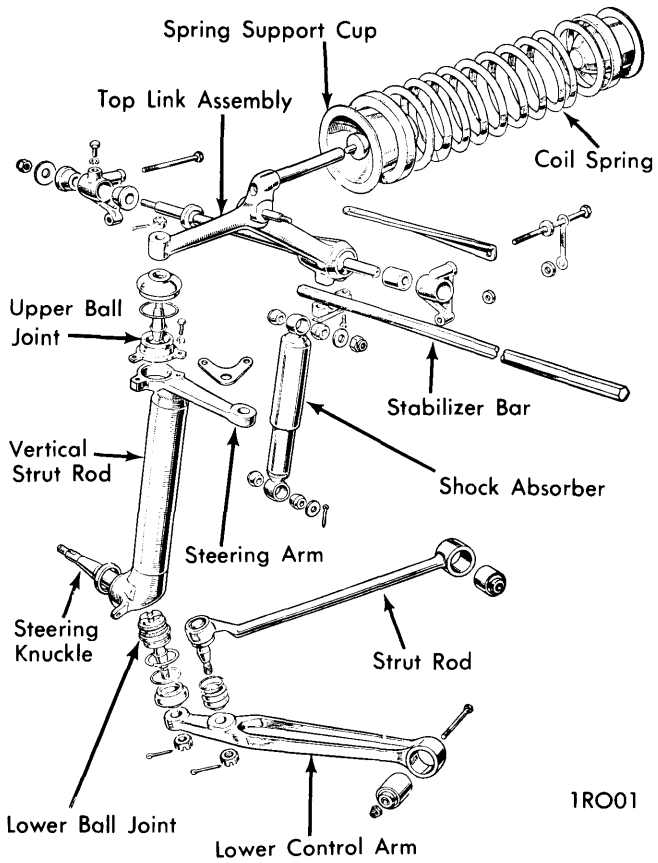
1966-71 ROVER 2000 & 3500S

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

DESCRIPTION

Rover front suspension is a modified independent strut type suspension with coil springs. Wheel is supported by a steering knuckle, which is integral with a vertical strut rod. Lower end of steering knuckle is attached to lower control arm by means of a ball joint. Inner end of lower control arm is attached by a pivot to frame. A strut rod is attached to lower control arm by means of a ball joint at front and pivots from frame at rear. Vertical strut rod (upper portion of steering knuckle) is attached at top to a "Y" shaped top link assembly by means of a ball joint. Lower arm of top link mounts to pivot point on firewall. Upper arm of top link attaches to support cup for coil spring. Coil spring is mounted in a horizontal position between support cup and firewall. Hydraulic shock absorbers mount between frame and top link assembly. A stabilizer bar is attached at each end to firewall pivot point of top link assembly.



ROVER FRONT SUSPENSION COMPONENTS

ADJUSTMENT

WHEEL ALIGNMENT SPECIFICATIONS & PROCEDURES

See Wheel Alignment 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 vehicle and support at frame on safety stands, remove wheel. Jack up suspension to take weight off shock absorber. Remove cotter pin from bottom mounting, using suitable tool (605227), and remove washer and outer rubber bushing. Remove nut, washer and outer rubber bushing off top mounting point. Remove shock absorber and inner rubber bushings.

Installation – To install, reverse removal procedure, replacing cotter pin. Replace rubber bushings if necessary.

LOWER CONTROL ARM

Removal – Raise vehicle and support at frame on safety stands, remove wheel. Remove cotter pins and loosen slotted nuts securing lower control arm to steering knuckle. Press out ball joint shafts from lower control arm using suitable tool (601476). Remove self locking nut and bolt securing control arm to frame and remove lower control arm.

Installation – To install, reverse removal procedure, tightening all bolts and nuts to specifications. Tighten bolt securing lower control arm to frame only after vehicle is resting on suspension.

TOP LINK, COIL SPRING & BALL JOINT

Removal – Place suitable coil spring retainers (600304) on spring. Raise vehicle and support at frame on safety stands, remove wheel. Remove upper shock absorber mounting. Remove cotter pin and loosen slotted nut securing top ball joint to top link assembly. Remove bolts securing brake hose mounting plate and top ball joint to vertical strut rod. Press down on lower control arm with a suitable lever and using a suitable drift, tap ball joint from vertical strut rod. Using suitable ball joint extractor (601476), press out ball joint from top link assembly. Remove stabilizer bar caps. From inside vehicle, cut insulation on firewall as necessary to gain access to bolts securing top link assembly brackets to firewall. Release lock plates and remove bolts. Release bolts securing outer top link brackets, which are accessable when door is open. The entire top link assembly with coil spring can now be removed.

Installation – To install, reverse removal procedure, tightening all bolts and nuts to specifications. Do not install stabilizer bar caps until coil spring has been released from spring retainers.

VERTICAL STRUT ROD & LOWER BALL JOINT

Removal – Raise vehicle, support at frame of safety stands and remove wheel. Remove brake system components from

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steering knuckle. *NOTE — See appropriate story in BRAKE Section for removal procedure.* Remove front hub. Remove upper ball joint from top link assembly, lower ball joint from lower control arm, and steering ball joint from tie rod; by loosening slotted nuts and pressing out ball joint using suitable ball joint extractor (601476). The vertical strut rod can now be removed. To remove lower ball joint, first remove dust boot using suitable tool (511041). Remove retaining ring from ball joint. Using suitable ball joint extractor (600962), remove ball joint from vertical strut rod.

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

TIGHTENING SPECIFICATIONS

Application	Ft. Lbs.
Upper Ball Joint Nut	55-85
Lower Ball Joint Nut	60-75
Strut Rod Ball Joint Nut	60-75
Lower Control Arm-to-Frame	54
Lower Control Arm-to-Vertical Strut	60-75
Strut Rod-to-Frame	54
Top Link Assembly Securing Bolts	30
Stabilizer Bar Cap Bolts	30