

PORSCHE 928

DESCRIPTION

Front suspension is an independent type strut suspension. It consists of a strut assembly, surrounded by a coil spring. This assembly is connected at top to inner fender panel and at bottom to lower control arm. Lower control arm connects at outer end to steering knuckle through a ball joint. At inner end of the "T" shaped control arm, 2 bushings connect arm to frame member. An upper control arm is attached by ball joint to steering knuckle and by pivot shaft to frame member. A stabilizer bar is connected via a link to lower mounting of strut assembly.

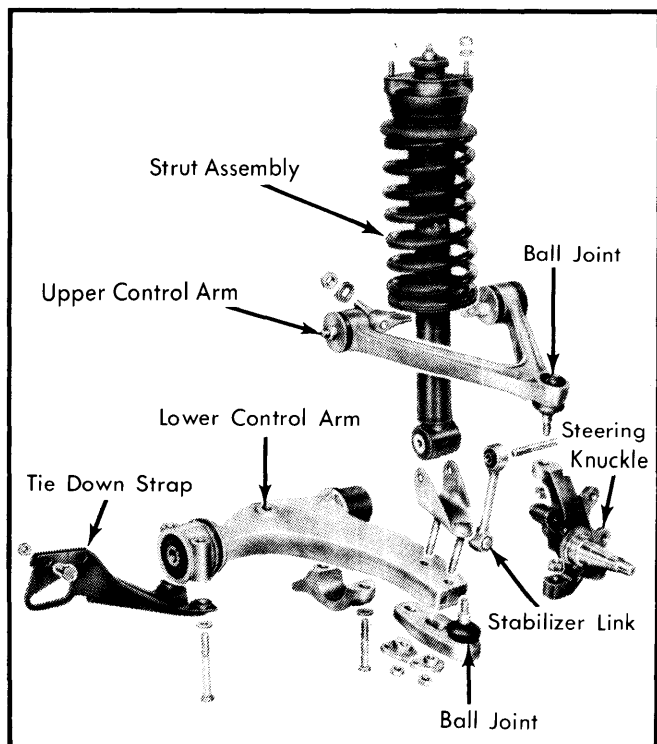


Fig. 1 Exploded View of Porsche 928 Front Suspension Assembly

ADJUSTMENTS

WHEEL BEARING ADJUSTMENT

See *Wheel Bearing Adjustment* in *WHEEL ALIGNMENT* section.

WHEEL ALIGNMENT SPECIFICATIONS & PROCEDURES

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

BALL JOINT CHECKING

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

REMOVAL & INSTALLATION

STRUT ASSEMBLY & UPPER CONTROL ARM

Removal – 1) Remove 3 self-locking nuts securing top of strut assembly to inner fender panel in engine compartment. Raise and support vehicle. Remove front wheel.

2) Unscrew flange locknut and use suitable tool to separate upper control arm ball joint from steering knuckle. Remove self-locking nuts holding upper control arm pivot shaft to body (access in engine compartment).

3) Remove strut lower mounting bolt and maneuver strut assembly and upper control arm out of vehicle.

Disassembly – 1) Place strut assembly in vise and attach coil spring compressor. Apply enough tension to coil spring to allow removal of top self-locking nut, washer and mounting plate.

2) Release spring compressor. Remove upper spring retainer, coil spring and components from piston rod.

3) Mark position of lower spring retainer to shock absorber for proper reassembly reference.

Reassembly – 1) Reassemble strut assembly components in reverse order of disassembly. If replacing coil spring, be sure proper weight class springs are used.

2) If replacing lower spring retainer, coil spring or shock absorber, position of spring retainer to shock absorber must be determined. Install assembly in vehicle by attaching upper retainers. Position upper end of spring against upper retainer stop. Position lower retainer and turn until against stop. Mark position.

3) Remove strut assembly back to vise and complete reassembly.

Installation – To install, reverse removal procedure.

TIGHTENING SPECIFICATIONS

Application	Ft. Lbs. (mkg)
Upper Control Arm-to-Body	101 (14)
Lower Control Arm-to-Body	
Front	61 (8.5)
Rear	87 (12)
Stabilizer Bar-to-Body	33 (4.6)
Stabilizer Link Nut	61 (8.5)
Ball Joints-to-Knuckle	61 (8.5)