

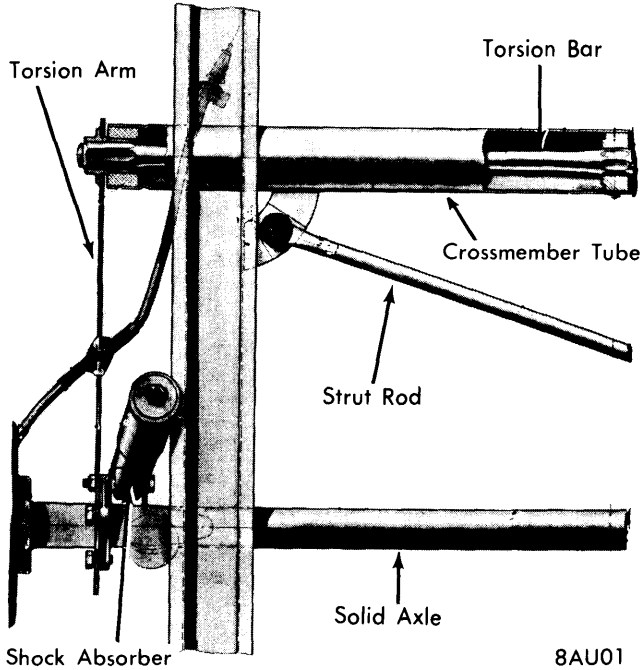
Rear Suspension

1970-72 AUDI S90

S90 (1970-72)

DESCRIPTION

Torsion bar type rear suspension utilizing a solid axle. Torsion bar is mounted in rear chassis crossmember tube and anchored in center of tube. Torsion arms are connected to ends of torsion bar at front and to solid axle at rear. A strut rod is mounted between one end of solid axle and opposite end of crossmember to compensate for lateral movement of axle.



REAR SUSPENSION COMPONENTS

ADJUSTMENTS

WHEEL BEARING ADJUSTMENT

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

REMOVAL & INSTALLATION

SOLID AXLE

Removal – Raise rear of vehicle, support with safety stands and remove rear wheels. Disconnect both rear brake flex lines. Raise axle slightly with a jack and disconnect both lower shock absorber mounts. Disconnect strut rod from axle. Disconnect parking brake cable. Remove bolts securing torsion arms to rear axle and remove rear axle.

Installation – To install rear axle, reverse removal procedure. Make sure shock absorbers are positioned with offset side of lower mount toward center of vehicle. Make sure that parking brake cable on torsion arm does not rub against tire and wheel. Bleed brake hydraulic system.

STRUT ROD

Removal – Raise vehicle by jacking up under crossmember tube. Support with safety stands. Disconnect both ends of strut rod and remove from vehicle.

Installation – To install strut rod, reverse removal procedure. Lubricate bolts with Molykote paste before installing.

TORSION ARMS

Removal – Raise vehicle by jacking up under crossmember. Position safety stands under axle and remove wheels. Disconnect brake line clip and parking brake cable from torsion arm. Remove torsion arm retaining screw from center of crossmember tube. Drive torsion arm inward toward center of vehicle. Remove snap ring from torsion arm. Disconnect shock absorber and torsion arm from axle. Pull torsion arm from bar.

Installation – To install torsion arm, reverse removal procedure. Make sure parking brake cable does not rub against wheel. Bleed brake hydraulic system.

TORSION BAR

Removal – Remove rear axle and torsion arms as previously outlined. Remove lower chrome strip from both sides of vehicle. Remove inner and outer covers from front portion of each rear fender. Mark position of spring in tube as to right and left side. Drive spring out of tube using a long bar of soft material.

Installation – Coat torsion bar with a suitable lubricant (Valvoline Tectyl 506) before installing. Mark position of anchor screw hole in center of bar on end of bar so that bar can be positioned correctly when inserted in crossmember. With bar properly inserted in tube, install anchor screw and tighten lock nut. Reverse removal procedure to complete installation.

TIGHTENING SPECIFICATIONS

Application	Ft. Lbs.
Torsion Arm-to-Axle.....	32
Shock Absorber Lower Mount.....	32
Strut Rod Mounts	32