

VOLKSWAGEN VANAGON

DESCRIPTION

Rear suspension is independent, coil spring type. Trailing arms mount in front to 2 pivot brackets having provision for caster and toe-in adjustment. Shock absorber mounts at top to chassis and at bottom to rear of trailing arm. Coil spring mounts to trailing arm and chassis in spring seats ahead of shock absorber. Drive shafts run through trailing arms and attach to inside of wheel hub.

ADJUSTMENT

WHEEL ALIGNMENT SPECIFICATIONS & PROCEDURES

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

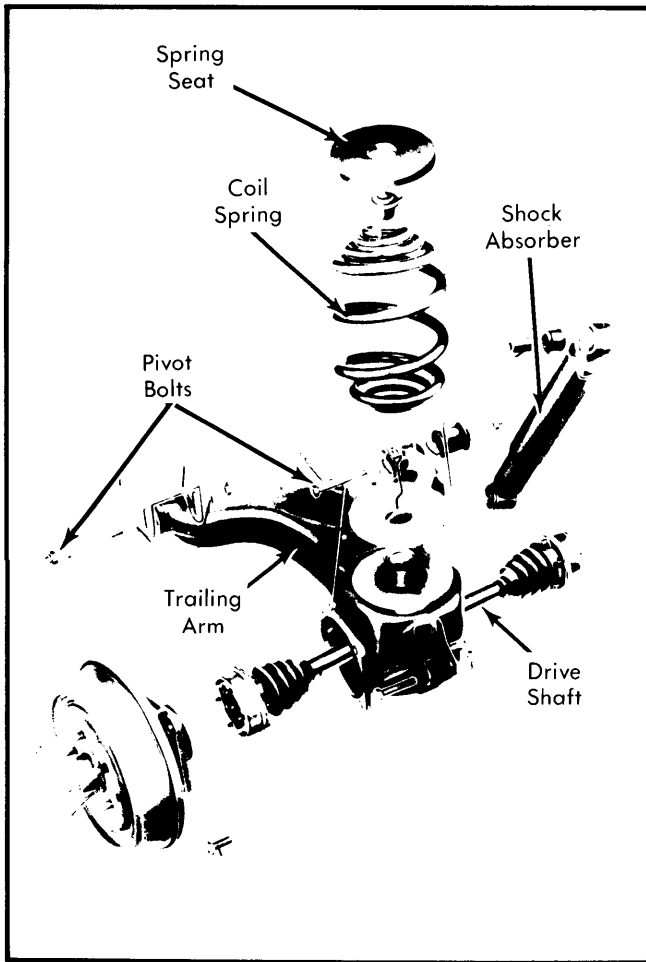


Fig. 1 Exploded View of Vanagon Rear Suspension

REMOVAL & INSTALLATION

TRAILING ARMS

Removal — 1) Raise and support rear of vehicle. Remove tire and wheel. Support trailing arm with a jack.

2) Remove 4 nuts attaching brake drum and axle hub assembly to trailing arm. Using hex wrench, remove hex screws at drive shaft-to-transaxle joint.

3) Pull drive shaft and brake drum assembly through trailing arm and remove from vehicle. Remove shock absorber lower mounting bolt and slowly lower jack.

4) Remove coil spring and spring seats. Note relative position of trailing arm in mounting brackets and remove pivot bolts. Remove trailing arm from vehicle.

Bushing Removal — Using bushing remover (VW 442) and adapter (30-14), and a threaded rod, pull bushing out of trailing arm.

NOTE — Coat washer with oil and place between nut and tool.

Bushing Installation — Coat hole in trailing arm, installation tool, and bushing with soap solution. Using bushing installation tool (3053), and threaded rod, pull bushing into trailing arm until sleeve contacts tool. Wait about 30 seconds and remove tool.

NOTE — Bushing should seat itself. If necessary, press edge of bushing out.

Installation — Reverse removal procedures and note the following: Depressions in spring seats must be aligned with ends of coil springs. Align depression in lower spring seat with depression in trailing arm. Install trailing arm at noted position in brackets. After installation, adjust toe-in and camber.

SHOCK ABSORBER & COIL SPRING

Removal — 1) Raise and support rear of vehicle. Support trailing arm with a jack. Remove shock absorber mounting bolts and remove shock absorber.

NOTE — If only coil spring is to be removed, remove only one shock absorber mounting.

2) Slowly lower jack. Remove coil spring and spring seats.

Bushing Replacement — Using suitable press, press out bushings in shock absorber. File off any sharp edges on sleeve before installation. Coat parts with soap solution and press sleeve 1/2 way into bushing using vise. Using press, fully push bushing and sleeve into shock absorber.

Installation — Reverse removal procedures and note the following: End of coil spring must fit in spring seat depressions. Depression in lower spring seat should fit into depression in trailing arm.

TIGHTENING SPECIFICATIONS

Application	Ft. Lbs. (N.m)
Drive Shaft Hex Screws	33 (45)
Hub Assembly-to-Trailing Arm	101 (137)
Shock Absorber Lower Mounting Bolt	65 (88)
Trailing Arm Pivot Bolts	76 (103)