

PORSCHE 928

DESCRIPTION

Porsche 928 has a MacPherson strut independent rear suspension. Strut assembly consists of a coil spring surrounding a strut tube with an inner shock absorber.

Strut is mounted at bottom to the rear wheel hub and lower control arm and at top to vehicle body. An upper control arm is also incorporated. A stabilizer bar is connected by a link to the lower control arm.

ADJUSTMENTS

WHEEL ALIGNMENT SPECIFICATIONS & PROCEDURES

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

REMOVAL & INSTALLATION

REAR SUSPENSION ASSEMBLY

Removal

1) Raise vehicle and support with safety stands. Detach axle shaft from differential by removing Allen head bolts.

2) Detach caliper from rotor. Remove countersunk screws and take off rotor. Remove parking brake shoes and spreader lever. Pull parking brake cable out of guide in hub assembly.

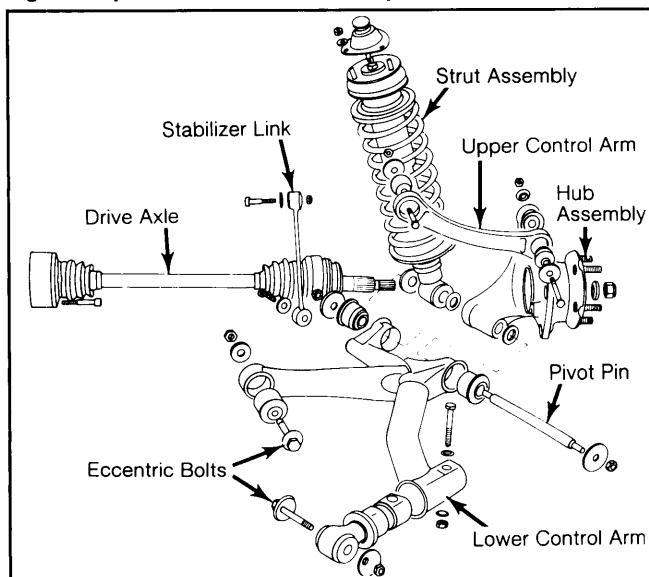
3) Remove hub assembly with upper control arm attached after removing control arm retaining bolt.

4) Remove lower control arm retaining nuts and bolts. Remove control arm from vehicle. Remove stabilizer bar and link, (if necessary).

Installation

To install, reverse removal procedures.

Fig. 1: Exploded View of Rear Suspension



STRUT ASSEMBLY

Removal

1) Working from luggage compartment, remove retaining nuts from upper strut mounting plate.

Raise vehicle and support with safety stands. Remove wheel assembly.

2) While holding rear nut, remove front nut from pivot pin of lower control arm (it may be necessary to double-nut the shaft end with another M14 x 1.5 Nut). Remove pivot pin.

3) Remove stabilizer bar link from its attachment at lower control arm to gain additional clearance. Remove strut assembly from vehicle.

Disassembly

1) Attach a coil spring compressor to coil spring and compress enough to allow removal of top piston rod nut. Loosen coil spring compressor slowly, and remove coil spring.

2) Lift off cover pieces, unscrew adjusting nut and remove threaded sleeve.

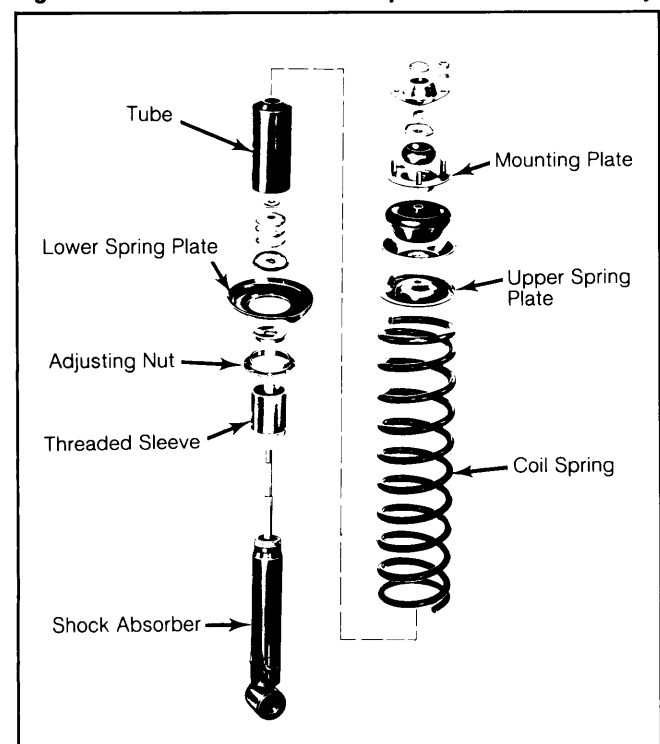
Reassembly

Reassemble in reverse of disassembly procedures. See Fig. 2.

Installation

To install, reverse removal procedures.

Fig. 2: Disassembled View of Suspension Strut Assembly



TIGHTENING SPECIFICATIONS

| Application | Ft. Lbs. (N.m) |
|-------------------------------------------|----------------|
| Caliper-to-Hub Bolt | 61 (83) |
| Hub-to-Stub Axle | 333 (453) |
| Lower Control Arm-to-Hub | 101 (137) |
| Lower Control Arm-to-Link Pin | 61 (83) |
| Shock Absorber-to-Upper Strut Mount | 42 (57) |
| Stabilizer Bar-to-Body | 33 (45) |
| Stabilizer Bar-to-Link | 33 (45) |
| Stabilizer Link-to-Control Arm | 33 (45) |
| Upper Control Arm-to-Crossmember | 33 (45) |
| Upper Control Arm-to-Hub | 33 (45) |
| Upper Strut Mount-to-Body Nuts | 33 (45) |