

SAAB (Cont.)

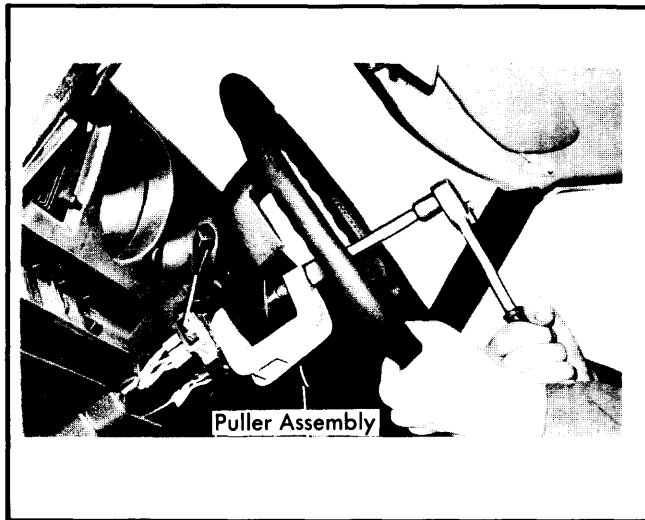


Fig. 1 Using Universal Puller Tool to Remove Steering Wheel Assembly

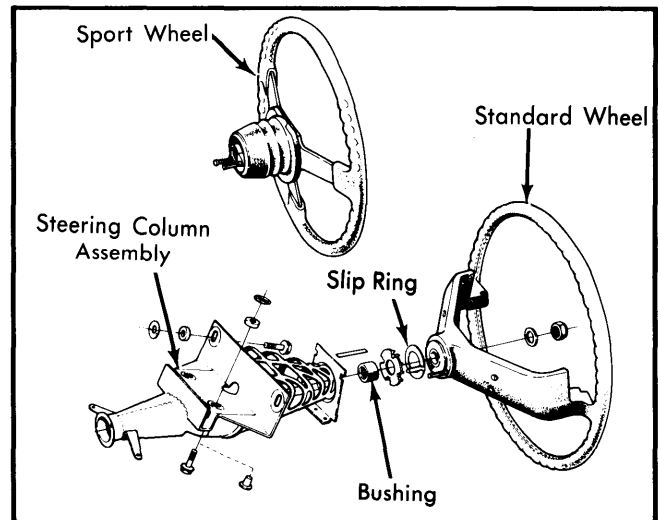


Fig. 2 Exploded View of Steering Wheel Assembly

SUBARU

DL
GL
GLF

REMOVAL & INSTALLATION

HORN PAD & STEERING WHEEL

Removal — Disconnect battery ground cable. Remove horn pad retaining screws from back side of steering wheel and disconnect electrical wiring. Remove steering column covers and horn pad. Remove steering wheel retaining nut and washer. Pull steering wheel from shaft.

Installation — To install, reverse removal procedure and note the following: After steering wheel is installed, check clearance between wheel and column cover; it should be .04-.12" (1-3 mm). If beyond this range, loosen column cover screws and adjust.

COMBINATION SWITCH

Removal — Remove steering wheel as previously described. Remove hazard warning knob from steering column. Remove 2 switch retaining screws and remove from steering column.

Installation — To install, reverse removal procedure.

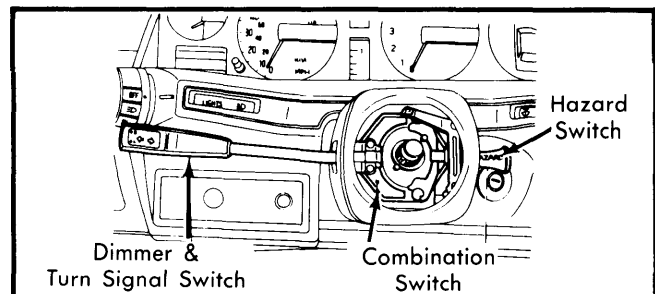


Fig. 1 View of Combination Switch

Celica
Corolla
Corona
Cressida

Land Cruiser
Pickup
Starlet
Supra
Tercel

REMOVAL & INSTALLATION

STEERING WHEEL

NOTE — Steering wheel removal procedure is a general one. It should be noted that all steps may not apply to every model.

CAUTION — Some models are equipped with collapsible type steering, DO NOT apply excessive pressure or impact to mainshaft.

TOYOTA

Removal — 1) Disconnect battery ground. From lower portion of steering column, disconnect any electrical wiring for indicator lights, horn or dimmer switch.

2) Remove retaining screws from behind steering wheel (if required). On some models, pad will pry off. Remove horn wires (if required).

3) Remove steering wheel mounting nut and washer (if equipped), then using a puller, remove steering wheel from shaft. See Fig. 1.

Installation — To install, reverse removal procedure.

Steering Wheel & Column Switches 11-15

TOYOTA (Cont.)

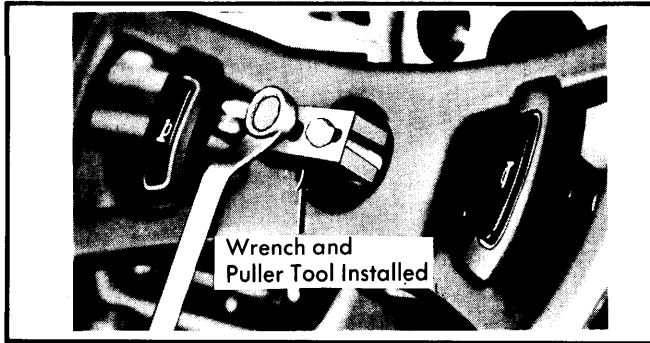


Fig. 1 Using Puller to Remove Steering Wheel

COMBINATION SWITCH

Removal — After removing steering wheel as previously outlined, combination switch may be removed by detaching steering column covers, removing retaining screws from face of switch assembly and unplugging necessary electrical connectors.

Installation — To install, reverse removal procedure and make sure all electrical connections are properly made. Check cancelling operation of turn signal switch.

COLUMN LOCK & IGNITION SWITCH

Removal — 1) Disconnect battery ground. Remove steering wheel as previously outlined.

NOTE — Steering wheel removal is optional if only the ignition switch portion is being removed. Removal of wheel makes access to this operation easier.

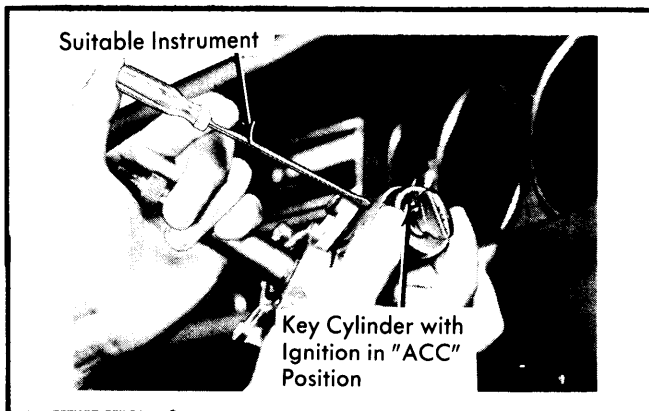


Fig. 2 Disengaging Key Cylinder from Position on Mainshaft

2) Remove screws mounting upper and lower column covers and disconnect any electrical couplings not detached during steering wheel removal.

NOTE — On some models, access to ignition switch for its removal is gained by removing lower cover only. It is easier to perform this operation, however, by removing both cover halves.

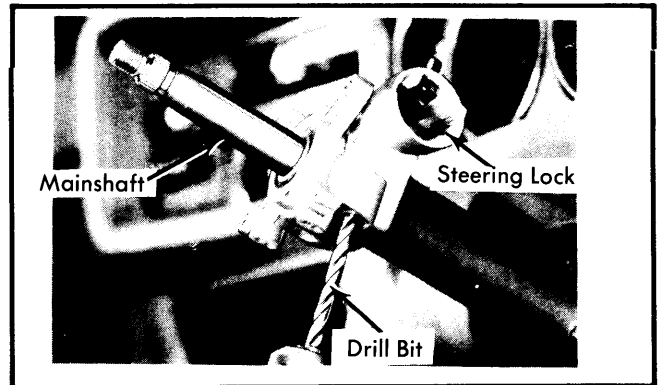


Fig. 3 Drilling Out Shear Head Bolt to Remove Steering Lock from Shaft

3) Remove turn signal switch assembly (only if column lock assembly is being removed). Remove mainshaft bearing retainer and snap ring (if required). Insert key and turn ignition to "ACC" position. Using a small pointed tool to press down stop pin on side of cylinder, free mechanism and pull cylinder from housing. See Fig. 2.

4) On Celica and Supra models, drill out shear bolts holding lock mechanism to steering column. On all other models, lock is part of upper column bearing assembly. Remove bolts mounting upper bearing assembly and slide off column.

Installation — 1) To install column lock and switch assembly, reverse removal procedure. Tighten lock housing shear-head bolts (new) until the heads shear off.

2) Fit key cylinder so ignition switch and cylinder will be aligned in "ACC" position. Insert into housing and check for proper locking operation and key movement.

3) Replace all other components (combination switch assembly, bearing retainer, steering wheel) as removed. Check for proper turn signal switch cancelling operation and smoothness of steering wheel movement.

TRIUMPH

TR7
TR8

REMOVAL & INSTALLATION

STEERING WHEEL

Removal — Disconnect battery ground cable. Place wheels in straight ahead position. Remove steering wheel pad and

retaining nut. Mark position of steering wheel and shaft. Using a puller, remove steering wheel.

Installation — To install, reverse removal procedure.

COMBINATION SWITCH

Removal — 1) Disconnect battery. Unscrew retaining screws for column cover halves and remove covers. Remove steering wheel as previously described.