

Steering Gears & Linkage

AUDI 4000 RACK & PINION

DESCRIPTION

Steering system is a direct-acting rack and pinion gear mounted to crossmember and connected to tie rods by a bracket. The rods are connected to steering knuckle by ball joints.

ADJUSTMENT

RACK ADJUSTMENT

1) Loosen lock nut on steering gear cover. Hand tighten adjusting screw until it touches thrust washer. Hold screw in position and tighten lock nut.

2) If steering is too tight or does not self center, readjust. If gear rattles when driven, adjustment is too loose.

CAUTION: Do not turn gear hard against either lock when vehicle is raised off ground or damage may result.

REMOVAL & INSTALLATION

STEERING GEAR

Removal

1) Remove both tie rod mounting bolts from rack, pry tie rods off steering gear.

2) Use a screwdriver to push cap from engine compartment to inside of vehicle, then loosen bottom steering column mounting bolt and pry off clamp. Also remove seal ring.

3) Drive bottom of column off gear using a brass mandrel. Remove gear mounting bolts from body. Turn wheels to right lock and remove steering gear through opening in right wheel well.

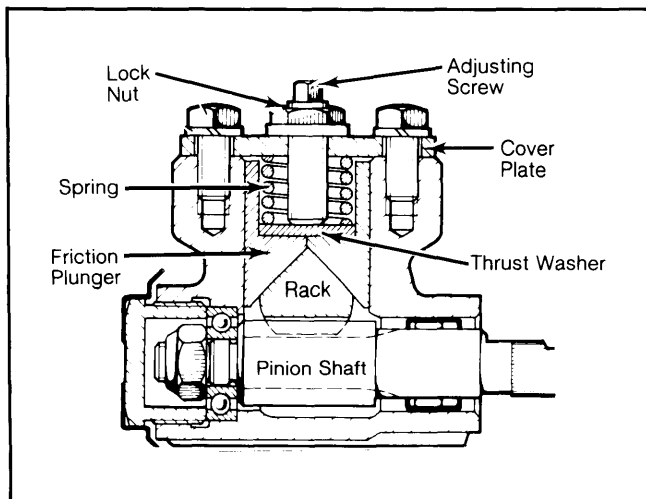
Installation

1) Install steering gear to vehicle.

2) Install tie rods to tie rod bracket, then install bracket to steering drive pawl. Install steering drive pawl to steering gear rack. Install seal ring.

3) Install clamp and attach column to steering gear. Push cap from inside vehicle to steering gear.

Fig. 1: Cross Sectional View of Pinion Shaft with Rack Adjustment



STEERING DAMPER

NOTE: Replacement of steering damper is the only service procedure recommended. Do not attempt repairs on this unit.

OVERHAUL

NOTE: Manufacturer does not recommend overhaul of this rack and pinion steering unit. If unit is determined defective, replace as an assembly.

Fig. 2: Exploded View of Audi 4000 Rack and Pinion Assembly

