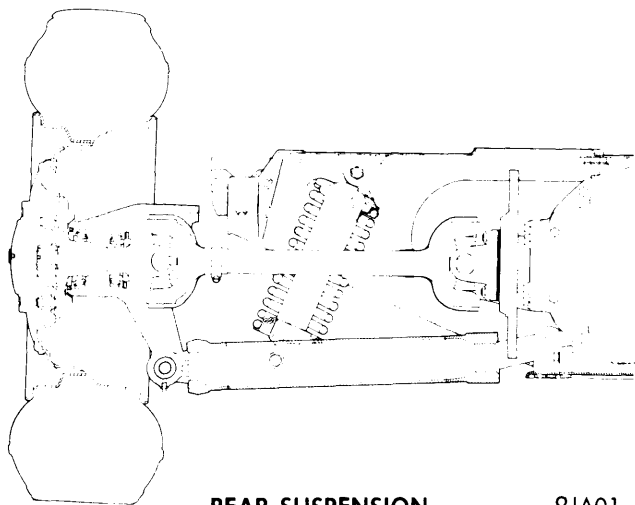


JAGUAR

XJ6
XJ12
"E" Type Series 3

DESCRIPTION

Independent, coil spring type suspension. Outer bearing carrier and hub assembly is supported by control arms at bottom and utilizes drive axles as upper support. Suspension is controlled by two coil spring/shock absorber assemblies mounted at each rear wheel. Movement of lower control arms are controlled by radius arms connected to control arms at rear and to chassis members at front.



REAR SUSPENSION 9JA01

ADJUSTMENTS

WHEEL ALIGNMENT SPECIFICATIONS & PROCEDURES

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

REMOVAL & INSTALLATION

COIL SPRING & SHOCK ABSORBER

Removal — Raise and support vehicle by placing safety stands under lower control arms. Remove lock nuts and washers securing shock absorbers to lower control arm, withdraw shock absorber mounting pin. Remove lock nut and bolt securing shock absorber to crossmember, remove coil spring/shock absorber assembly from vehicle. Using suitable spring compressor, compress coil spring until spring keeper can be removed. Release spring pressure and remove shock absorber.

Installation — To install, reverse removal procedure. Tighten nuts and bolts to specifications.

RADIUS ARM

Removal — Raise and support vehicle on safety stands. Remove safety wire and strap bolts securing safety strap to body. Remove radius arm securing bolt, safety strap and radius arm from body mounting post. Remove lock nut securing hub fulcrum shaft to lower control arm. Withdraw fulcrum

shaft from control arm and hub assembly. Remove lock nut and bolt securing radius arm to control arm, remove radius arm from vehicle.

Installation — Check and replace bushings as necessary. When pressing bushings in radius arm, equal amount of bushing should protrude from each side of radius arm. To install, reverse removal procedure. Tighten radius arm securing nut at body mount to specification.

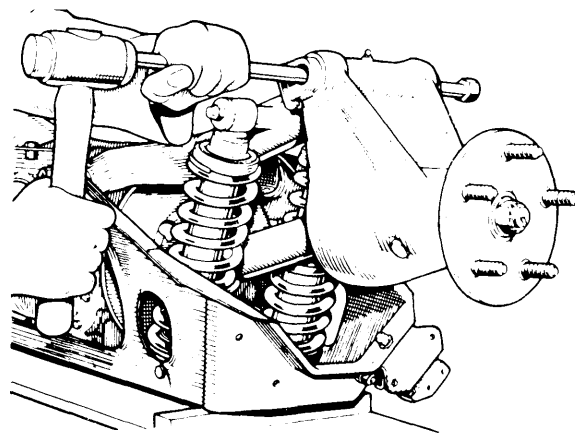
REAR SUSPENSION ASSEMBLY

Removal — Raise and support vehicle. Place stands forward of radius arms on body, place wood blocks between body and stands. Remove wheels. Remove mufflers from tail pipes. Detach radius arms at body mountings as previously outlined. Disconnect and plug brake lines at body. Remove clevis pin securing hand brake cable to actuating levers on crossmember. Loosen lock nut and remove outer hand brake cable screw from adjuster block. Detach drive shaft from differential. Place jack under rear suspension. Remove bolts and lock nuts securing front and rear crossmember mounts to frame. Lower and remove rear suspension from vehicle.

Installation — To install, reverse removal procedure and note the following: Bleed brakes. Tighten radius arm nuts on lower control arm to specifications when weight of vehicle is on wheels.

LOWER CONTROL ARM OUTER FULCRUM SHAFT

Removal — Remove rear suspension assembly as previously outlined. Support hub and control arm. Remove lock nut securing fulcrum shaft (note positioning of shims). Separate hub from control arm (see illustration). To install, reverse removal procedure and tighten nuts and bolts to specifications.



9JA02

REMOVING OUTER CONTROL ARM FULCRUM SHAFT

Disassembly — Remove oil seal track and pry out oil seal. Remove inner races of bearings by tapping with a punch in grooves provided. Remove spacers and shims, note quantity and position.

Reassembly — Install bearing inner race, shims and spacers. Install roller bearings, oil seal, and oil seal track.

Rear Suspension

JAGUAR (Cont.)

Installation — Using suitable pilot shaft (J 14), slide shaft through lower control arm and hub, install shims in reverse of removal. Install fulcrum shaft, tighten nuts and bolts to specifications.

LOWER CONTROL ARM

Removal — Remove rear suspension assembly as previously outlined. Remove lock nuts and bolts securing tie plate to crossmember and inner control arm fulcrum bracket. Remove tie plate. Remove lower control arm outer fulcrum shaft, radius arm from control arm and coil spring/shock absorber assembly as previously outlined. Remove lock nut securing control arm fulcrum shaft to crossmember and remove fulcrum shaft. Remove lower control arm, note location of thrust washers, oil seals and retainers. If fulcrum mounting bracket is to be removed, remove lock wire and set screws securing bracket to differential. Remove bracket.

Disassembly — Remove bearing tubes and needle bearings by tapping gently with a suitable punch.

Reassembly — Install bearings and tubes with engraving on bearings facing outwards.

Installation — Use suitable pilot shaft (J 14) to align control arm with crossmember. To install, reverse removal procedure and tighten nuts and bolts to specifications.

TIGHTENING SPECIFICATIONS	
Application	Ft. Lbs. (mkg)
Radius Arm-to- Control Arm.....	45-50 (6.2-6.9)
Radius Arm & Safety Strap-to-Body.....	40-45 (5.5-6.2)
Safety Strap-to-Body.....	15-18 (2.1-2.5)
Suspension Mounts.....	15-18 (2.1-2.5)
Shock Absorbers.....	30-36 (4.2-5.0)