

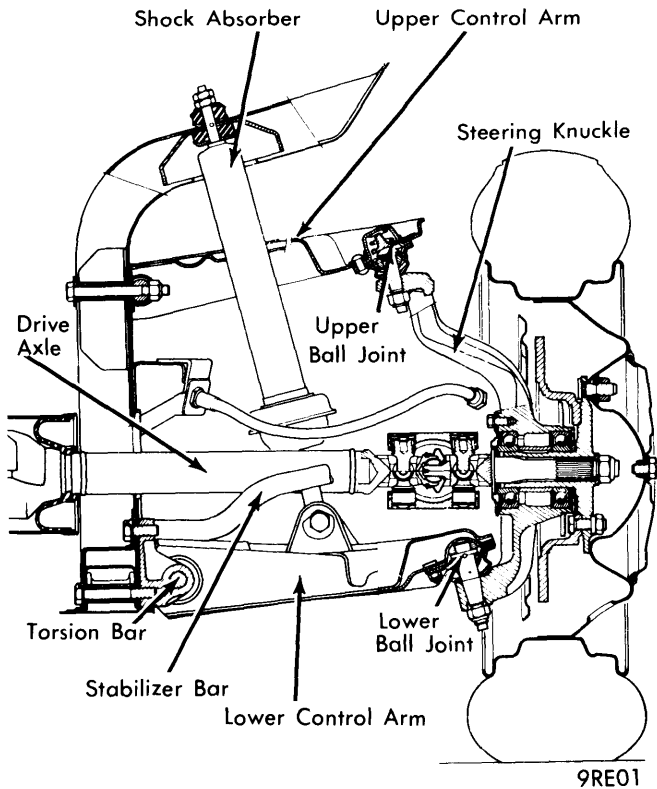
Front Suspension

1969-72 RENAULT R-16

R-16 (1969-72)

DESCRIPTION

Independent type front suspension, using torsion bars. Steering knuckle is held in place by upper and lower control arms. Shock absorbers extend from lower control arm to body. Lower control arm is connected by a torsion bar which is attached to the body. The upper control arm pivots on a hinge pin which is connected to the body. Ball joints secure steering knuckle to control arms. A stabilizer bar is connected to both lower control arms.



FRONT SUSPENSION ASSEMBLY

ADJUSTMENT

WHEEL ALIGNMENT SPECIFICATIONS & PROCEDURES

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

WHEEL BEARINGS

See *Wheel Bearings* in **WHEEL ALIGNMENT** Section.

BALL JOINT CHECKING

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

REMOVAL & INSTALLATION

UPPER CONTROL ARM

Removal - Raise and support vehicle. Remove wheel and remove shock absorber. Remove upper ball joint nut and ex-

tract ball joint using suitable tool (T.Av.54-01). Remove nuts securing control arm hinge pin to body and remove control arm.

Installation - To install, reverse removal procedure and tighten all nuts and bolts to specification. Check wheel alignment.

LOWER CONTROL ARM

Removal - Raise and support vehicle and remove wheel. Remove wheel hub nut and washer. Remove brake caliper without disconnecting brake hose. Attach suitable tool to prevent axle from dropping down. Return the underbody height adjusting cam to zero. Mark position of torsion bar and remove. Remove lower shock absorber mount and bolts securing stabilizer bar to lower control arm. Disconnect lower ball joint using suitable tool (T.Av.237-01). Remove bolts securing lower control arm and remove control arm from chassis. Fit suitable tool (T.Av.235) and partially remove drive axle. Lift hub and disc assembly and remove lower control arm.

Installation - To install, reverse removal procedure and tighten all nuts and bolts to specification. Adjust brakes and check wheel alignment.

STEERING KNUCKLE

Removal - Raise and support vehicle and remove wheel. Remove hub nut and washer and remove brake caliper without disconnecting hose. Partially push out roll pins without removing them. Disconnect upper suspension ball joint and steering ball joint. Using suitable tool (T.Av.235), remove drive axle. Disconnect lower ball joint and remove steering knuckle.

Installation - To install, reverse removal procedure and tighten all nuts and bolts to specification.

BALL JOINTS

Removal - Disconnect ball joint using suitable tool. Drill out rivets and remove ball joint.

Installation - To install, reverse removal procedure using bolts and nuts to replace rivets. Tighten all nuts and bolts to specification.

STABILIZER BAR

Removal - Raise and support vehicle. Disconnect stabilizer from lower control arm. Remove wheel on right side. Remove nuts retaining transmission to front transmission mount. Use a jack to raise transmission until it contacts steering crossmember. Push stabilizer bar to the right until the end passes over transmission shaft, and remove stabilizer bar.

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

TIGHTENING SPECIFICATIONS

Application	Ft. Lbs.
Wheel Hub Nut	35
Shock Absorber Nut	30
Lower Ball Joint	35
Upper Ball Joint	25
Steering Ball Joint	25
Upper and Lower Control Arms	30