

## MGB

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#### DESCRIPTION

Suspension consists of a lower control arm assembly, on which a coil spring is mounted. A kingpin connects lower control arm to steering knuckle. A shock absorber assembly is mounted on top of steering knuckle. A stabilizer bar is connected to lower control arm.

#### ADJUSTMENT

#### WHEEL ALIGNMENT SPECIFICATIONS & PROCEDURES

See *Wheel Alignment Specifications and Procedures* in **WHEEL ALIGNMENT** Section.

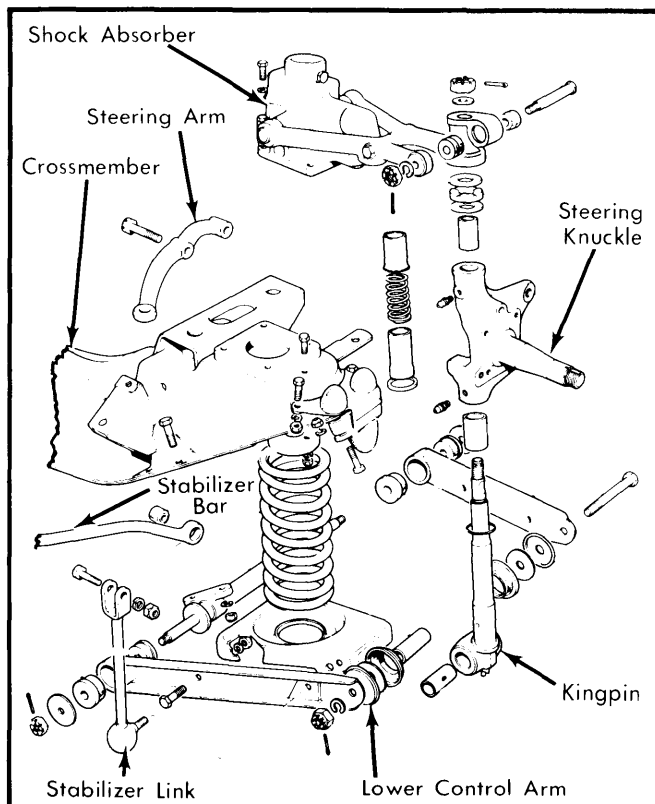
#### WHEEL BEARING ADJUSTMENT

See *Wheel Bearing Adjustment* in **WHEEL ALIGNMENT** Section.

### REMOVAL & INSTALLATION

#### COIL SPRING

**Removal** — Raise and support vehicle on safety stands, remove wheels. Remove stabilizer bar link from spring pans. Using suitable spring compressor (18G 693), compress spring and remove spring pan bolts from lower control arm. Release spring compressor, remove spring pan and spring.



**Fig. 1 MGB Front Suspension Assembly Shown as an Exploded View**

**Inspection** — Before reinstalling coil spring make sure free length of coil spring is 10.6" (269 mm). Also, check that under a load of approximately 1010-1050 lbs. (581-599 kg) spring height is 7.4" (190 mm).

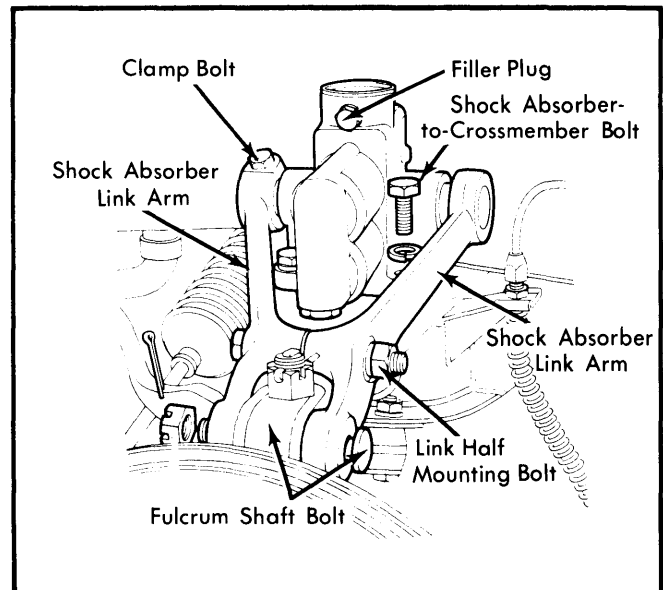
**Installation** — To install, reverse removal procedure and note: Shortest spring pan screw must be fitted to rear hole closest to wheel.

#### SHOCK ABSORBERS

**Removal** — 1) Raise and support front of vehicle. Place floor jack under spring pan and raise until shock absorber is clear of rebound bumper.

2) Remove cotter pin and remove castle nut from fulcrum bolt. Loosen clamp bolt and center bolt on shock absorber arm.

3) Drive out fulcrum pin. Pry shock absorber halves apart and swing trunion out of way. Wire steering knuckle to crossmember in an upright position. Remove 4 bolts mounting shock absorber to crossmember and slide out shock.



**Fig. 2 Shock Absorber Removal**

**Inspection** — 1) Place shock absorber vertically in vise. Remove filler plug. Move shock absorber levers back and forth to ensure they are firm and also to bleed air from housing. Recheck fluid level, fill to plug opening.

2) Check trunion bushings to make sure they are not deteriorated or severely worn. Replace bushings if necessary.

**Installation** — To install, reverse removal procedure and note: Grease kingpin.

#### LOWER CONTROL ARMS

**Removal** — 1) Raise and support front of vehicle. Remove tire and wheel. Remove coil spring as previously outlined.

2) Remove cotter pin and castle nut mounting lower control arm link at kingpin. Remove cotter pin and castle nut mounting control arm link to pivot shaft.

# Front Suspension

## MGB (Cont.)

3) Support hub assembly. Pull off front control arm link. Pull out control arm link mounting bolt at kingpin and force off back control arm link.

**Inspection** — Replace any bushings that show signs of excessive wear.

**Installation** — To install, reverse removal procedure and note: Make sure thrust washers face bushing correctly. Tighten castle nuts with vehicle weight on ground. If cotter pin cannot be fitted, tighten nut to next opening. Grease kingpin.

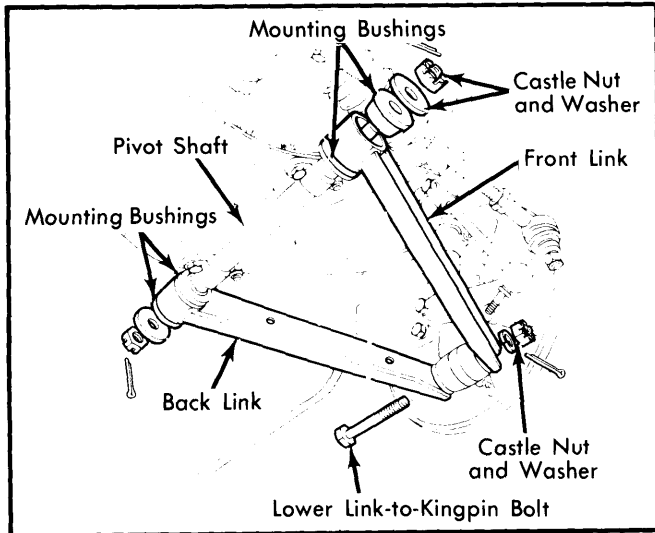


Fig. 3 Lower Control Arm Removal

### STEERING KNUCKLE

**Removal** — 1) Raise and support vehicle on safety stands. Remove tire and wheel. Detach caliper and support to avoid damage to brake hose. Remove hub and rotor. Remove steering lever and rotor dust cover. Remove coil spring as previously outlined. Remove cotter pins and nuts from upper and lower fulcrum shafts. Remove shock absorber lever arm center bolt and clamp bolt. Ease arm off.

2) Raise jack under spring pan. Loosen 2 bolts mounting lower arm link to the spring pan. Remove kingpin fulcrum bolt. Separate lower control links. Remove kingpin and spindle assembly. If necessary, kingpin can be separated from spindle assembly.

**Installation** — Check all parts for wear or damage. Check fulcrum shafts for out of round. Replace parts and shafts as necessary. To install, reverse removal procedure. Tighten nuts and bolts.

### STABILIZER BAR

**Removal** — 1) Raise and support front of vehicle. Disconnect stabilizer bars at lower control arm links.

2) Remove bolts mounting bushing clamps to body. Slide stabilizer bar from vehicle.

3) Pry mounting clamps away from bushings and slide bushings off stabilizer bar. Force link mounting bushings from each end of stabilizer bar. If bushings show signs of wear or severe deterioration, replace with new parts.

**Installation** — To install, reverse removal procedure. If bar is replaced, put old locaters  $9\frac{5}{16}$ " from center of stabilizer bar.

### FRONT SUSPENSION ASSEMBLY

**Removal** — 1) Raise and support vehicle. Remove tire and wheel. Disconnect tie rods from steering knuckle. Disconnect stabilizer bar at lower control arm connecting links.

2) Remove 4 bolts mounting steering rack to crossmember. Tie rack to stabilizer bar.

3) Disconnect brake hose at bracket. Plug openings. Place floor jack under crossmember.

4) Put rods through holes in crossmember to retain body to crossmember studs. Loosen both REAR stud lock nuts keeping crossmember to body.

5) Work inside of engine compartment and remove lock nuts and washers from both FRONT mounting studs. Remove mounting pad from each rear stud. Lower suspension from vehicle.

**Installation** — To install suspension assembly, reverse removal procedure and note: Make sure all mounting pads are aligned. Make sure that REAR stud clamp plates have depressions facing toward mounting pad. Bleed brake system.

### TIGHTENING SPECIFICATIONS

Application	Ft. Lbs. (mkg)
Shock Absorber Bolts .....	44 (6.1)
Brake Caliper Mounting Bolts .....	43 (6.0)
Crossmember-to-Body .....	55 (7.6)
Shock Absorber Pinch Bolt .....	28 (3.9)
Lower Control Arm Nuts .....	28 (3.9)
Stabilizer Bar Link Nut .....	60 (8.3)
Kingpin Nut .....	68 (8.3)