

# 10-14 Steering Wheel & Column Switches

## TOYOTA

Celica  
Corolla  
Corona  
Corona Mk II  
Hi-Lux 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.

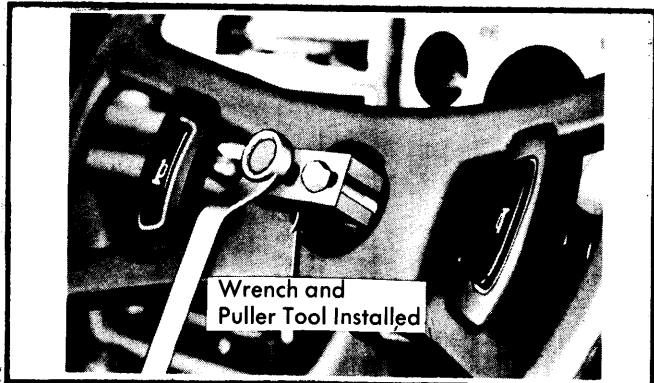


Fig. 1 Using Puller to Remove Steering Wheel

#### COMBINATION TURN SIGNAL/LIGHTING WIPER-WASHER SWITCH

**Removal** — After removing steering wheel as outlined above, combination switch assembly may be removed by detaching steering column covers, and then removing retaining screws from face of switch assembly.

**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.

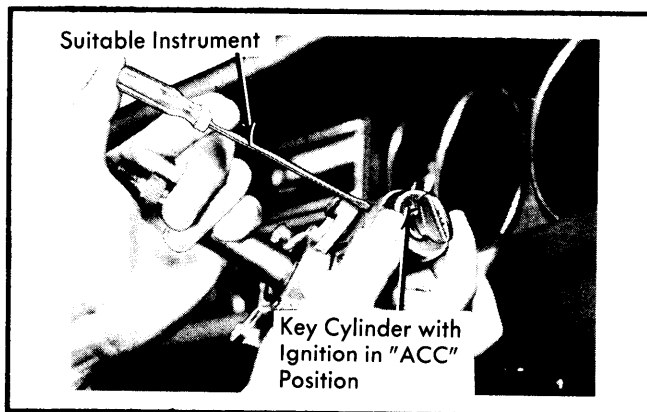


Fig. 2 Disengaging Key Cylinder from Position on Mainshaft

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.

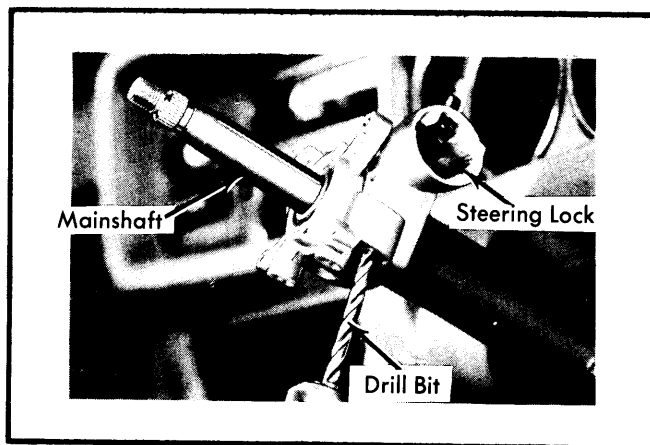


Fig. 3 Drilling Out Shear-Head Bolt to Remove Steering Lock from Shaft

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).

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, ignition lock may be removed by drilling out shear-head bolts which retain lock housing to steering 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.

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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

TR6  
TR7  
Spitfire

### REMOVAL & INSTALLATION

#### HORN CONTROL, STEERING WHEEL AND HUB

**Removal** – 1) Disconnect battery ground cable. On TR6 and Spitfire models use a flat blunt instrument and pry off steering wheel pad, then remove horn button. On TR7 models, remove the three screws from underside of steering wheel that secure steering wheel to pad.

2) On all models, place front wheels in a straight-ahead position and remove steering wheel attaching nut and washer. Index mark hub and steering mast with a scribe line to ensure proper reinstallation.

3) Using a suitable steering wheel removal tool, pull off wheel and hub assembly. Hub can be further disassembled from steering wheel on TR6 and Spitfire by removing the six attaching bolts.

**Installation** – Place steering wheel in alignment with index mark on hub and refit remaining components in reverse order.

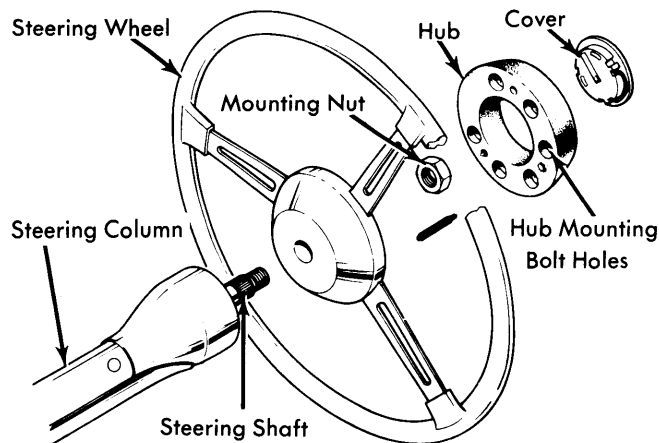


Fig. 1 Spitfire Steering Wheel Components, Others Similar

#### TURN SIGNAL & WIPER SWITCHES

**Removal, TR7 & Spitfire** – 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, TR7 & Spitfire** – To install, reverse removal procedure.

**Removal, TR6** – 1) Disconnect the battery. Inspect steering column clamp bolts and note location of two nuts behind instrument panel which have anti-theft caps. Pry off caps.

**NOTE** – Speedometer and/or tachometer removal may be necessary for access to anti-theft nuts.

2) Remove two steering column clamp bolts, nuts and washers. Remove upper half of steering column clamp.

3) Push harness cover down the column slightly to release the top clip. Pull harness cover upward to release from steering column clamp.

4) Disconnect four snap connectors. Remove two screws and withdraw two switch covers. Remove two retaining screws for each switch and remove switches.

**Installation, TR6** – To install, reverse removal procedure and note the following: Attach headlight switch harness temporarily and place in "Headlight Flash" position to check that no shorts exist. Wiring color codes match up except brown/red switch wire to blue main harness wire and brown switch wire to purple main harness wire.

#### IGNITION SWITCH AND STEERING COLUMN LOCK

**NOTE** – On Spitfire models the steering column must be removed; on TR6 models steering column must be rotated 180°; on TR7 models plastic cover around steering shaft has to come off.

**Removal** – On TR6 and Spitfire, remove nuts and washers securing steering lock shroud and withdraw shroud and column support. On all models, center punch the two shear head bolts keeping steering lock to column. Using a small chisel or suitable tool arrangement, remove bolts. Disconnect electrical plug and remove steering lock.

**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.