

Steering Wheel & Column Switches 12-17

SAAB (Cont.)

2) Disconnect electrical connections at base of column. Remove retaining screws and direction/wiper switch assembly.

Installation

To install, reverse removal procedures. Directional signal must be properly aligned on column.

Fig. 1: Using Puller to Remove Steering Wheel

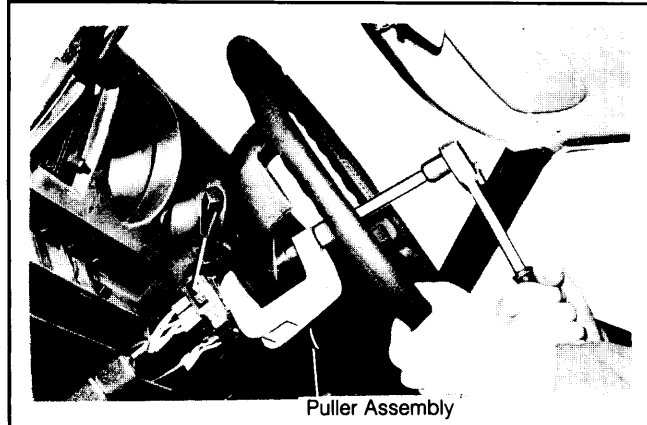
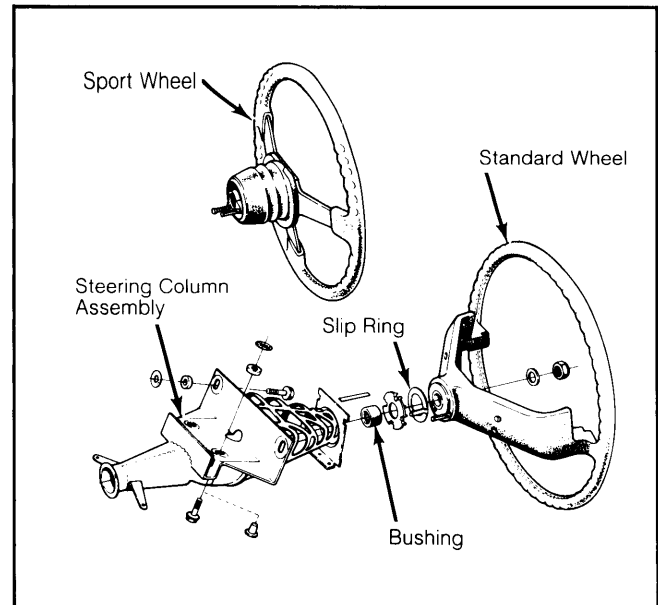


Fig. 2: Exploded View of Steering Wheel Assembly



SUBARU

REMOVAL & INSTALLATION

HORN PAD & STEERING WHEEL

Removal

1) Disconnect battery ground cable. Remove horn pad retaining screws from back side of steering wheel and disconnect electrical wiring.

2) Remove steering column covers and horn pad. Remove steering wheel retaining nut and washer. Pull steering wheel from shaft.

Installation

To install, reverse removal procedures. After steering wheel is installed, check clearance between wheel and column cover. Clearance should be .04-.12" (1-3 mm). If beyond this range, loosen column cover screws and adjust.

COMBINATION SWITCH

Removal

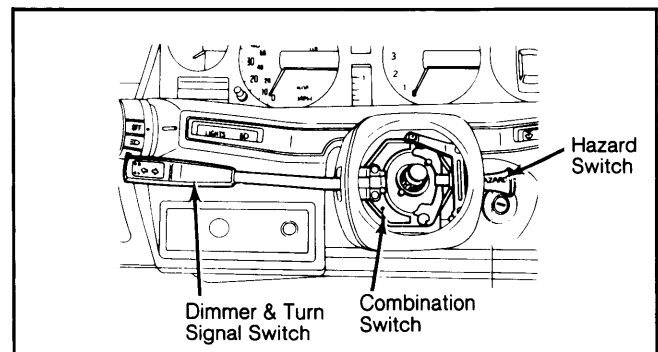
Remove steering wheel as previously described. Remove hazard warning knob from steering

column. Remove switch retaining screws. Remove switch from steering column.

Installation

To install, reverse removal procedures.

Fig. 1: View of Combination Switch With Steering Wheel Removed



TOYOTA

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.

Removal

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

12-18 Steering Wheel & Column Switches

TOYOTA (Cont.)

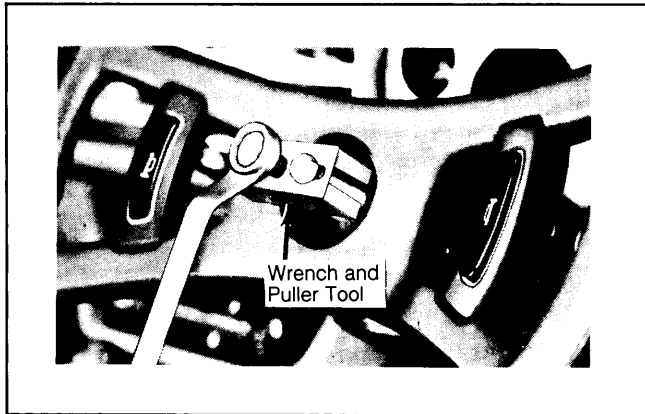
2) Remove retaining screws from behind steering wheel (if required). On some models, pad will pry off. Remove horn wires (if required).

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

Installation

To install, reverse removal procedures.

Fig. 1: Using Puller to Remove Steering Wheel



Front wheels should be in straight-ahead position.

COMBINATION SWITCH

Removal

1) After removing steering wheel as previously outlined, combination switch may be removed by detaching steering column covers.

2) Remove retaining screws from face of switch assembly. Unplug necessary electrical connectors.

Installation

To install, reverse removal procedures. Make sure all electrical connections are properly made. Check cancelling operation of turn signal switch.

COLUMN LOCK & IGNITION SWITCH

Removal

1) Disconnect battery cable. 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.

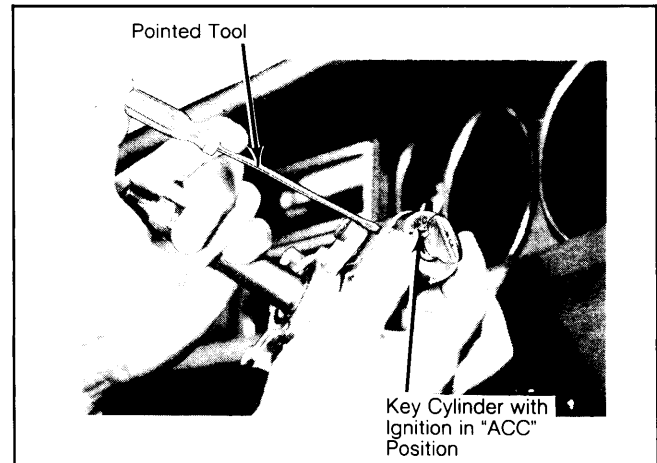
2) Remove screws retaining upper and lower column covers and disconnect any electrical couplings not detached during steering wheel removal.

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.

3) Remove turn signal switch assembly (only if column lock assembly is being removed). Remove mainshaft bearing retainer and snap ring (if required).

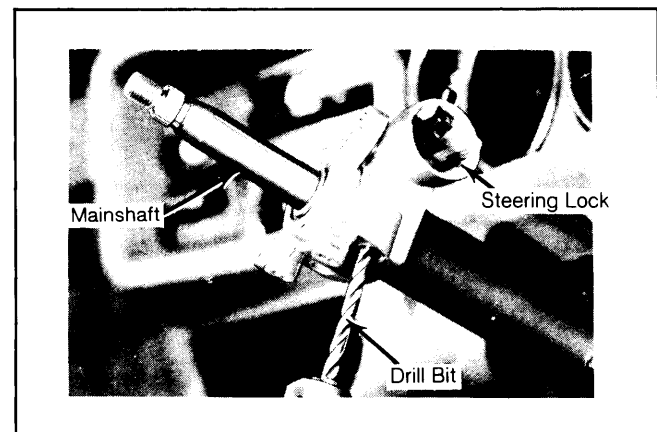
4) Insert key and turn ignition to "ACC" position. Using a pointed tool to press down stop pin on side of cylinder, free mechanism and pull cylinder from housing. See Fig. 2.

Fig. 2: Disengaging Key Cylinder from Position on Mainshaft



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

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



Installation

1) To install, reverse removal procedures. 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 cancelling operation and smoothness of steering wheel movement.