

BMW

BMW 4 Cyl.
2002
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BMW 6 Cyl.
3.0
Bavaria

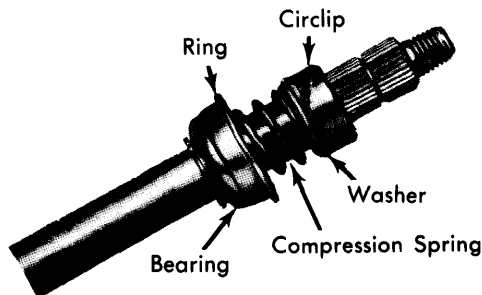
DESCRIPTION

Steering column consists of a steering wheel, horn control, turn signal switch, headlight dimmer switch, and an anti-theft steering column lock which operates in conjunction with the ignition switch. On 4 cylinder models, column is connected to steering gear by a flexible coupling. On 6 cylinder models with two-section steering shaft, lower shaft is connected to steering gear by a universal joint. The upper shaft is connected by a universal joint, through a flexible coupling, to the lower shaft.

REMOVAL & INSTALLATION

STEERING COLUMN SHAFT

4 Cyl. Models — Remove steering wheel, lower cover from steering column, and turn signal switch. Disconnect steering shaft from flexible coupling at steering gear, and remove shaft. From upper end of shaft, remove collar, snap ring, washer, compression spring, spring seat, bearing, and retaining ring. To install, reverse removal procedure.

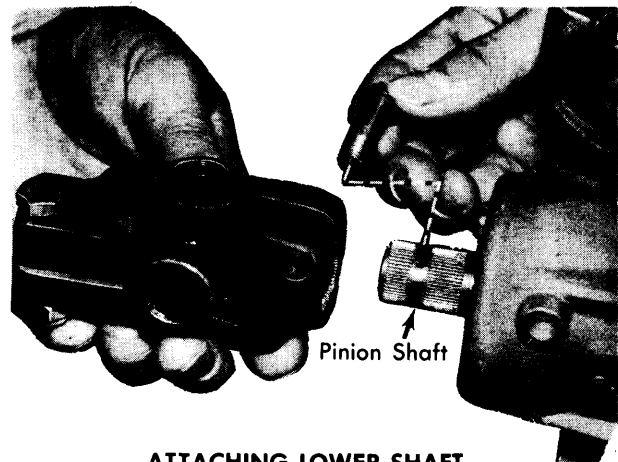


UPPER COLUMN BEARING

Fig. 1 Upper Column Bearing Installed on Mainshaft

6 Cyl. Models — 1) Remove upper shaft as follows: Remove steering wheel, lower cover from steering column, and turn signal cancelling cam. From upper end of shaft, remove collar, retainer ring, washer, compression spring, spring seat, and bearing. Remove cover (top section) from bearing block of accelerator pedal. Disconnect shaft from universal joint. Remove retainer ring and collar from lower end of shaft, then drive out lower support bearing. Remove shaft.

2) Remove lower shaft as follows: Mark lower end of shaft and universal joint for reassembly reference, and remove clamp bolt from "U" joint. Remove lower cover from steering column. Remove bolts retaining lower shaft to flexible coupling. Push shaft forward and remove from flexible coupling. Pull shaft upward out of lower universal joint and remove. Inspect plastic bushing at top of lower shaft and its sleeve in bearing block. Replace if worn or damaged. To install, reverse removal procedure.



ATTACHING LOWER SHAFT

Fig. 2 Attaching Lower Shaft to Pinion Shaft