

## 1965-68 JEEP TORSION BAR TYPE

Jeep — J Models W/OHC Engine (1965-68)

*NOTE* — Some models use other units. See Jeep Leaf Spring Type in this Section.

### DESCRIPTION

Independent type front suspension consists of a two-piece control arm, a torsion bar, a strut rod, and a shock absorber at each front wheel. Torsion bar is mounted between frame side member and control arm, and controls up and down movement of wheel. Steering knuckle is mounted between control arm at the top and axle shaft tube at the bottom. Strut rod, mounted between axle tube and frame, controls shifting of the axle and determines caster angle. Hydraulic, double-action shock absorbers are mounted between frame side rail and axle tube.

### ADJUSTMENT

#### WHEEL ALIGNMENT SPECIFICATIONS & PROCEDURES

See Wheel Alignment Specifications & Procedures in WHEEL ALIGNMENT Section.

#### WHEEL BEARING ADJUSTMENT

See Wheel Bearing Adjustment in WHEEL ALIGNMENT Section.

### BALL JOINT CHECKING

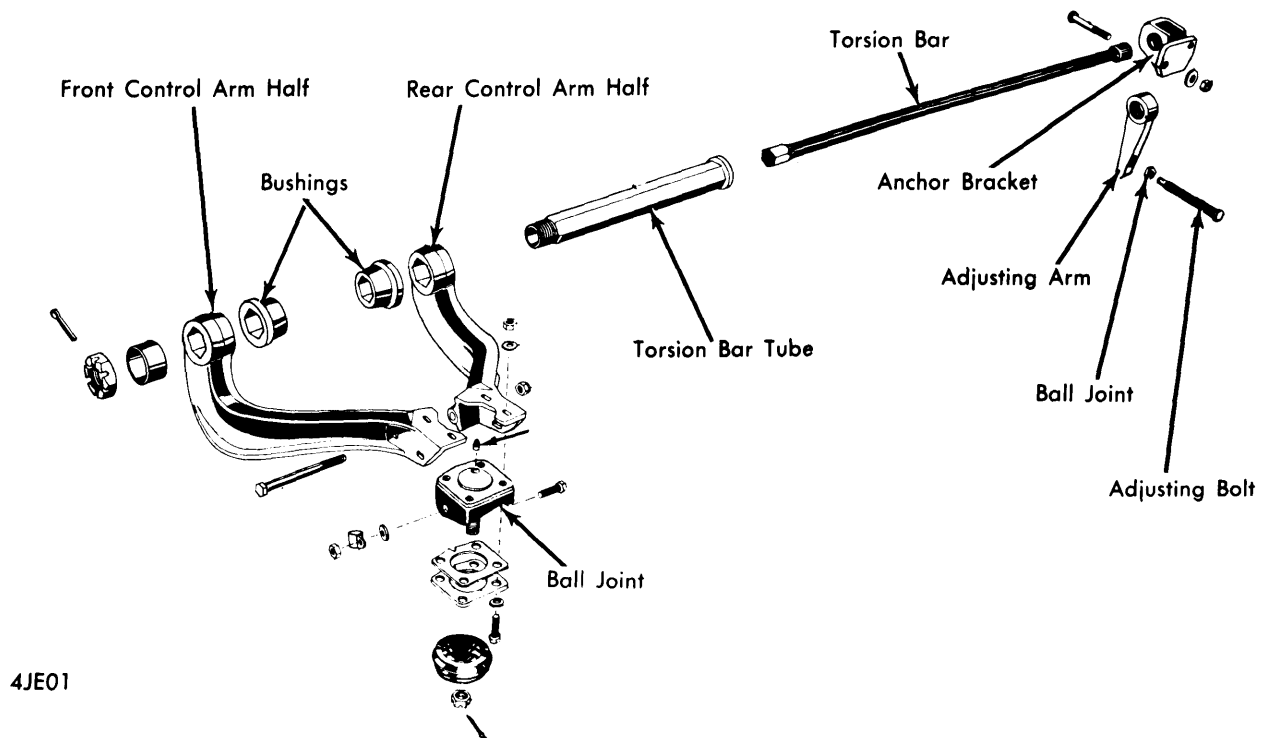
See Ball Joint Checking in WHEEL ALIGNMENT Section.

### REMOVAL & INSTALLATION

#### TORSION BAR

**Removal** — Raise and support vehicle under frame, and disconnect shock absorber at axle. Loosen torsion bar adjusting bolt until end of bolt is flush with inside of frame side rail. Remove anchor bracket attaching bolts, and slide anchor bracket, adjusting arm, and torsion bar toward the rear to remove from vehicle.

**Installation** — *NOTE* — Left and right torsion bars are not interchangeable. Bars are marked on ends for identification, and should always be installed with the mark toward the front. Insert hex shaped end of torsion bar into torsion bar tube. With torsion bar parallel to frame (as viewed from top), slide adjusting arm onto splines of torsion bar, such that lower end of adjusting arm just contacts frame side rail. Mark torsion bar and adjusting arm relative position. Remove adjusting arm from torsion bar and insert a wedge between torsion bar and frame. Using wedge, pry torsion bar away from frame until adjusting arm can be installed on torsion bar two serrations away from earlier installation, to preload torsion bar tension.



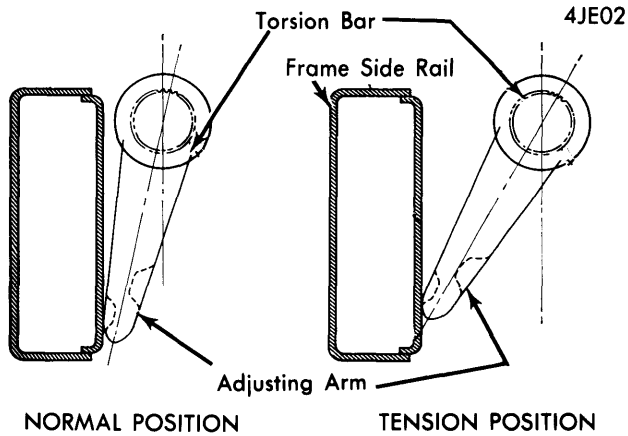
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### FRONT SUSPENSION ASSEMBLY

# Front Suspension

## 1965-68 JEEP TORSION BAR TYPE (Cont.)

Assemble adjusting arm and anchor bracket to end of torsion bar, and to frame side rail. Remove wooden wedge, connect shock absorber, and level axle with torsion bar adjusting bolt.



**TORSION BAR INSTALLATION**

### CONTROL ARM

**Removal** — With torsion bar removed from vehicle, place a jack under axle tube. Raise axle, and use a suitable retaining device to hold control arm up. Remove cotter pin and nut from ball joint stud, and lower axle until steering knuckle is free from control arm ball joint. Remove control arm retaining device. Remove ball joint retaining bolts from control arm, and remove bolts holding control arm halves together. Remove nut and spacer from front of torsion bar tube, and remove front control arm half. Pry rear control arm half and torsion bar tube from vehicle as an assembly, then remove tube from control arm.

**Installation** — To install, reverse removal procedure, tighten all nuts and bolts, and check wheel alignment.

### BALL JOINT

**Removal** — Disconnect control arm from steering knuckle as previously described. Remove ball joint-to-control arm attaching bolts and remove joint from vehicle.

**Installation** — To install, reverse removal procedure, making sure torsion bar is properly preloaded. See *Torsion Bar Removal & Installation*.