

## VOLVO

240 Series  
164 Series

### DESCRIPTION

All models use a live axle with coil spring rear suspension. Control arms, running forward from axle, are used. A track bar is connected at one end to axle and on opposite side of vehicle to frame. Coil springs mount between axle assembly and frame. Hydraulic shock absorbers are used and are attached at top end to frame and at lower end to control arm.

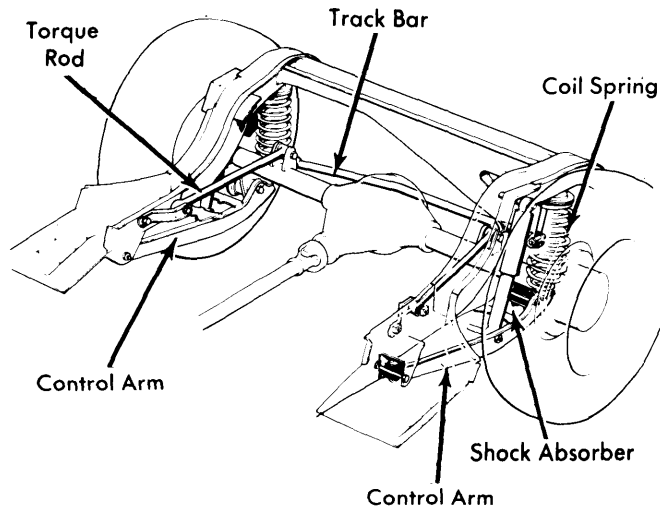


Fig. 1 Volvo Rear Suspension Assembly

### REMOVAL & INSTALLATION

#### REAR AXLE

**Removal** – Raise rear of vehicle and position safety stands. Remove tires and wheels. Place a jack under axle housing and raise axle until spring compresses slightly. Disconnect shock absorbers from top mount. Disconnect brake lines from rear axle, then remove brake caliper attaching bolts. Use wire to hook calipers to top shock absorber support to prevent brake lines from becoming damaged or distorted. Remove parking brake drums, and shoes, then disconnect brake cables to levers. Remove springs attaching cables to rear axle.

Disconnect propeller shaft from flange on rear axle pinion. Disconnect springs from rear axle, lower rear axle and remove coil springs. Remove bolts attaching control arms and torque rod to rear axle. Pull rear axle assembly from vehicle.

**Installation** – To install, reverse removal procedure while noting the following: Check that all rubber spacers are properly installed. Lubricate brake lever joints with heat resistant graphite grease. Adjust rear brakes and parking brake (if necessary). Tighten all nuts and bolts.

#### COIL SPRINGS

**Removal** – Raise vehicle and place on safety stands. Remove tires and wheels. Place jack under rear axle housing and jack up axle until spring compresses. Disconnect lower shock absorber mounting, then remove spring lower retaining nut. Lower jack and remove coil spring.

**Installation** – To install, reverse removal procedure and tighten all nuts and bolts. Make sure rubber spring support is in correct position.

#### SHOCK ABSORBER

**Removal** – Raise rear of vehicle and support on safety stands. Remove wheel and tire. Use jack to raise rear axle. Remove upper and lower attaching nuts, then remove shock absorber.

**Installation** – To install, reverse removal procedure and make sure spacer sleeve is in correct position.

#### CONTROL ARMS

**Removal** – Raise rear of vehicle and position on safety stands. Position jack under rear axle housing and jack up axle until spring compresses. Disconnect shock absorber from control arm. Remove coil spring lower retaining nut, then remove spring. Remove control arm attaching bolts, and control arm.

**Installation** – Install attaching bolts for forward end of control arm, then install rear control arm attaching bolts. *NOTE* – Tighten bolts finger tight only at this time. Install coil spring and attaching nut. Raise rear axle while guiding coil spring into position, then attach shock absorber lower mount to control arm with spacer sleeve on inside. Tighten control arm attaching bolts to specifications.