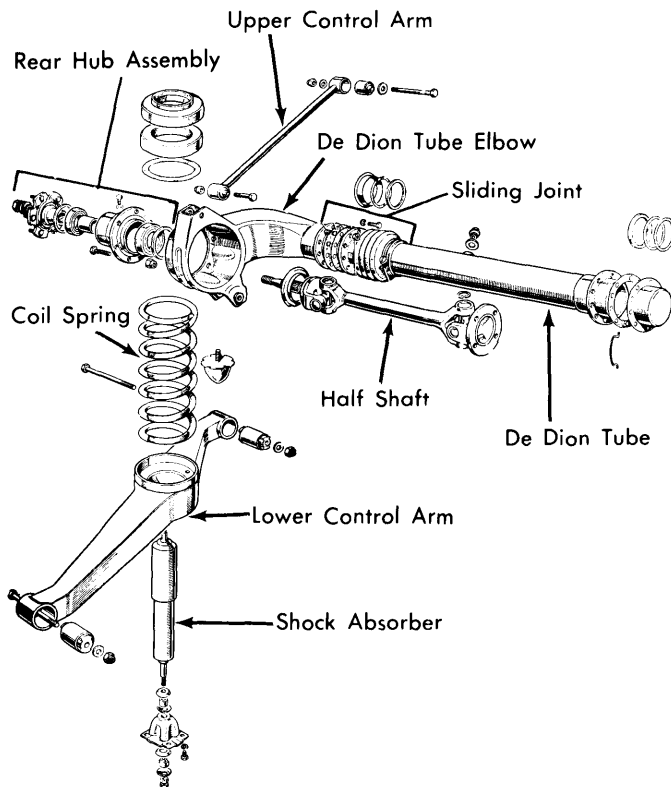


1966-71 ROVER 2000 & 3500S

2000 SC & TC (1966-70)
3500 S (1970-71)

DESCRIPTION

Rear suspension is a non-independent De Dion type with coil springs. Wheel is supported by a hub assembly mounted on the outer ends of a De Dion tube assembly. Drive to the rear wheels is provided by a double U-joint half shaft from chassis mounted differential assembly. Axle location is provided by upper and lower control arms. A large lower control arm runs forward from De Dion tube assembly to frame. Upper control arm runs rearward from De Dion tube assembly to frame. De Dion tube assembly is equipped with sliding members to provide the necessary track change required during suspension movement. Coil Springs are mounted between lower control arm and frame. Hydraulic shock absorbers are mounted between lower control arm and frame and are located inside of coil springs.



1R001

ROVER REAR SUSPENSION COMPONENTS

ADJUSTMENT

WHEEL ALIGNMENT SPECIFICATIONS & PROCEDURES

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

REMOVAL & INSTALLATION

SHOCK ABSORBERS

Removal – Remove rear seat cushion and back rest. Remove nuts securing top of shock absorber to frame. Raise vehicle and support with safety stands at jacking points, remove wheel. Remove bolts securing lower shock absorber mounting plate to lower control arm and remove shock absorber.

Installation – To install shock absorbers, reverse removal procedure. Jack up lower control arm to install top mounting of shock absorber.

LOWER CONTROL ARM & COIL SPRING

Removal – Raise vehicle until rear wheels are a minimum of 9" (229 mm) off floor and support with safety stands. Remove wheel and place jack under lower control arm. Raise lower link and remove bottom connection of shock absorber. Remove bolt and nut securing lower control arm to De Dion tube. Lower control arm and remove coil spring. Remove bolt, washer, nut and lockplate securing lower control arm to frame and remove lower control arm.

Installation – To install, reverse removal procedure. Torque bolts securing lower control arm to frame and De Dion tube only after weight of vehicle is on suspension.

UPPER CONTROL ARM

Removal – Raise vehicle and support on safety stands at jacking points, remove wheel. Place jack under lower control arm and raise suspension a few inches to relieve load on upper control arm. Remove bolts securing upper control arm to De Dion tube. Remove bolts securing control arm to frame from inside luggage compartment. Remove spare tire for removal of left hand control arm bolts.

Installation – To install, reverse removal procedure. Torque upper control arm bolts to specifications only after weight of vehicle is on suspension.

DE DION TUBE

Removal – Raise vehicle and support at jacking points with safety stands, remove wheels. Remove bolts and lock plates securing rear hub to drive shafts. Remove bolts and self-locking nuts retaining bearing housings for rear hubs to De Dion tube, and remove both hubs. Remove bolts securing upper control arm to De Dion tube. Loosen bolts securing lower control arm to De Dion tube and allow tube to pivot downwards. Remove De Dion tube.

Installation – To install, reverse removal procedure. Torque upper and lower control arm bolts to specifications only after weight of vehicle is on suspension.

OVERHAUL

De Dion Tube

Disassembly – Remove plug and drain oil. Mark De Dion tube and elbows at connecting flanges to ensure correct reassembly. Remove nuts and set bolts, detach right and left hand De Dion tube elbows. Remove blanking plates and packing washers. Remove retaining clip from left hand end of De Dion tube. Loosen dust boot clip, remove dust boot and spring.

Rear Suspension

1966-71 ROVER 2000 & 3500S (Cont.)

Remove left hand seal, packing washer and retainer from left hand side by prying out of housing. Right hand seal and retainer may now be removed by using a suitable drift. Clean and examine all parts and replace as necessary.

Reassembly – To reassemble, reverse disassembly procedure. When installing new seals, smear seals with MS4 silicone grease. Use a suitable joint compound when installing blanking plates. When installing elbows, ensure that reference marks line up and torque to specifications. Refill De Dion tube with .4 pts. (.19 liters) of 20W engine oil and install drain plug.

TIGHTENING SPECIFICATIONS

Application	Ft. Lbs.
Lower Control Arm Bolts.....	54
Upper Control Arm Bolts	54
De Dion Tube-to-Elbows.....	8
Rear Hub Bearing Housing-to-De Dion Tube.....	20
Rear Hub Yoke-to-Half Shaft	85