

1971-73 JAGUAR XJ6 & XJ12

XJ6 (1971-73)
XJ12 (1973)

BALL JOINT CHECKING

See *Ball Joint Checking* in *WHEEL ALIGNMENT* Section.

DESCRIPTION

Suspension consists of upper and lower control arms, double acting hydraulic shock absorbers, coil springs, stabilizer bar and steering knuckles. The upper control arms are mounted inboard to fulcrum shafts and are mounted outboard to steering knuckles by upper ball joints. Lower control arms are mounted inboard to crossmember and outboard to steering knuckles by lower ball joints. Coil springs are mounted between lower control arms and crossmember. Shock absorbers are attached at the bottom to lower control arms and at the top to body. Stabilizer bar is attached to lower control arms and crossmember.

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

FRONT SUSPENSION ASSEMBLY

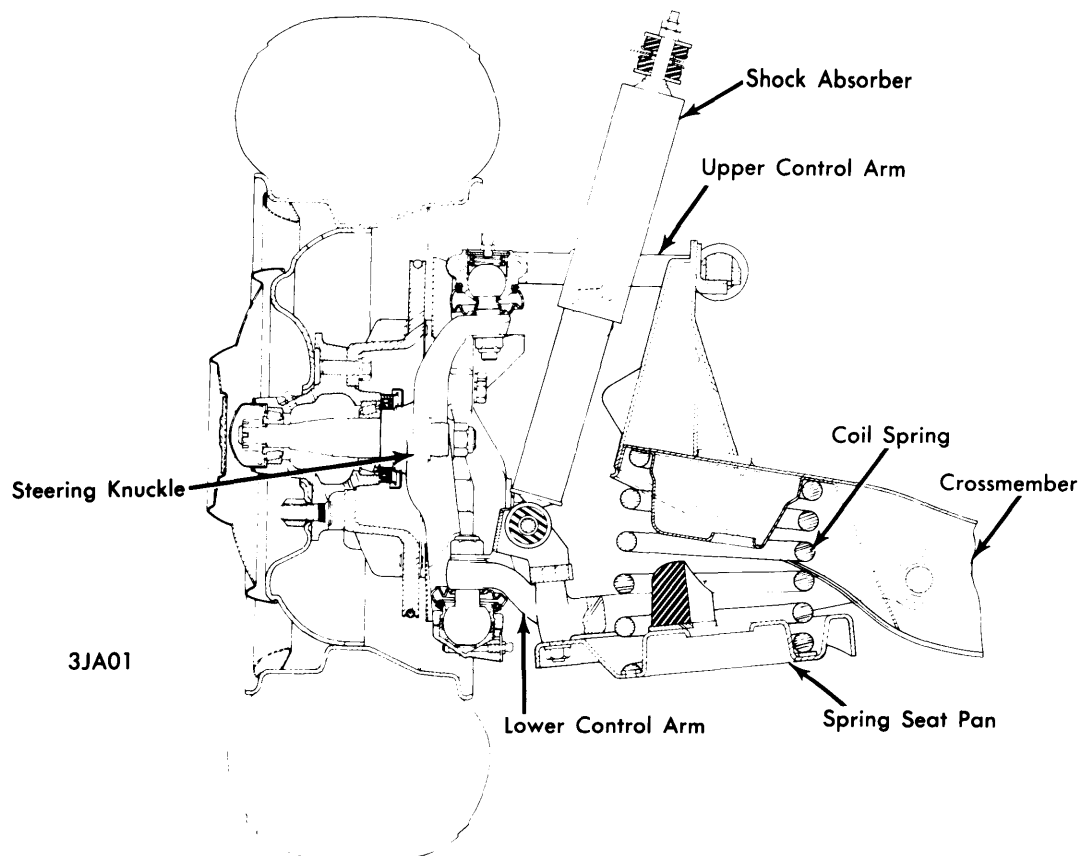
Removal — Disconnect battery then raise and support vehicle. Set supports so that vehicle is no higher than 16" from floor. Disconnect brake lines and disconnect flexible hoses from steering assembly. Remove stabilizer bar from crossmember then remove nuts attaching upper shock absorbers to body. Loosen pinch bolts securing lower steering column to universal and slide steering column off splines. Disconnect wires from horn. Remove nuts attaching suspension assembly to rear mounting rubbers then remove nuts and bolts securing front of suspension assembly. Lower suspension assembly on jack and remove from vehicle.

Installation — To install, reverse removal procedure and tighten all nuts and bolts. Bleed steering and brake systems.

SHOCK ABSORBERS

Removal — Remove lock nut securing upper shock absorber to body. Raise and support vehicle. Remove wheel, then remove bolt securing lower portion of shock absorber. Compress shock absorber and remove from vehicle.

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



FRONT SUSPENSION ASSEMBLY

Front Suspension

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COIL SPRINGS

Removal — Raise and support vehicle and remove wheel. Install a suitable spring compressor and compress spring to relieve load on spring seat pan. Remove set screws securing spring seat pan to lower control arm. Compress spring to allow withdrawal of spring seat pan and coil spring. Remove as an assembly.

Installation — To install, reverse removal procedure. *NOTE* — Packing pieces may be fitted above coil spring on some models.

LOWER CONTROL ARM

Removal (XJ6) — Raise and support vehicle, then remove wheel. Place jack under lower control arm. Remove brake caliper, hub and disc brake assembly. Disconnect and remove coil spring. Disconnect upper ball joint from steering knuckle. Disconnect and remove lower ball joint from lower control arm and remove steering knuckle. Using a suitable drift, remove fulcrum shaft and remove lower control arm.

Installation — To install, reverse removal procedure. *NOTE* — Before tightening nuts on ends of fulcrum shaft, lower vehicle to normal riding height.

Removal (XJ12) — Manufacturer recommends suspension assembly be removed from vehicle prior to removing lower control arm. After this step is completed, disconnect tie rod ball joints from steering knuckle. Remove steering rack from crossmember and remove coil spring. Disconnect ball joints from upper and lower control arms. Remove stabilizer bar. Using suitable drift, remove fulcrum shaft and remove lower control arm.

Installation — To install, reverse removal procedure. *NOTE* — Before tightening nuts on ends of fulcrum shaft, lower vehicle until full weight of vehicle is on suspension.

UPPER CONTROL ARM

Removal — Raise and support vehicle then remove wheel. Disconnect upper ball joint from upper control arm. Note the position and number of shims for reinstallation. These shims control the caster angle. Tie steering knuckle to coil spring. Remove bolts securing upper control arm fulcrum shaft to crossmember and remove upper control arm.

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

TIGHTENING SPECIFICATIONS

Application	Ft. Lbs. (mkg)
Upper Fulcrum Shaft-to-Crossmember	52 (7.2)
Upper Ball Joint-to-Control Arm	29 (4)
Fulcrum Shaft-to-Upper Control Arm	50 (6.9)
Fulcrum Shaft-to-Lower Control Arm	41 (5.7)
Upper Shock Absorber Mount	30 (4.1)
Lower Shock Absorber Mount	34 (4.7)
Spring Pan	30 (4.1)
Link-to-Lower Control Arm	16 (2.2)