

Steering Wheel & Column Switches 10-17

TOYOTA

Celica
Corolla
Corona
Cressida
Pickup
Land Cruiser

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 screws holding steering wheel protective pad or plastic cover. On some models, pad will pry off.

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

Installation — To install, reverse removal procedure.

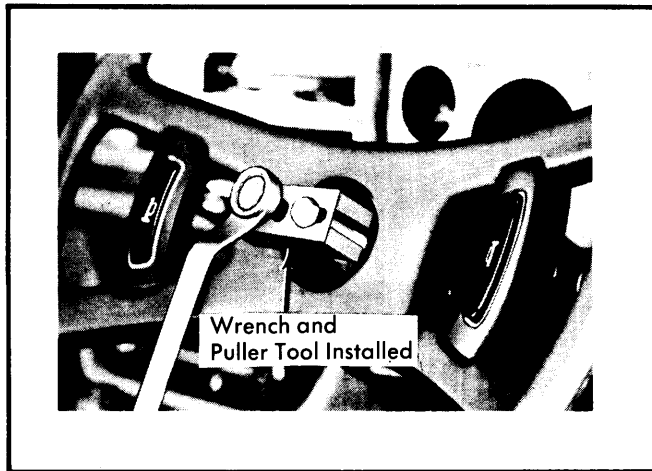


Fig. 1 Using Puller to Remove Steering Wheel

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.

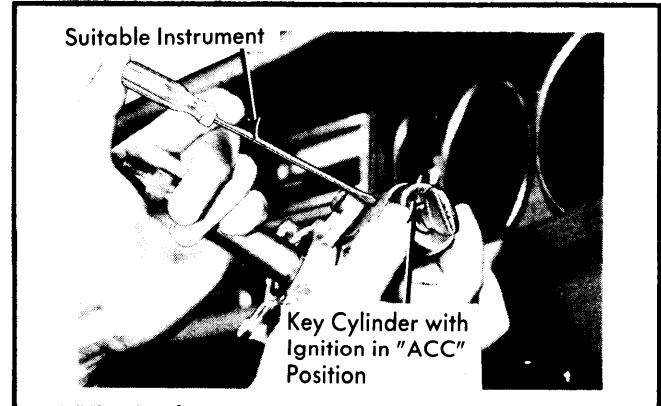


Fig. 2 Disengaging Key Cylinder from Position on Mainshaft

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.

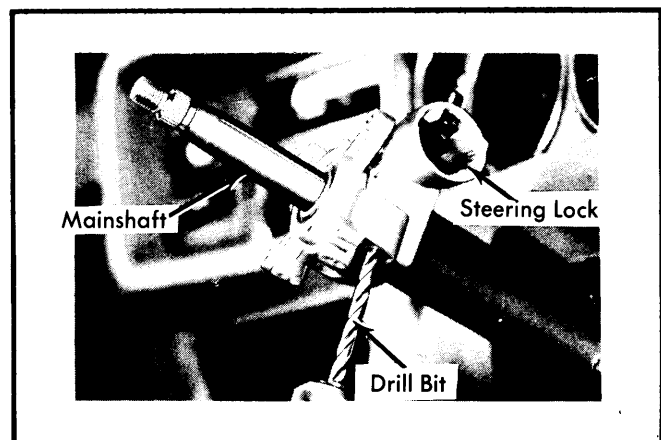


Fig. 3 Drilling Out Shear Head Bolt to Remove Steering Lock from Shaft

3) Remove turn signal switch assembly as previously described. (required only if column lock assembly is being removed).

4) Remove mainshaft bearing retainer and snap ring (if required).

10-18 Steering Wheel & Column Switches

TOYOTA (Cont.)

5) Put ignition key in "ACC" position. Use a small pointed tool to press down stop pin on side of cylinder to free the mechanism. Pull cylinder from housing. (Fig. 2)

6) After removing switch cylinder, column lock may be removed as follows:

- **Except Corona & Cressida** — Drill out shear bolts holding lock mechanism around steering column.
- **Corona & Cressida** — Lock mechanism is part of upper column bearing assembly. Remove 3 bolts mounting upper bearing carrier (housing lock) and slide off assembly.

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
Spitfire

REMOVAL & INSTALLATION

STEERING WHEEL

Place wheels in straight-ahead position. Pry off steering wheel pad. Remove mounting nut. Index mark wheel and column shaft. Use puller and remove steering wheel.

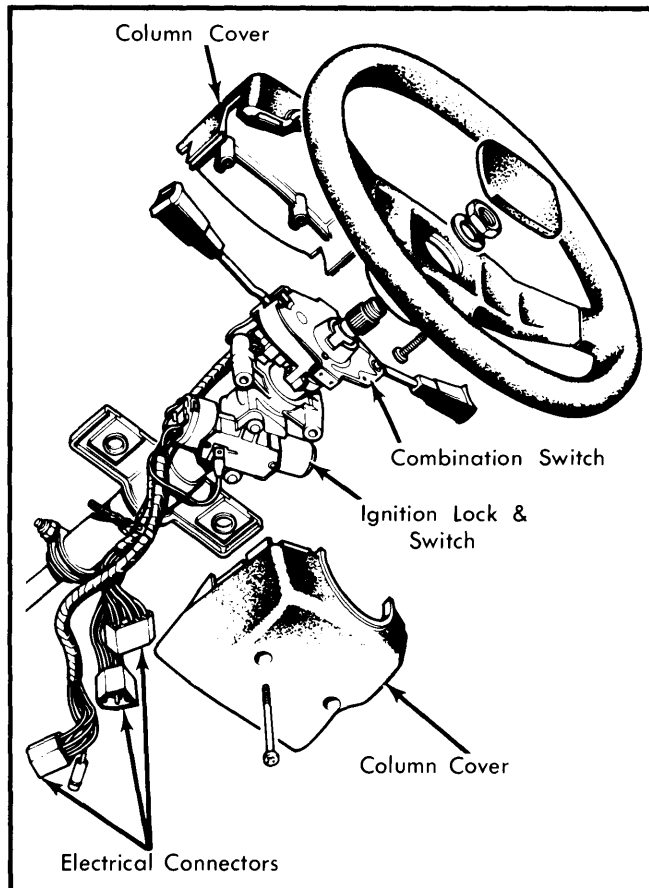


Fig. 1 TR7 Steering Wheel and Column Switches

TURN SIGNAL & WIPER SWITCHES

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

2) Note the location of all wiring harnesses. Remove the wire harness clip securing the switch harnesses. Disconnect the two harness plugs. Loosen the switch clamp screw and remove switch assembly.

3) Individual switches may be replaced at this time, but note that the two center cross-head screws are not to be removed. Switches are separated by drilling out the two retaining rivets and removing the one cross-head screw (on right side of switch face).

Installation — To install, reverse removal procedure and note: Switch assembly must engage outer column assembly. Turn signal cancel collar must align in steering wheel.

IGNITION SWITCH AND STEERING COLUMN LOCK

Removal — On Spitfire only, remove nuts and washers securing steering lock shroud and withdraw shroud and column support. On all models, center punch both shear bolts mounting steering lock to column. Using a small chisel or suitable tool arrangement, remove bolts. Disconnect electrical plug and remove steering lock.

NOTE — It is possible to remove ignition switch without taking out column lock. There are 2 set screws mounting switch assembly in column lock housing.

Installation — To install ignition switch and steering column lock, reverse removal procedure and note the following: Ensure dowel pin aligns in column drilling. Fit new shear head bolts and tighten evenly.