

STEERING COLUMN SWITCHES

1993 Toyota Celica

1993 ACCESSORIES/SAFETY EQUIPMENT
Toyota Steering Column Switches

Celica

DESCRIPTION

* PLEASE READ THIS FIRST *

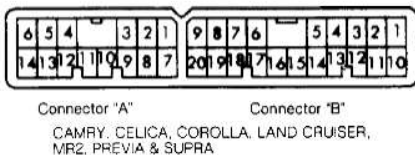
WARNING: Celica is equipped with a driver-side air bag. Before servicing steering column, disable air bag system to prevent air bag deployment. To disable air bag system, turn ignition switch to LOCK position. Disconnect negative battery cable. Wait at least 90 seconds to allow back-up power supply to discharge. For more information, see AIR BAG RESTRAINT SYSTEM article in the ACCESSORIES/SAFETY EQUIPMENT section.

TESTING

NOTE: This article TABLE contains information on headlight and taillight system relays because they are part of exterior lighting system.

COMBINATION SWITCH

NOTE: Combination switch includes switches for headlights, turn signals and windshield wipers. For testing, see appropriate component procedure.



93J84664
Fig. 1: Combination Switch Connector Terminal ID
Courtesy of Toyota Motor Sales, U.S.A. Inc.

HEADLIGHT, DIMMER & PASSING SWITCHES

With headlight switch in specified position, check continuity between specified terminals of combination switch connector. See HEADLIGHT SWITCH CONTINUITY TEST table and/or DIMMER & PASSING SWITCHES CONTINUITY TEST table. See Fig. 1. If continuity is not as specified, replace headlight switch or turn signal/dimmer switch as necessary.

HEADLIGHT SWITCH CONTINUITY TEST TABLE

Application & Switch Position	Terminals (1)	Continuity Present
Off	A2, A11, A13 & B20	No
(Next Position)	A11 & B20	Yes
Tail	A2, A11 & B20	Yes
Head	A2, A11 & A13	Yes

(1) - See Fig. 1.

DIMMER & PASSING SWITCHES CONTINUITY TEST TABLE

Application & Switch Position	Terminals (1)	Continuity Present
Celica	(2)	(2)

(1) - See Fig. 1.
(2) - See HEADLIGHT SWITCH CONTINUITY TEST table.

HEADLIGHT CONTROL RELAY

Remove relay. See HEADLIGHT CONTROL RELAY LOCATION table.
Apply battery voltage across specified terminals of relay connector.
See HEADLIGHT CONTROL RELAY TEST table. See Fig. 2. Check continuity
between other specified terminals. If there is no continuity, replace
relay.

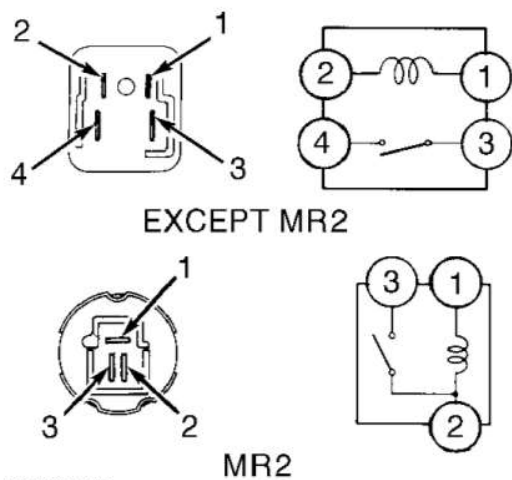
HEADLIGHT CONTROL RELAY LOCATION TABLE

Application	Location
Celica	Left Side Engine Bay, In Relay Block No. 2

HEADLIGHT CONTROL RELAY TEST TABLE (1)

Application Type	Apply Voltage To These Terminals	Continuity Between These Terminals
Celica	1 & 2	3 & 4

(1) - See Fig. 2.



93B02170
Fig. 2: Headlight Control Relay Terminal ID
Courtesy of Toyota Motor Sales, U.S.A., Inc.

TAILLIGHT CONTROL RELAY

Remove relay. See TAILLIGHT CONTROL RELAY LOCATION table.
Apply battery voltage across specified terminals of relay connector.
See TAILLIGHT CONTROL RELAY TEST table. See Fig. 3. Check continuity
between other specified terminals. If there is no continuity, replace
relay.

TAILLIGHT CONTROL RELAY LOCATION TABLE

Application	Location
Celica	Behind Left Side Of Dash In Relay Block No. 1
(1) - Theft Deterrent System.	

TAILLIGHT CONTROL RELAY TEST TABLE (1)

Application Type	Apply Voltage To These Terminals	Continuity Between These Terminals
Celica	1 & 3	2 & 4
(1) - See Fig. 3.		



93D84668
Fig. 3: Taillight Control Relay Terminal ID
Courtesy of Toyota Motor Sales, U.S.A., Inc.

HORN SWITCH

- 1) Disconnect combination switch connector. See Fig. 6. With
horn pad pressed and held down (horn ON), check continuity between
appropriate wire terminal of combination switch connector. See Fig. 1.
See appropriate wiring diagram.
- 2) If there is no continuity, repair wiring or replace
components as necessary. Components include horn pad and contact pin,
slip ring and spiral cable (with air bag). If there is continuity,
check for open in horn circuit, faulty horn or faulty horn relay. See
HORN RELAY LOCATION table.

HORN RELAY LOCATION TABLE

Application	Location
Celica	Right Side Engine Bay, In Relay Block No. 5

IGNITION SWITCH

Disconnect ignition switch connector. With ignition switch in
specified position, check continuity between specified terminals of
ignition switch connector. See IGNITION SWITCH CONTINUITY TEST table.
See Fig. 4. If continuity is not as specified, replace ignition
switch.

IGNITION SWITCH CONTINUITY TEST TABLE

Application & Switch Position	Terminals (1)	Continuity Present
Lock	2, 3, 4, 6, 7, 9 & 10	No
Accessory	3 & 4	Yes
On	2, 3 & 4; 9 & 10	Yes
Start	2, 4 & 7; 6, 9 & 10	Yes

(1) - See Fig. 4.



93184671
Fig. 4: Ignition Switch Connector Terminal ID
Courtesy of Toyota Motor Sales, U.S.A., Inc.

TURN SIGNAL SWITCH

Disconnect combination switch connector. See Fig. 6. With turn signal switch in specified position, check continuity between specified terminals of combination switch connector. See TURN SIGNAL SWITCH CONTINUITY TEST table. See Fig. 1. If continuity is not as specified, replace turn signal switch.

TURN SIGNAL SWITCH CONTINUITY TEST TABLE

Application & Switch Position	Terminals (1)	Continuity Present
Left	A1 & A5	Yes
Neutral	A1, A5 & A8	No
Right	A1 & A8	Yes

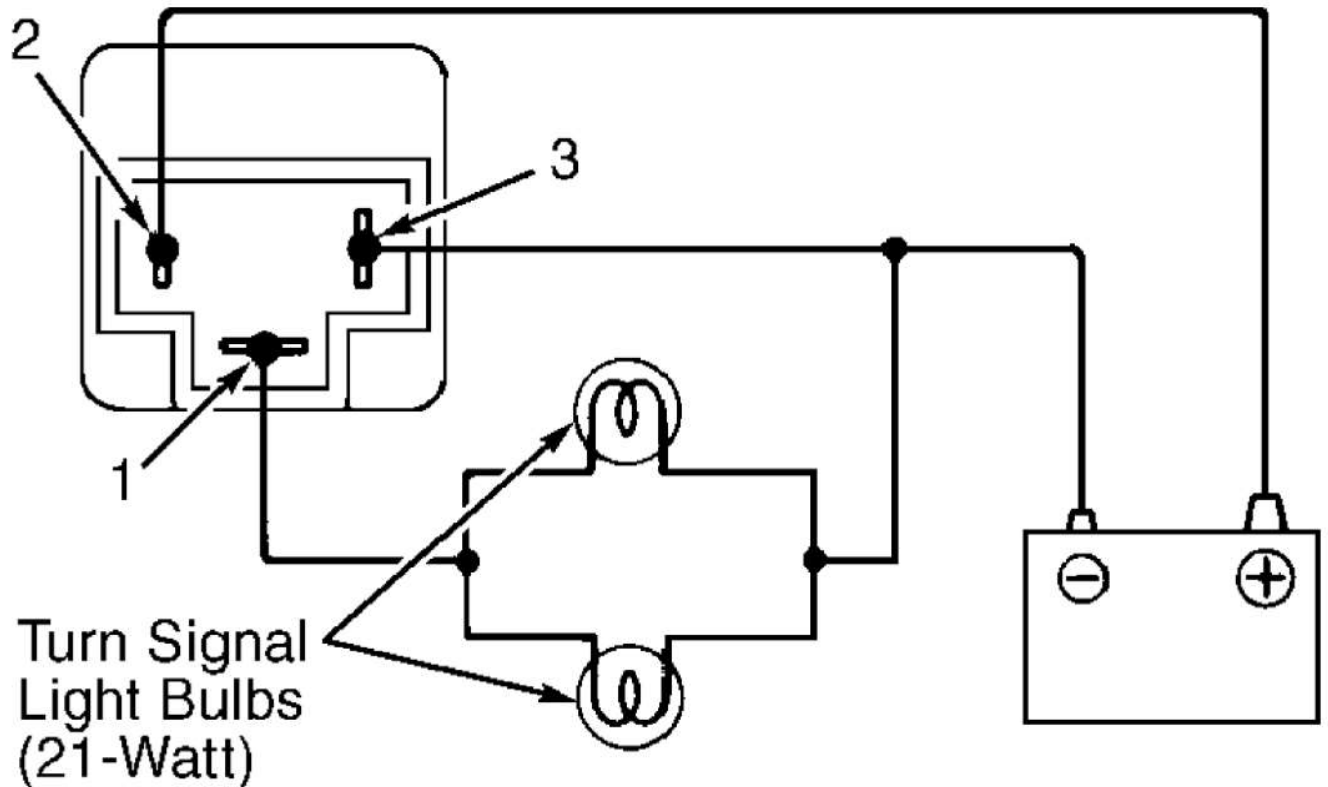
(1) - See Fig. 1.

TURN SIGNAL FLASHER

Remove turn signal flasher. See TURN SIGNAL FLASHER LOCATION table. At turn signal flasher terminals, connect battery positive lead to terminal No. 2. See Fig. 5. Connect battery negative lead to terminal No. 3. Connect 2 turn signal bulbs in parallel between terminal No. 1 and battery negative terminal. Replace turn signal flasher if bulbs do not flash 60-120 times per minute.

TURN SIGNAL FLASHER LOCATION TABLE

Application	Location
Celica	Behind Left Kick Panel, In Relay Block No. 1



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Fig. 5: Testing Turn Signal Flasher
Courtesy of Toyota Motor Sales, U.S.A., Inc.

WIPER/WASHER SWITCH

NOTE: See appropriate WIPER/WASHER SYSTEM article in the ACCESSORIES/SAFETY EQUIPMENT section.

REMOVAL & INSTALLATION

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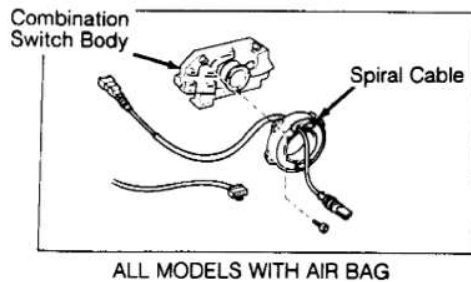
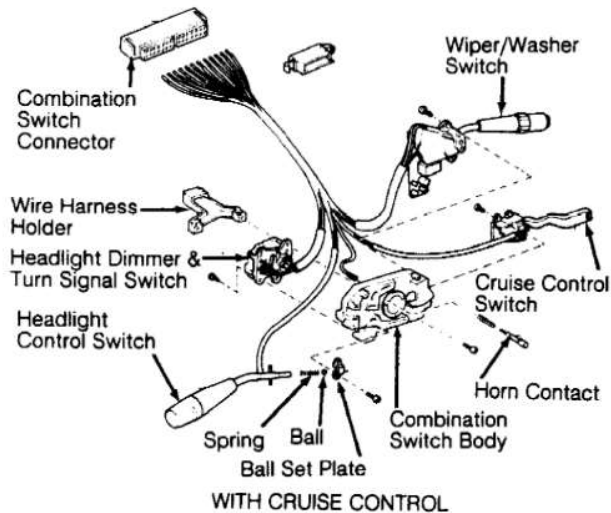
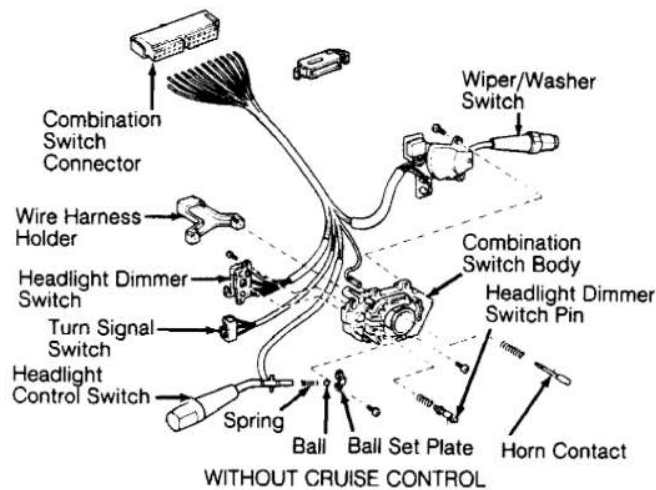
WARNING: Celica is equipped with a driver-side air bag. Before servicing steering column, disable air bag system to prevent air bag deployment. To disable air bag system, turn ignition switch to LOCK position. Disconnect negative battery cable. Wait at least 90 seconds to allow back-up power supply to discharge. For more information, see AIR BAG RESTRAINT SYSTEM article in the ACCESSORIES/SAFETY EQUIPMENT section.

COMBINATION SWITCH

1) Remove steering wheel. See STEERING WHEEL. Remove upper and lower steering column covers (it may be necessary to first remove lower finish panel from instrument panel). Disconnect combination switch connector. See Fig. 6.

2) On vehicles with cruise control switches on steering wheel, disconnect cruise control electrical connector(s) from slip ring. Remove slip ring from combination switch.

3) Remove wire ties securing combination switch wiring harness to column. Remove screws securing combination switch to steering column. Remove combination switch. To install, reverse removal procedure.



93J02174

Fig. 6: Exploded View Of Combination Switch
Courtesy of Toyota Motor Sales, U.S.A., Inc.

IGNITION SWITCH

1) Disconnect negative battery cable. Remove upper and lower steering column covers (it may be necessary to first remove lower instrument panel trim panel). Remove outer plastic trim cover from lock cylinder assembly (if equipped).

2) Disconnect ignition switch electrical connector(s). Remove screw(s) retaining ignition switch to lock cylinder. Remove ignition switch from lock cylinder. To install, reverse removal procedure.

STEERING WHEEL

Removal

1) Ensure front wheels are in straight-ahead position. Turn ignition switch to LOCK position. Remove key. Disconnect negative battery cable. Remove 2 screw covers from outer sides of steering wheel. Using Torx Wrench (T30), loosen 4 horn pad screws until screw head is snug against screw case. See Fig. 7.

2) Carefully pull steering wheel pad away from steering wheel enough to unlock and disconnect air bag electrical connector. DO NOT pull on electrical connector or wiring. Store air bag pad aside with pad facing upward.

3) Remove steering wheel lock nut and washer from steering shaft. Make alignment mark on steering shaft and steering wheel for installation reference. Using appropriate steering wheel puller, pull steering wheel from shaft while guiding spiral cable wire through steering wheel opening.

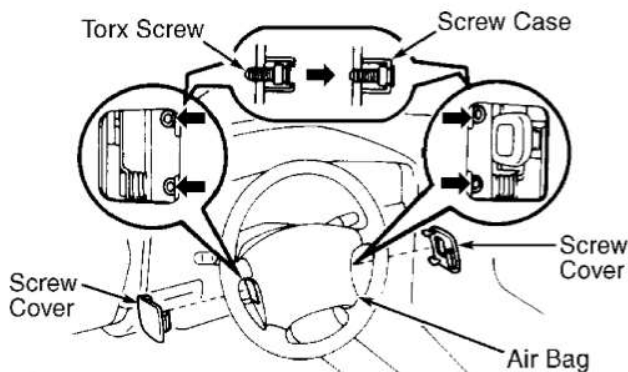
Installation

1) Ensure front wheels are in straight-ahead position. Install spiral cable on combination switch body. Turn spiral cable counterclockwise by hand until it is hard to turn. Turn spiral cable clockwise about 2 1/2 turns, aligning marks on spiral cable.

2) Install steering wheel, guiding spiral cable through opening in steering wheel. Align reference marks on steering shaft and steering wheel. Tighten steering wheel lock nut to specification. See TORQUE SPECIFICATIONS.

3) Connect air bag module electrical connector. Close connector lock. Ensure air bag module Torx screws are retracted and snug against screw case. See Fig. 7.

4) Install air bag module, ensuring wiring is not pinched and does not interfere with other moving parts. Tighten air bag module Torx screws to specification. Install screw covers. Connect negative battery cable.



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Fig. 7: Removing Air Bag From Steering Wheel
Courtesy of Toyota Motor Sales, U.S.A., Inc.

TURN SIGNAL/DIMMER SWITCH

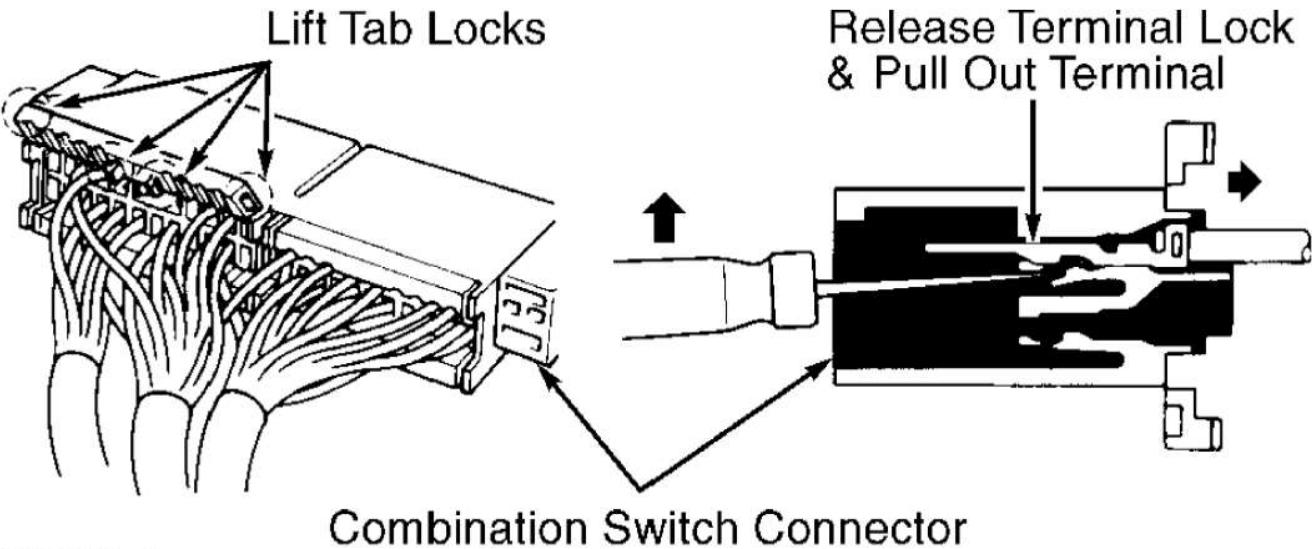
NOTE: To remove turn signal/dimmer switch, it may be necessary to first remove headlight control switch, spring, ball and ball set plate. See Fig. 6.

Removal

- 1) Disconnect negative battery cable. Remove steering column covers. At combination switch connector, lift tab locks and remove clamp. See Fig. 8. Identify turn signal/dimmer switch wire terminals in combination switch connector.
- 2) Using miniature screwdriver, release wire terminal lock inside connector. Pull wires from connector and from harness jacket tubing. Remove turn signal/dimmer switch screws from combination switch body. See Fig. 6. Remove turn signal/dimmer switch.

Installation

To install, reverse removal procedure. To install wire terminals into combination switch connector cavities, push wire terminal into cavity until terminal clicks into place.



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Fig. 8: Releasing Wire Terminals Inside Connector
Courtesy of Toyota Motor Sales, U.S.A., Inc.

TORQUE SPECIFICATIONS

TORQUE SPECIFICATIONS TABLE

Application	Ft. Lbs. (N.m)
Steering Wheel Nut	26 (35)
	INCH Lbs. (N.m)
Air Bag Module Torx Screws	65 (7.3)