

STEERING COLUMN SWITCHES

1996 Toyota Supra

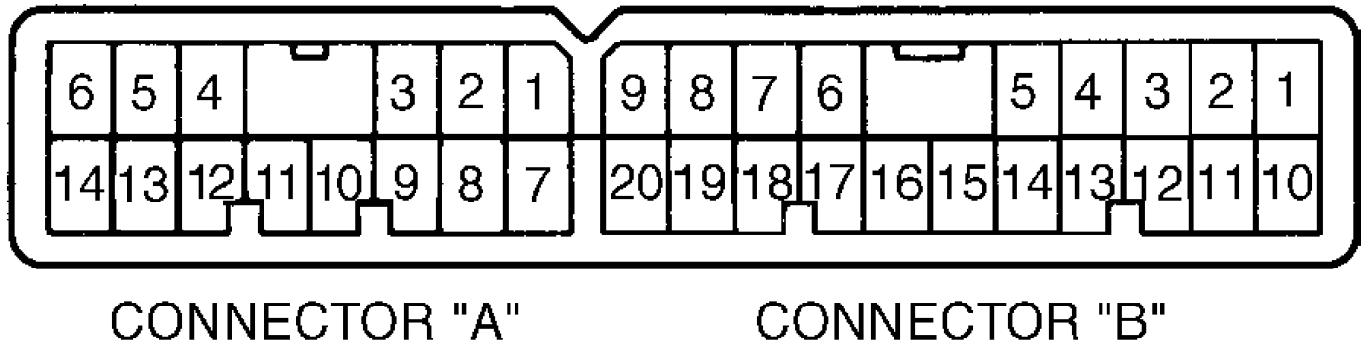
1995-96 ACCESSORIES & EQUIPMENT
Toyota Steering Column Switches - Cars

Supra

DESCRIPTION

COMBINATION SWITCH

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



96H06883

Fig. 1: Identifying Combination Switch Connector Terminals
Courtesy of Toyota Motor Sales, U.S.A., Inc.

COMPONENT TESTS

* PLEASE READ THIS FIRST *

WARNING: Deactivate air bag system before performing any service operation. For 1995 Supra, see AIR BAG RESTRAINT SYSTEM, for 1996 Supra, see AIR BAG RESTRAINT SYSTEM article. DO NOT apply electrical power to any component on steering column without first deactivating air bag system. Air bag may deploy.

HEADLIGHT, DIMMER & PASSING SWITCHES

With headlight switch in specified position, check continuity between specified terminals of combination switch connector. Refer to the HEADLIGHT SWITCH CONTINUITY TEST table in this article and/or the DIMMER & PASSING SWITCHES CONTINUITY TEST table in this article. Also, 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	(1) Terminals	Continuity
Off	A2, A11 & A13	No
Tail	A2 & A11	Yes
Head	A2, A11 & A13	Yes

(1) - See Fig. 1.

DIMMER & PASSING SWITCHES CONTINUITY TEST TABLE

Application & Switch Position	(1) Terminals	Continuity
High Beam	A9 & A12	Yes
Low Beam	A3 & A9	Yes
Passing	A9, A12 & A14	Yes

(1) - See Fig. 1.

HEADLIGHT CONTROL RELAY

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

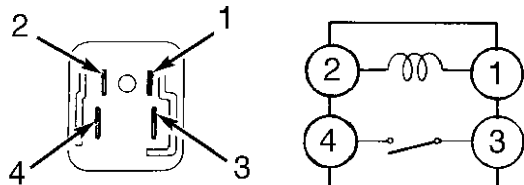
HEADLIGHT CONTROL RELAY LOCATION TABLE

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

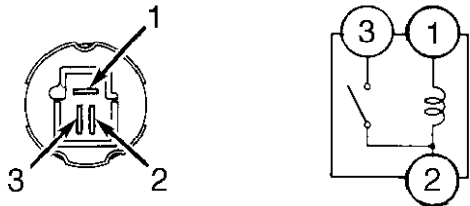
HEADLIGHT CONTROL RELAY TEST TABLE

Application/ Model	(1) Apply Voltage To Terminals	(1) Continuity Between Terminals
Supra	1 & 2	3 & 4

(1) - See Fig. 2.



EXCEPT MR2



MR2

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Fig. 2: Identifying Headlight Control Relay Terminals
 Courtesy of Toyota Motor Sales, U.S.A., Inc.

TAILLIGHT CONTROL RELAY

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

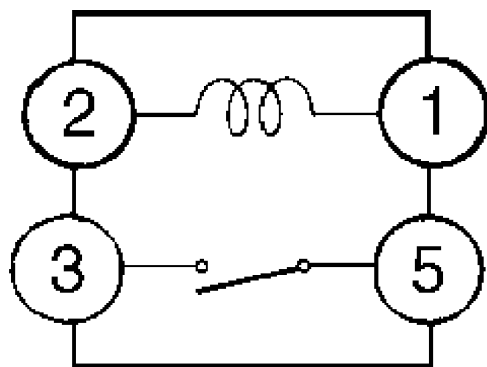
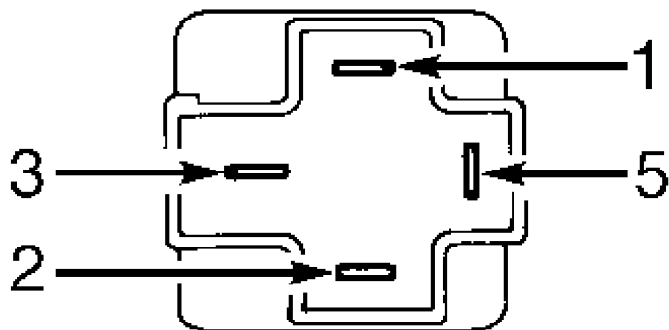
TAILLIGHT CONTROL RELAY LOCATION TABLE

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

TAILLIGHT CONTROL RELAY TEST TABLE

Application/ Model	(1) Apply Voltage To Terminals	(1) Continuity Between Terminals
Supra	1 & 2	3 & 5

(1) - See Fig. 3.



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Fig. 3: Identifying Taillight Control Relay Terminals
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 in WIRING DIAGRAMS.

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. 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
Supra	Left Side Engine Compartment, In Relay Block No. 2

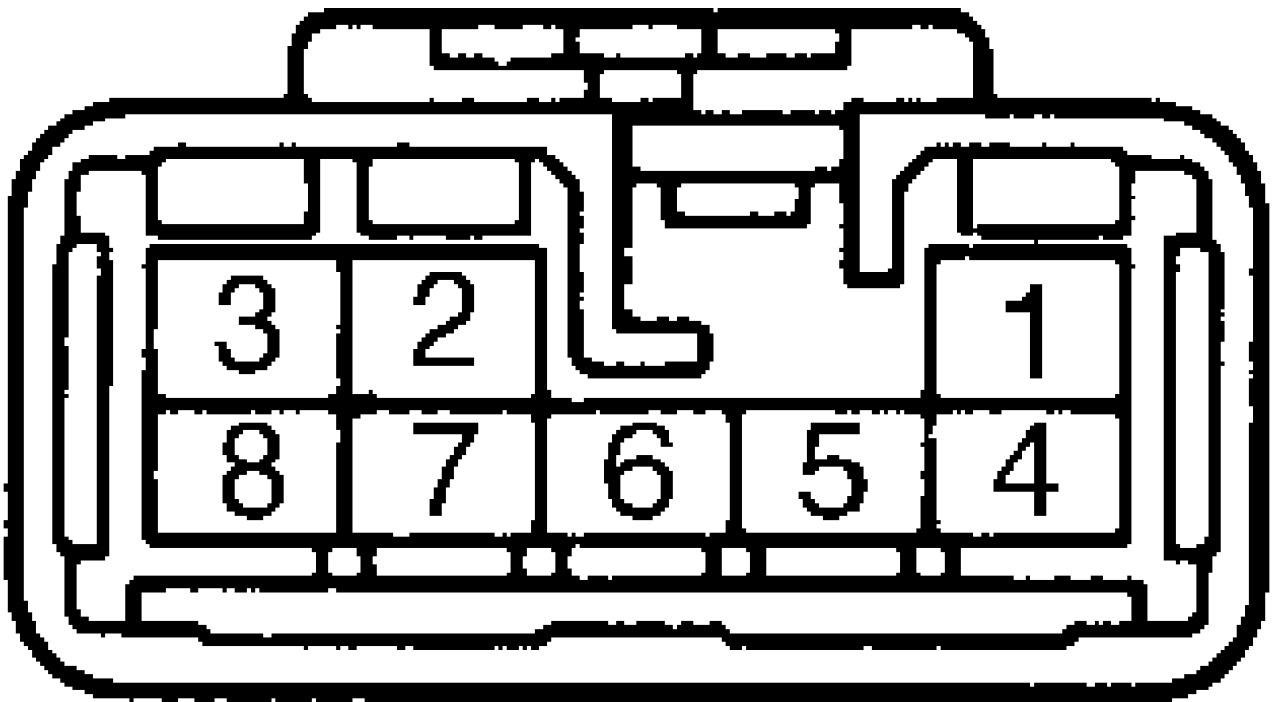
IGNITION SWITCH

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	(1) Terminals	Continuity
Lock	1, 2, 3, 4, 5, 7 & 8	No
Accessory	5 & 7	Yes
On	2 & 3; 4, 5 & 7	Yes
Start	1, 2 & 3; 4, 7 & 8	Yes

(1) - See Fig. 4.



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Fig. 4: Identifying Ignition Switch Connector Terminals (Supra)
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 Fig. 1. See TURN SIGNAL SWITCH CONTINUITY TEST table. If continuity is not as specified, replace turn signal switch.

TURN SIGNAL SWITCH CONTINUITY TEST TABLE

Application & Switch Position	(1) Terminals	Continuity
All Others With Air Bag		
Left	No. 1 & 2	Yes
Neutral	No. 1, 2 & 3	No
Right	No. 2 & 3	Yes
All Others		
Left	A1 & A5	Yes
Neutral	A1, A5 & A8	No
Right	A1 & A8	Yes

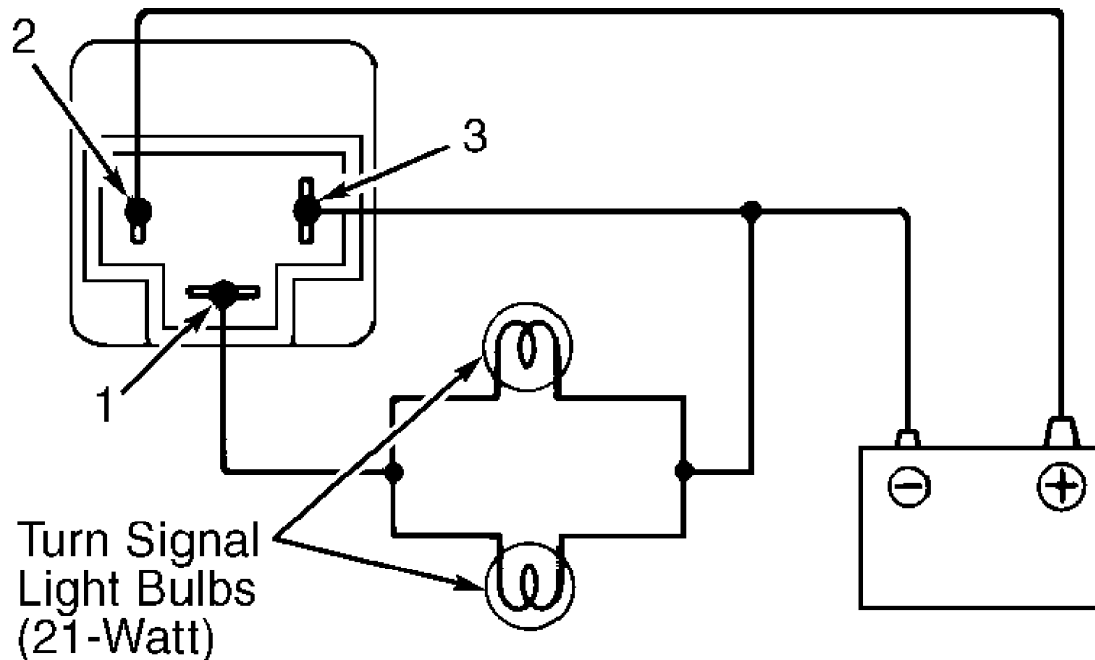
(1) - See Fig. 1.

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
Supra	Behind Left Kick Panel In Relay Block No. 4



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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.

REMOVAL & INSTALLATION

WARNING: Deactivate air bag system before performing any service operation. For 1995 Supra, see AIR BAG RESTRAINT SYSTEM, for 1996 Supra, see AIR BAG RESTRAINT SYSTEM article. DO NOT apply electrical power to any component on steering column without first deactivating air bag system. Air bag may deploy.

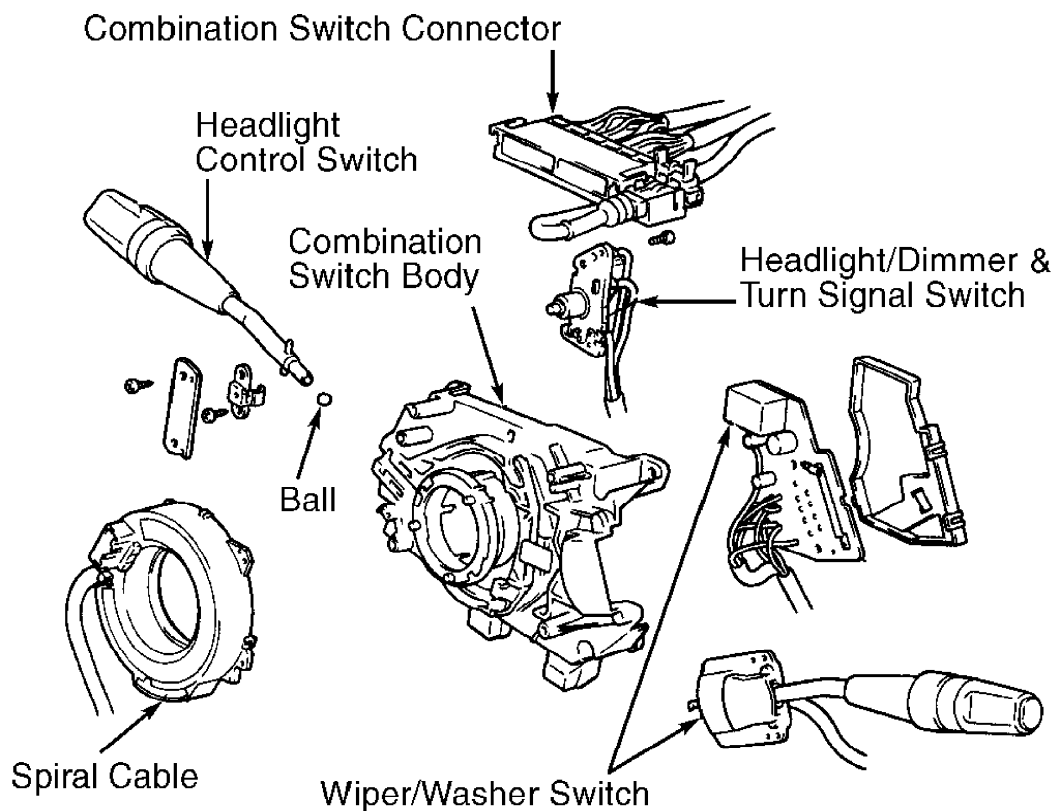
COMBINATION SWITCH

Removal & Installation

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.



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

IGNITION SWITCH

Removal & Installation

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. Wait 90 seconds before servicing steering wheel. Remove 2 screw covers from outer sides of steering wheel. Using Torx Wrench (T30), loosen 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.

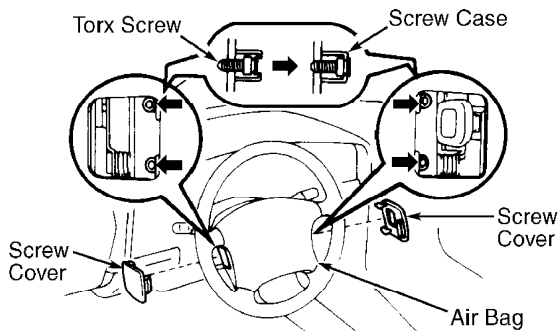
Installation

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. See TORQUE SPECIFICATIONS. Install screw covers. Connect negative battery cable.



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

HEADLIGHT/DIMMER & TURN SIGNAL SWITCH

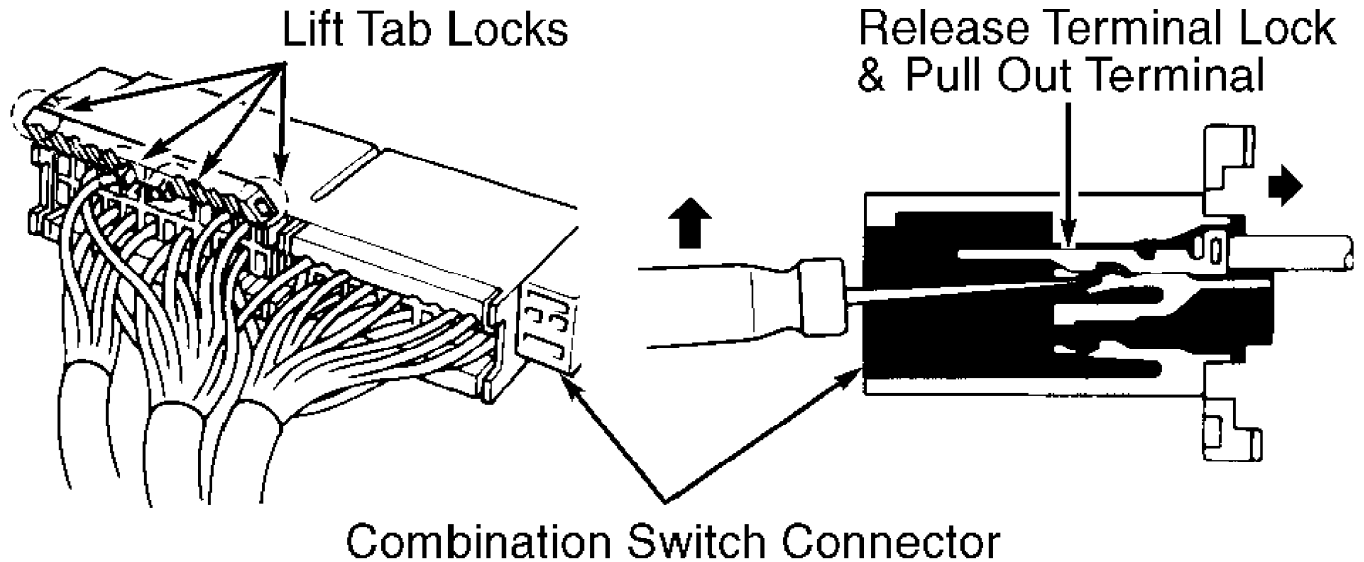
Removal

1) Disconnect negative battery cable. Remove steering column covers (it may be necessary to first remove lower finish panel from instrument panel). 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 (Typical)
Courtesy of Toyota Motor Sales, U.S.A., Inc.

TORQUE SPECIFICATIONS

TORQUE SPECIFICATIONS

Application	Ft. Lbs. (N.m)
Steering Wheel Nut	26 (35)
	INCH Lbs. (N.m)
Air Bag Module Torx Screws	62 (7.0)

WIRING DIAGRAMS

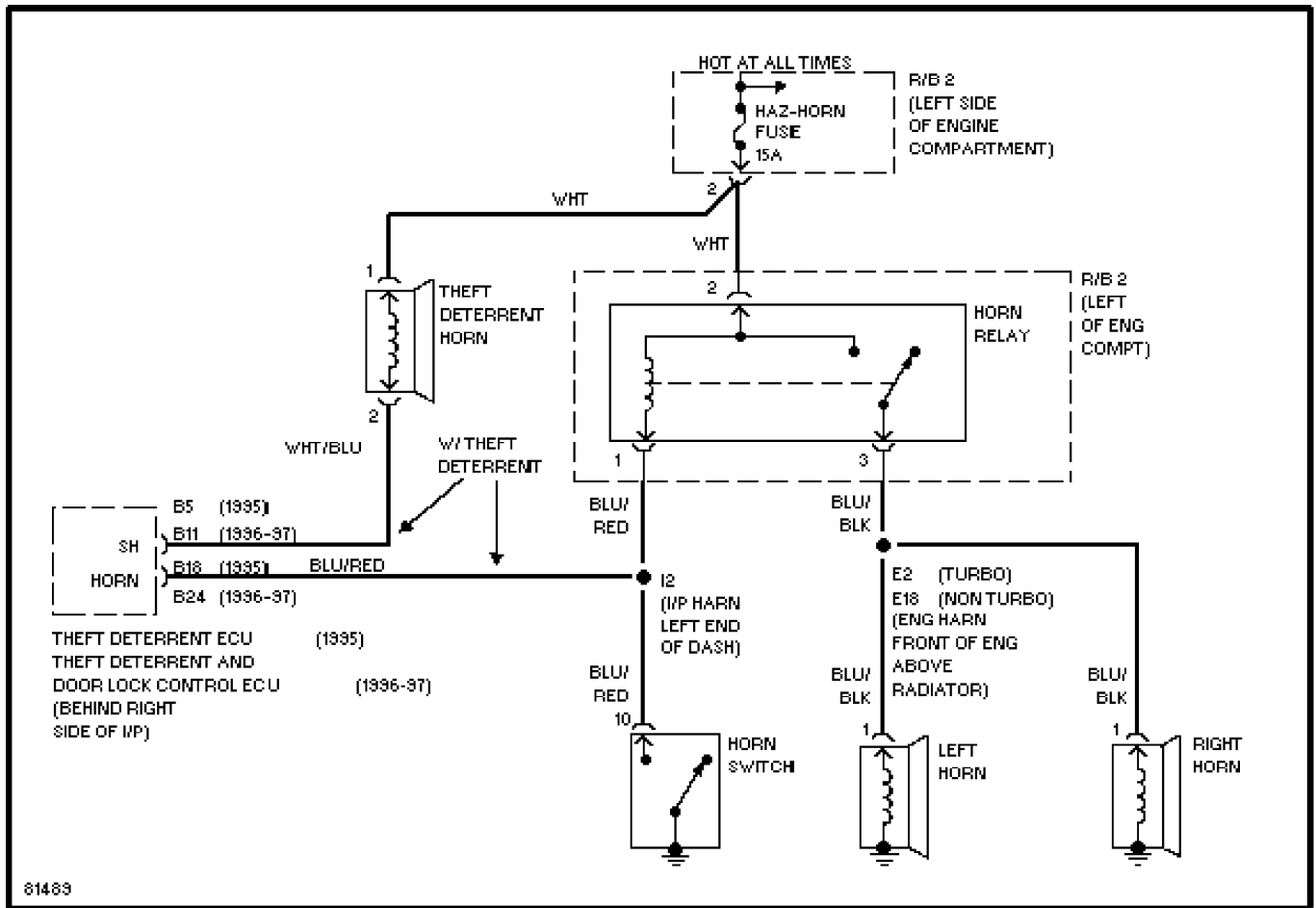


Fig. 9: Horn System Wiring Diagram (1995-96)