

Steering Columns

1970-73 AUDI

S90 (1970-72)
100 LS (1970-73)
Fox (1973)

NOTE — Some models have been equipped with safety type joint and plug-in steering columns, while other use Hardy disc type. Removal and installation procedures are the same for both types.

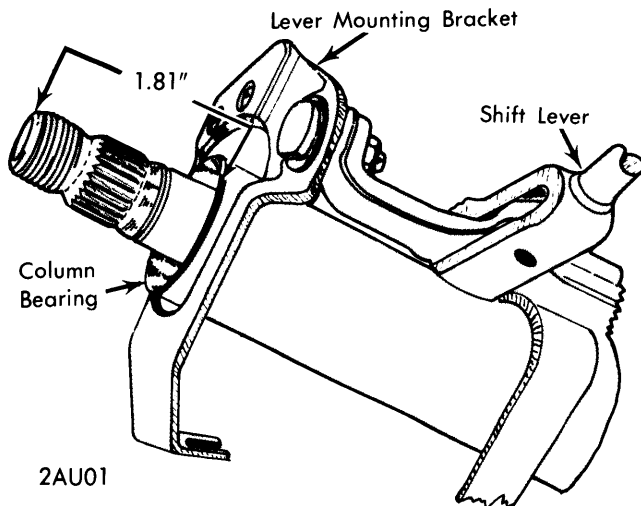
REMOVAL & INSTALLATION

S90

Removal (1970-72) — 1) Remove steering wheel and components. Detach blower duct (beside column), unscrew hood release cable button and blower jet, and remove instrument panel trim.

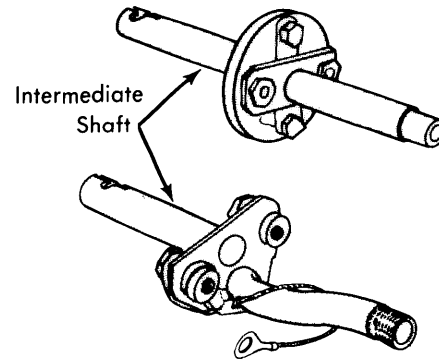
2) Separate column casing (ensure ignition is off and key removed). Disconnect wiring to directional signal switch, remove switch from column. Remove shift lever mounting bracket, then pull spacer, spring and washers from column. Unbolt column brackets at instrument panel.

3) Loosen bolt on column clamp (above rubber boot) and slide upward. Replace ignition key and turn to "DRIVE" position (to unlock column), then pull column tube off end plate. Remove end plate. Remove top and bottom hex screws from Hardy disc and detach ground wire. Remove column.



2AU01
STEERING SHAFT — S90

Installation (1970-72) — To install, reverse removal procedure, noting the following: Use new lock plates. Ensure column clamp bolt is on top of column. When replacing end plate, torque bottom bolts first. Leave mounting bracket loose until outer column tube is positioned with 1.81" (25.6 mm) between column bearing and upper end of column. See illustration. Set rack in center position and adjust turn signal switch cancelling catch with protrusion at center of column housing cutout.



2AU02

STEERING COLUMN COUPLINGS
(HARDY DISC — TOP; SAFETY TYPE — BOTTOM)

100LS

Removal (1970-Early 1971) — 1) Remove instrument panel trim from around column. Remove steering wheel. Detach slip ring (screws on left side of column face and behind ignition switch). Disconnect lead from slip ring.

2) Unbolt gearshift from bracket and ignition switch casing from panel. Remove directional switch from column and disconnect wiring from switches. Remove retaining bolt from column clamp above universal joint, then unbolt column bracket from panel. Pull column upward. Further disassembly of column may be made if necessary.

Installation (1970-Early 1971) — To install, reverse removal procedure.

Removal (Late 1971 & Later) — 1) Remove lower instrument panel trim from around steering column. Remove steering wheel. Unscrew and remove horn slip ring, column casing and horn ground contact. Pull three washers from stop of steering column. Detach electrical leads of column switches; remove switches.

2) Loosen support bolt from bracket below instrument panel. Note position of plastic slide pieces. In engine compartment, detach lower end of steering column from pinion shaft by removing pinch bolt. Dislodge rubber grommet from around column in firewall. Lift column assembly out of vehicle. **CAUTION** — This is a telescopic safety steering column and must be handled with care to prevent accidental collapsing of column.

Installation (Late 1971 & Later) — When installing column, ensure plastic pieces are in place when mounting column to instrument panel. Be sure grommet is in place on end of support tube. Replace grommet in firewall after filling groove in rubber cover with suitable transmission grease (TL-VW 757).

FOX

Removal — 1) Pull off steering wheel horn control by hand. Disconnect ground wire at horn button. Remove steering wheel mounting nut and pull off steering wheel. Unscrew switch base cap and disconnect plugs at both lever switches and horn contact ring.

1970-73 AUDI (Cont.)

2) Remove upper and lower instrument panel trim from around column. Unscrew bearing flange at bottom of steering column. Remove steering shaft-to-pinion pinch bolt (in engine compartment), pry off clip, and drive steering column off pinion (use a brass mandrel).

3) Remove upper instrument panel trim to make shear screws accessible. *NOTE* — These screws are also upper steering column support screws. Drill off heads of shear screws. Remove steering lock and allow to hang by wiring. Remove steering column.

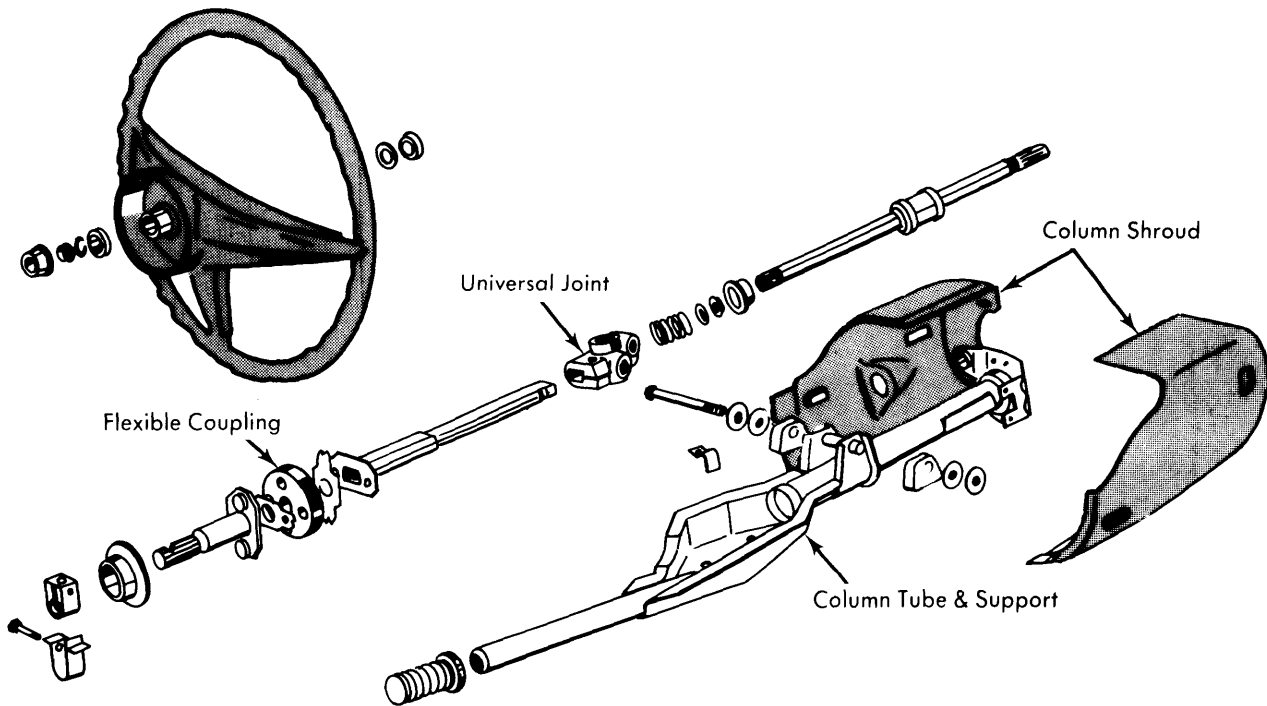
Installation -To Install, reverse removal procedures, noting the following; Column has two bores for securing and locating steering lock; casting on clamp portion of lock must engage

with LOWER bore in column tube. Always use self-locking nuts when installing pinch bolt at pinion. When replacing column bearing flange, longer portion of flange must be toward passenger's side.

OVERHAUL

FOX

Remove stop washer from top end of column, then remove plain washers, spring, and support. Slide column down into tube in order to gain access to column bearing. *NOTE* — After column is reassembled and installed, check for proper operation of lock mechanism *BEFORE* shearing heads of lock mounting screws.



AUDI STEERING COLUMN (100 SHOWN)

3AUA1