

Front Suspension

JAGUAR XJ6 & XJ12

XJ6
XJ12

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

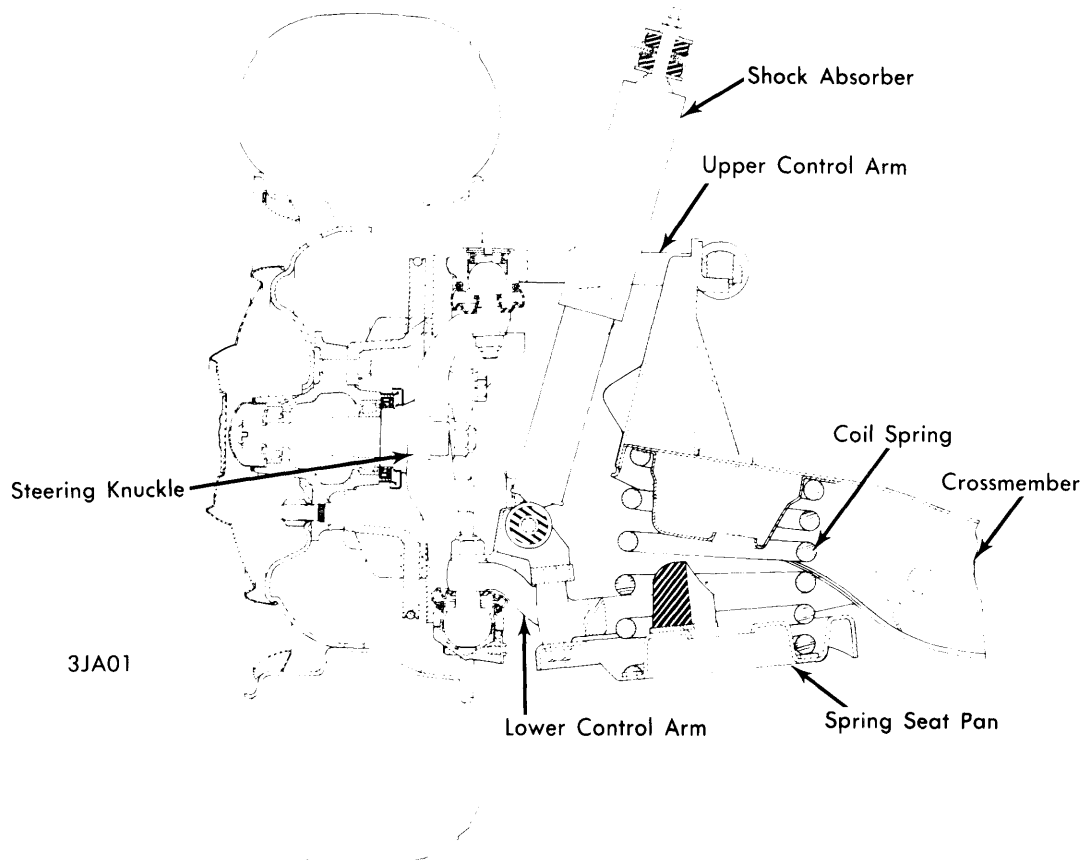
Removal – Disconnect battery then raise and support vehicle. Set supports so that vehicle is no higher than 16" from floor. Disconnect brake lines and disconnect flexible hoses from steering assembly. Remove stabilizer bar from crossmember then remove nuts attaching upper shock absorbers to body. Loosen 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

JAGUAR XJ6 & XJ12 (Cont.)

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 — Raise and support vehicle. Remove complete front suspension assembly as previously outlined. With assembly removed, disconnect tie rod ball joints from steering knuckle. Remove steering rack from crossmember and remove coil spring. Disconnect upper and lower ball joints from respective control arms. Remove stabilizer bar and using a suitable drift, remove pivot shaft from lower control arm.

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

UPPER CONTROL ARM

Removal — Raise and support vehicle, then remove wheel. Disconnect upper ball joint from control arm. Note number and position of caster adjusting shims for reinstallation. Wire steering knuckle to coil spring and remove bolts securing upper control arm pivot shaft to crossmember. Upper control arm can now be maneuvered from vehicle.

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

STABILIZER BAR

Removal — Raise vehicle and place on safety stands, then remove both front wheels. Disconnect both ends of stabilizer bar by unbolting mounting brackets. Separate stabilizer bar and remove bushings. Disconnect one side of tie rod from steering arm and maneuver stabilizer from vehicle.

Installation — To install stabilizer bar, reverse removal procedure noting the following: Lubricate new bushings before installation and tighten all nuts and bolts.

TIGHTENING SPECIFICATIONS

Application	Ft. Lbs. (mkg)
Upper Pivot Shaft-to-Crossmember	49-55 (6.8-7.6)
Upper Ball Joint-to-Control Arm	26-32 (3.6-4.4)
Pivot Shaft-to-Upper Control Arm	45-55 (6.3-7.6)
Pivot Shaft-to-Lower Control Arm	32-50 (4.4-6.9)
Upper Shock Absorber	27-32 (3.8-4.4)
Lower Shock Absorber	32-36 (4.4-5.0)
Spring Pan	27-32 (3.8-4.4)
Link-to-Lower Control Arm	14-18 (2.0-2.5)