

RENAULT (Cont.)

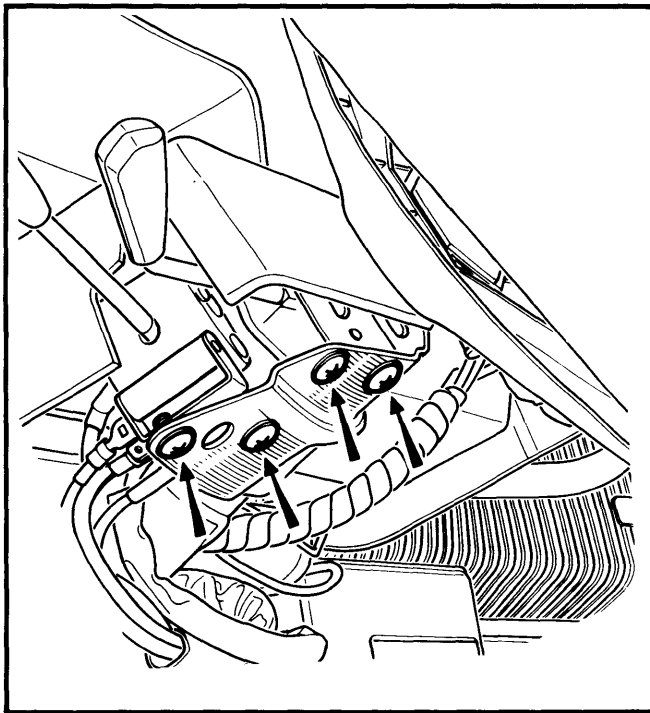


Fig. 2 Location of Switch Assembly Retaining Screws

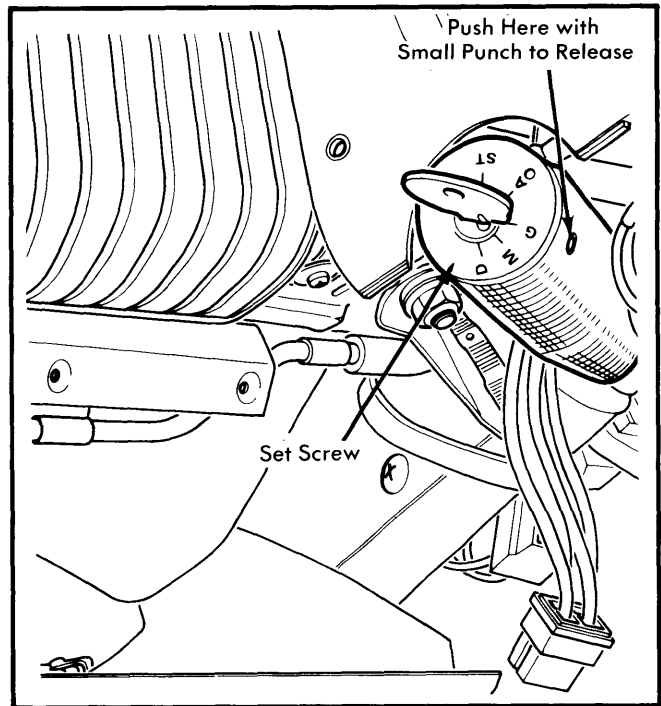


Fig. 3 Ignition Switch Removal

SAAB

99
900

REMOVAL & INSTALLATION

HORN CONTROL & STEERING WHEEL

Removal — Disconnect battery ground cable. Remove bottom cover retaining screws and cover. On standard steering wheel, remove retaining screws from behind steering wheel, then remove pad and horn contact. On 3-spoke wheel, lift pad from spokes, then reach under and disconnect horn leads while supporting pad.

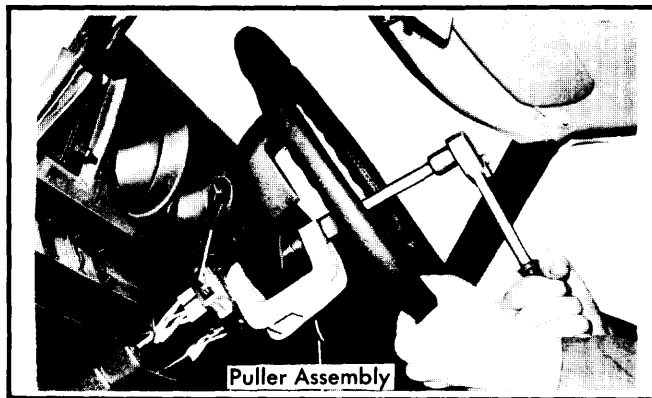


Fig. 1 Using a Universal Puller Tool to Remove Steering Assembly

2) Mark position of steering wheel to shaft and remove retaining nut and washer. Remove wheel from shaft with suitable wheel puller.

Installation — To install, reverse removal procedure.

COMBINATION SWITCH

Removal — Disconnect battery ground cable. Remove steering wheel shrouding and lower instrument panel shroud. Disconnect electrical connections at base of column. Remove retaining screws and direction/wiper switch assembly.

Installation — To install, reverse removal procedure and note: Directional signal must be properly aligned on column.

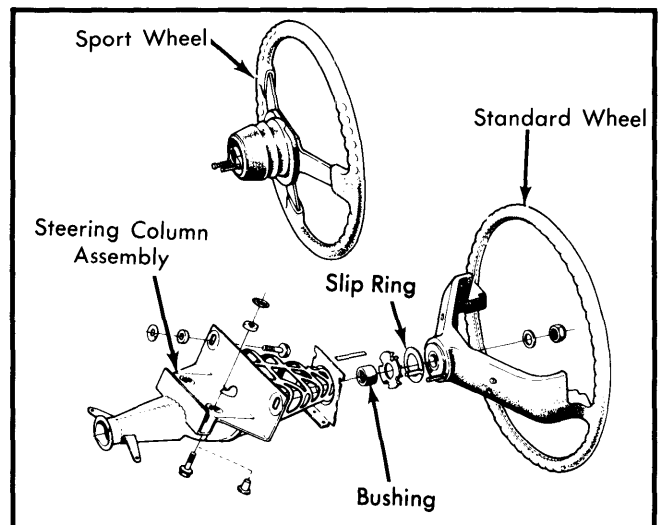


Fig. 2 Exploded View of Steering Wheel Assembly

10-14 Steering Wheel & Column Switches

SUBARU

1600
1800

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

Remove steering wheel as previously described. Remove hazard warning knob from steering column. Remove 2 switch retaining screws and remove from steering column. To install, reverse removal procedure.

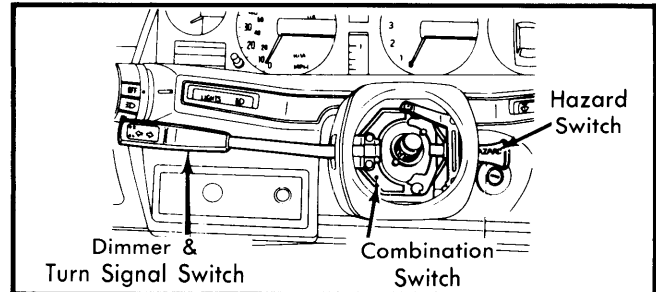


Fig. 1 View of Combination Switch

TOYOTA

Celica
Corolla
Corona
Cressida

Land Cruiser
Pickup
Supra
Terrel

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. 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.

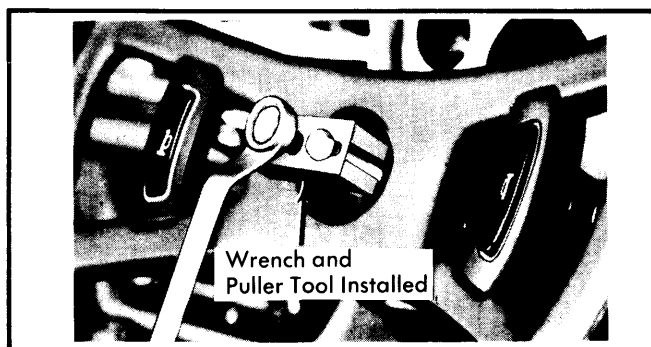


Fig. 1 Using Puller to Remove Steering Wheel

Installation — To install, reverse removal procedure.

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.

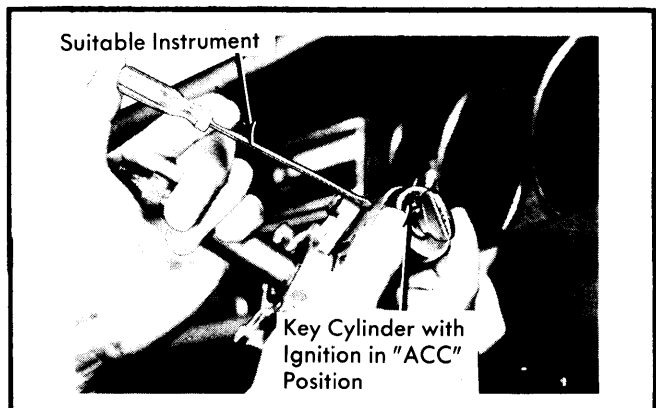


Fig. 2 Disengaging Key Cylinder from Position on Mainshaft