

# Front Suspension

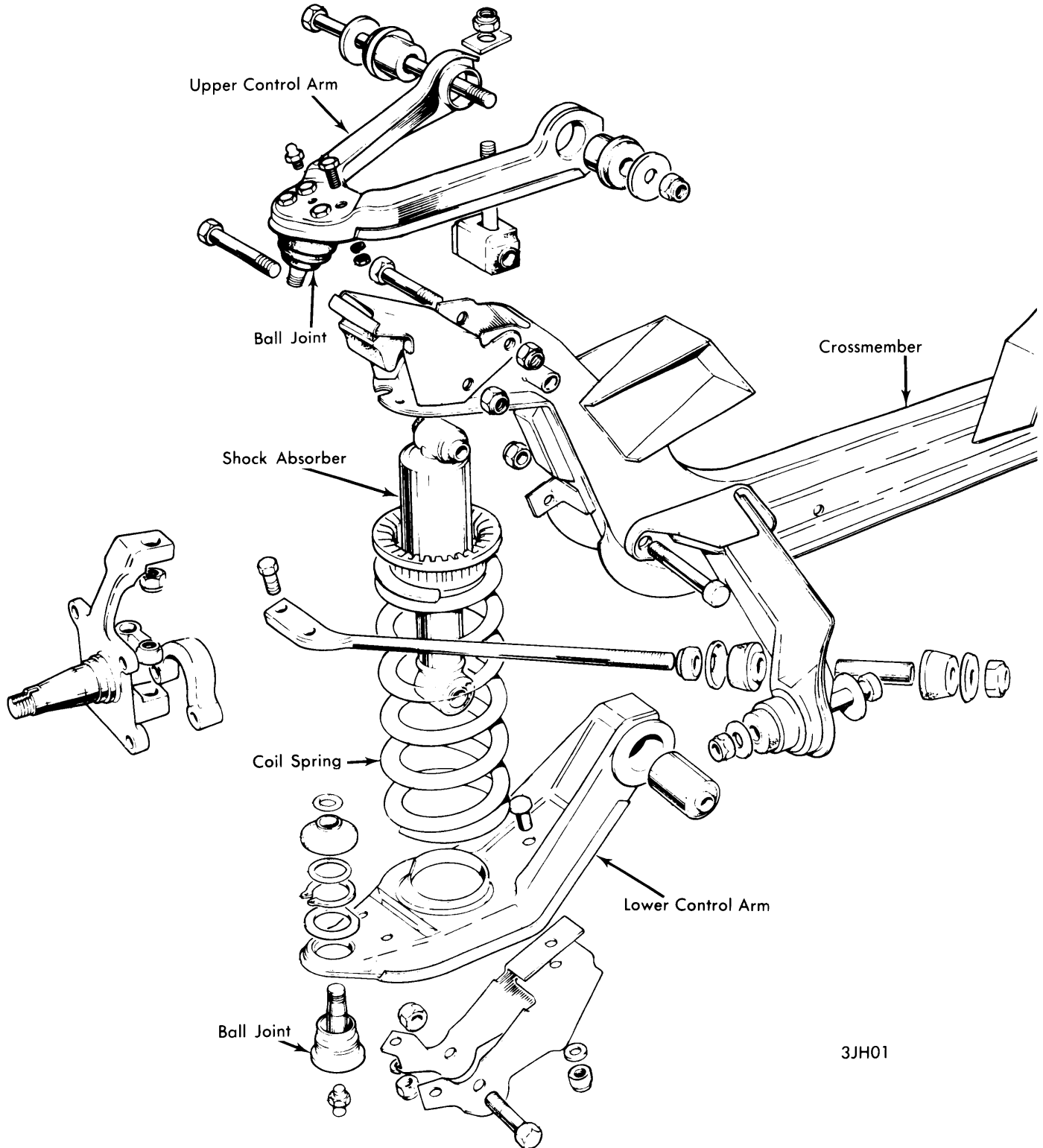
## JENSEN-HEALEY

Jensen-Healey

### DESCRIPTION

Independent type front suspension, consisting of upper and lower control arms, coil springs, hydraulic shock absorbers and

crossmember. Steering knuckle is attached to upper and lower control arms by means of ball joints. Upper and lower control arms pivot on crossmember. Coil springs are mounted between lower control arms and crossmember and hydraulic shock absorbers are mounted inside coil springs.



FRONT SUSPENSION ASSEMBLY

## JENSEN-HEALEY (Cont.)

### ADJUSTMENT

#### WHEEL BEARING SPECIFICATIONS & PROCEDURES

See *Wheel Bearing 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

#### SHOCK ABSORBERS

**Removal** — Raise and support vehicle then remove wheel. Place support under lower control arm. Compress spring using suitable spring compressor (VR 2112) and (VT 2025). Remove mounting bolts and retaining nuts from lower mounting bracket and remove upper retaining bolt, then remove shock absorber with lower bracket attached. After withdrawing shock absorber, remove lower mounting bracket by removing mounting bolt.

**Installation** — Assemble mounting bracket to shock absorber. Do not tighten lower mounting bolt. With coil spring compressed, install shock absorber and mounting bracket as an assembly. Tighten all nuts and bolts.

#### COIL SPRINGS

**Removal** — Raise and support vehicle and remove wheel. Remove shock absorbers and loosen fulcrum bolts on upper and lower control arms. Remove lower ball joint retaining nut and disconnect lower ball joint from steering knuckle. Disconnect strut rod from steering knuckle. **CAUTION** — To avoid changing caster angle, do not loosen rear adjusting nut on strut rod. Secure upper control arm against upper rubber bumper. Install suitable spring retainers (VR 2060), remove spring compressor then remove coil spring and insulator.

**Installation** — Install insulator on coil spring then position spring on lower control arm spring seat. Detach upper control arm from upper rubber bumper then compress coil spring, using a suitable spring compressor. Attach lower ball joint to steering knuckle. Connect strut rod and install shock absorbers. Tighten all nuts and bolts.

#### UPPER CONTROL ARMS

**Removal** — Raise and support vehicle then remove wheel. Compress coil spring using a suitable coil spring compressor. Place suitable support under steering knuckle and remove upper ball joint retaining nuts. Separate ball joint from steering knuckle. Remove fulcrum bolt from upper control arm and remove upper control arm.

**Installation** — To install, reverse removal procedure. **NOTE** — Prior to tightening nut on fulcrum bolt, ensure that full weight of vehicle is on wheels.

#### LOWER CONTROL ARM

**Removal** — Raise and support vehicle then remove wheel. Remove shock absorber then remove coil spring. Remove lower control arm fulcrum shaft and withdraw lower control arm.

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

### TIGHTENING SPECIFICATIONS

Application	Ft. Lbs. (mkg)
Lower Control Arm Fulcrum Bolt .....	32 (4.4)
Upper Control Arm Fulcrum Bolt .....	37 (5.1)
Strut Rod-to-Steering Knuckle .....	32 (4.4)
Shock Absorber Upper Mounting .....	32 (4.4)
Shock Absorber Lower Mounting .....	57 (7.9)
Upper Ball Joint Nut .....	33 (4.6)
Upper Ball Joint Bolts .....	22 (3.0)
Lower Ball Joint Nut .....	33 (4.6)
Tie Rod Ball Joint Nut .....	24 (3.3)