

2002 ACCESSORIES & EQUIPMENT

Horn System - RAV4

BODY ELECTRICAL SYSTEM

PRECAUTION

NOTE: Take care to observe the following precautions when performing inspections or removal and replacement of body electrical related parts.

1. Headlight System

Halogen bulbs have pressurized gas inside and require special handling. They can burst if scratched or dropped. Hold a bulb only by its plastic or metal case.

Don't touch the glass part of a bulb with bare hands.

2. SRS (Supplemental Restraint System)

The RAV4 is equipped with an SRS (Supplemental Restraint System) such as the driver airbag and front passenger airbag, failure to carry out service operation in the correct sequence could cause the SRS to unexpectedly deploy during servicing, possibly leading to a serious accident. Before servicing (including removal or installation of parts, inspection or replacement), be sure to read the precautionary notices in **AIR BAG SAFETY PRECAUTIONS**.

3. Audio System

If the negative (-) terminal cable is disconnected from the battery, the preset AM, FM1 and FM2 stations stored in memory are erased, so be sure to note the stations and reset them after the battery terminal is reconnected.

4. Mobile Communication System

If the vehicle is equipped with a mobile communication system, refer to precautions in **IF VEHICLE IS EQUIPPED WITH MOBILE COMMUNICATION SYSTEM**.

TROUBLESHOOTING

PROBLEM SYMPTOMS

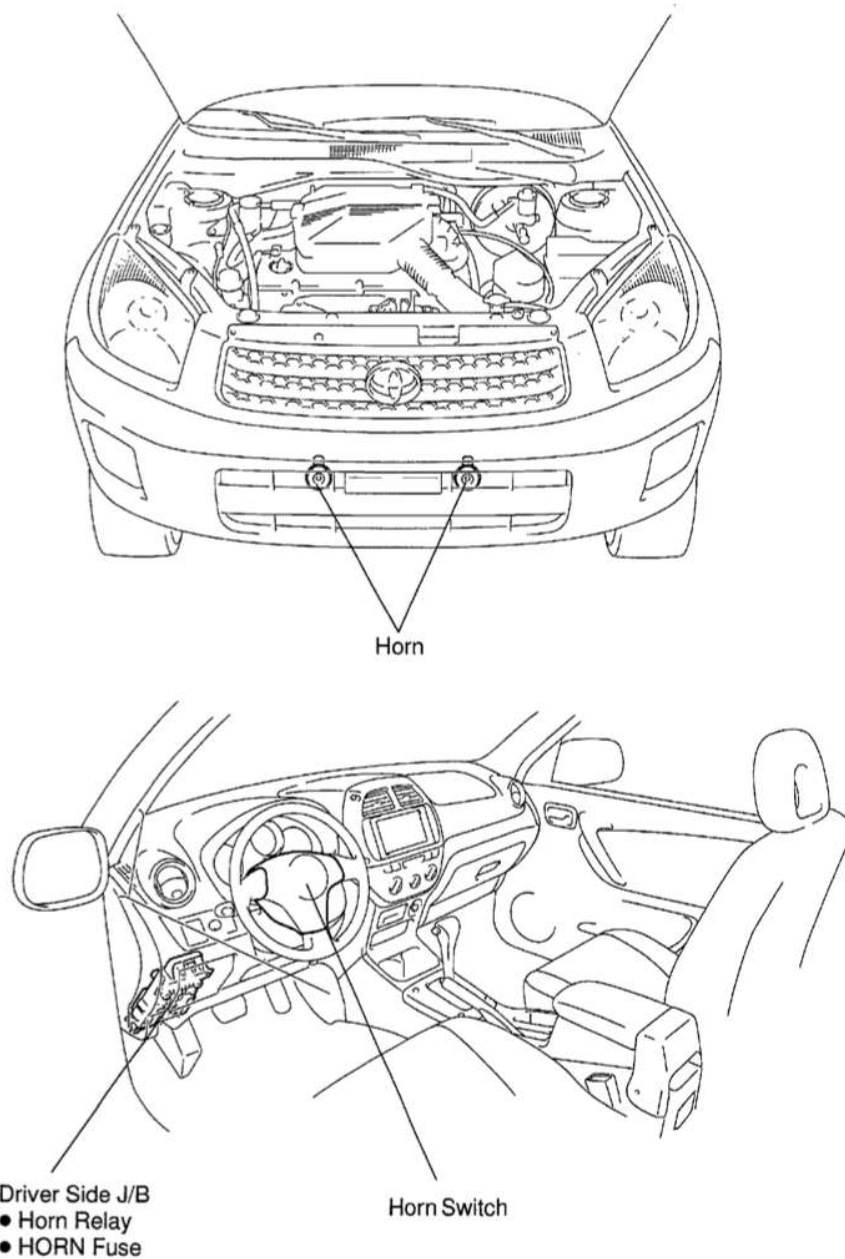
HORN SYSTEM

Symptom/Suspected Area	See
Horn Symptom Does Not Operate	
HORN Fuse	FUSES & CIRCUIT BREAKERS

Horn Relay	Step 3 under INSPECTION
Horn Switch	Step 1 under INSPECTION
Horn	Step 2 under INSPECTION
Wire Harness	
Horns Blow All The Time	
Horn Relay	Step 3 under INSPECTION
Horn Switch	Step 1 under INSPECTION
Wire Harness	
One Horn Operates But The Other Horn Does Not Operate	
Horn	Step 2 under INSPECTION
Wire Harness	
Horns Operate Abnormally	
Horn Relay	Step 3 under INSPECTION
Horn	Step 2 under INSPECTION
Wire Harness	

HORN SYSTEM

LOCATION



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Fig. 1: Identifying Horn System Components
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSPECTION

1. Inspect horn switch .

- a. Check that no continuity exists between terminal 6 of the connector and body ground.

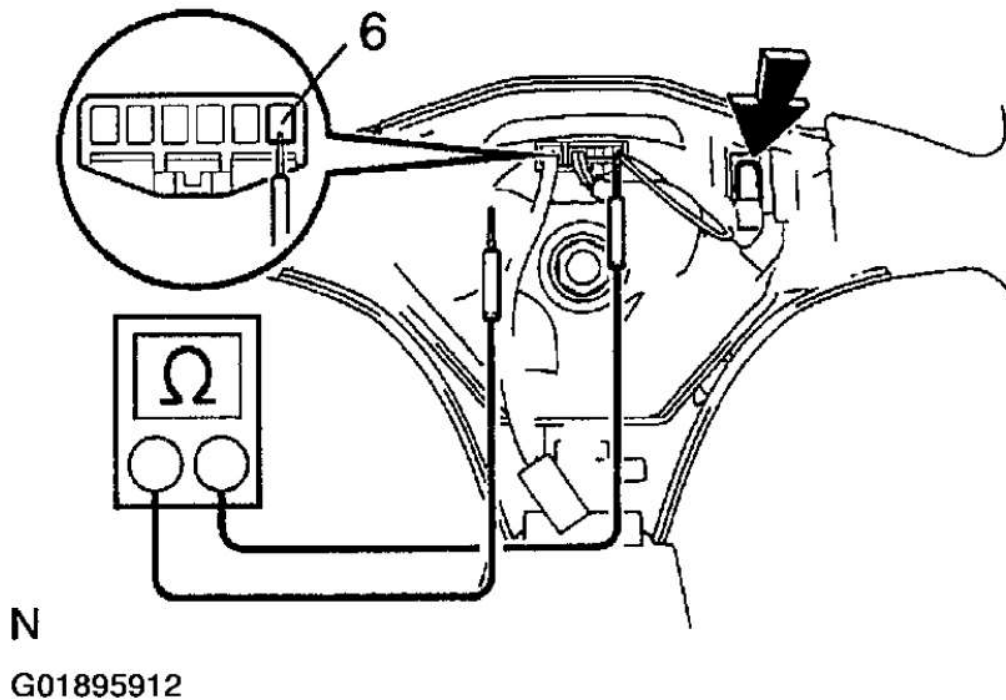


Fig. 2: Inspecting Horn Switch

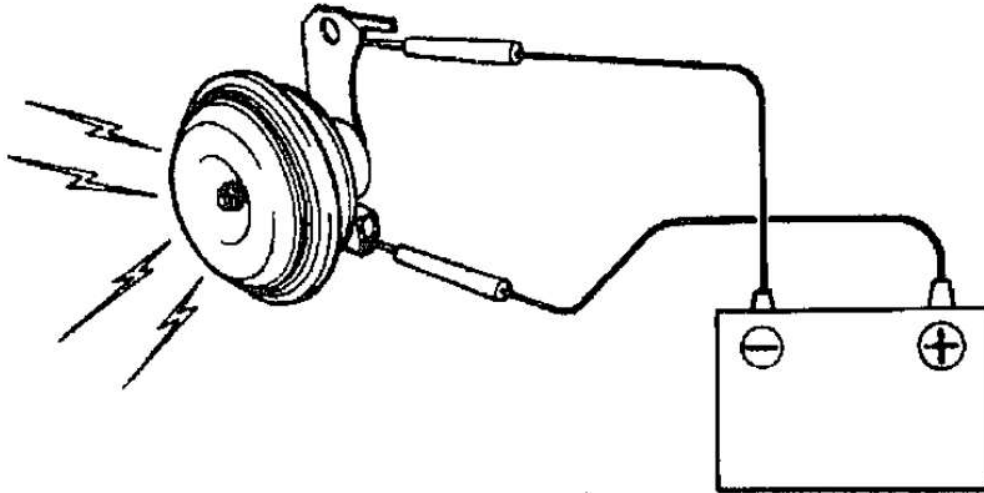
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- b. Check that continuity exists between terminal 6 of the connector and body ground when the horn contact plate is pressed against the steering spoke assembly.

If continuity is not as specified, repair or replace the steering wheel or wire harness as necessary.

2. Inspection Horn Operation

Connect the positive (+) lead from the battery to the terminal and negative (-) lead to the horn body and check that the horn blows.



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Fig. 3: Testing Horn

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

If operation is not as specified, replace the horn.

3. Inspect horn relay (Marking: HORN) continuity .

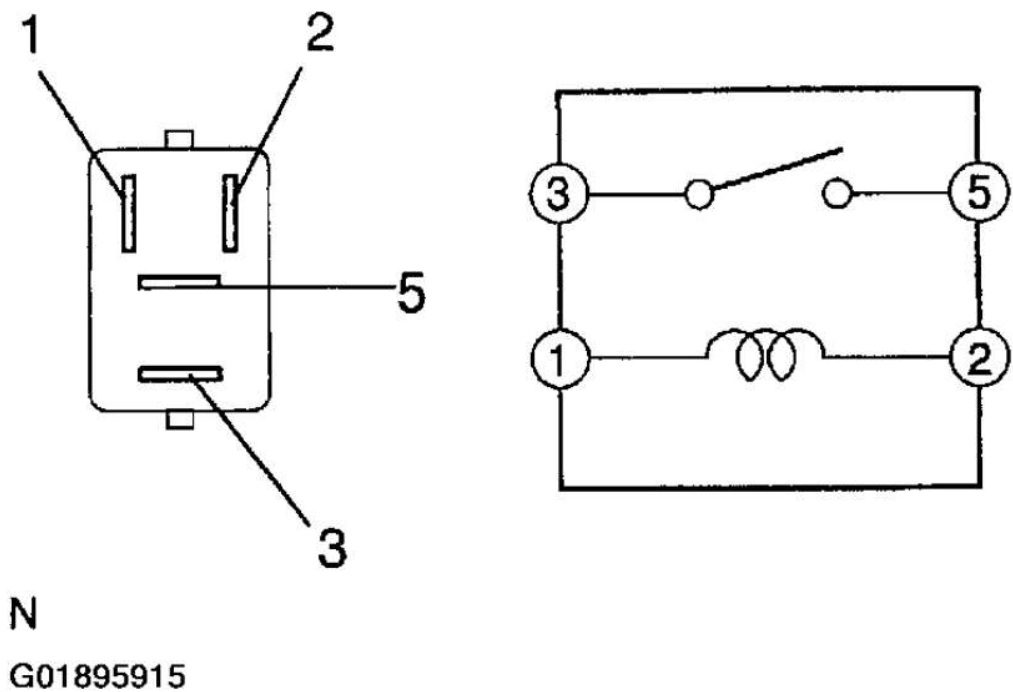


Fig. 4: Identifying Horn Relay Terminals
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

Condition	Tester connection	Specified condition
Constant	1 – 2	Continuity
Apply B+ between terminals 1 and 2.	3 – 5	Continuity

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Fig. 5: Displaying Horn Relay Specifications
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

If continuity is not as specified, replace the relay.

2002 ACCESSORIES & EQUIPMENT

Ignition Switch & Key Unlock Warning System - RAV4

BODY ELECTRICAL SYSTEM

PRECAUTION

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TROUBLESHOOTING

PROBLEM SYMPTOMS

IGNITION SWITCH AND KEY UNLOCK WARNING SWITCH

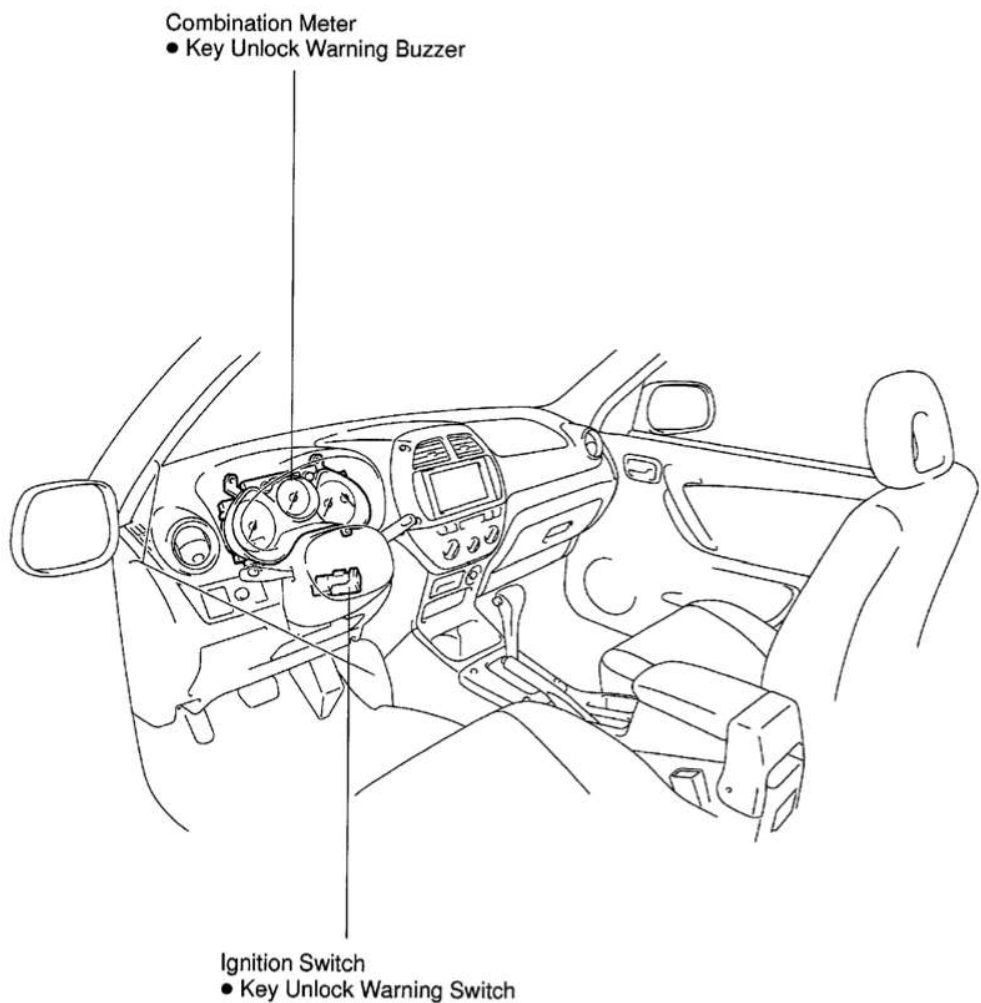
Symptom/Suspected Area	See
Ignition Switch Is Not Set To Each Position	
Ignition Switch	Step 1 under INSPECTION

Key Unlock Warning System Does Not Operate

GAUGE Fuse	FUSES & CIRCUIT BREAKERS
Key Unlock Warning Switch	Step 2 under INSPECTION
Door Courtesy Switch	INSPECTION
Wire Harness	*****

IGNITION SWITCH AND KEY UNLOCK WARNING SWITCH

LOCATION

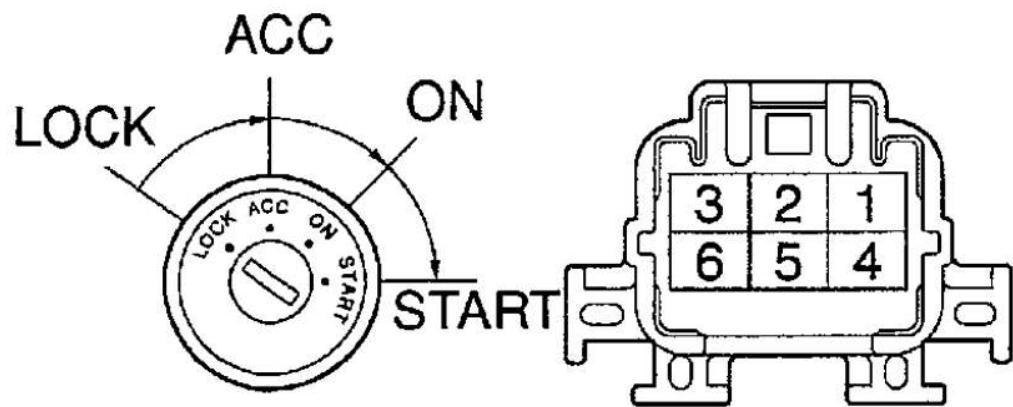


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Fig. 1: Locating Ignition Switch & Key Unlock Warning Switch
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSPECTION

- 1. Inspect ignition switch continuity .



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Fig. 2: Inspecting Ignition Switch Continuity
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

Switch position	Tester connection	Specified condition
LOCK	—	No continuity
ACC	1 – 3	Continuity
ON	1 – 2 – 3 5 – 6	Continuity
START	1 – 2 4 – 5 – 6	Continuity

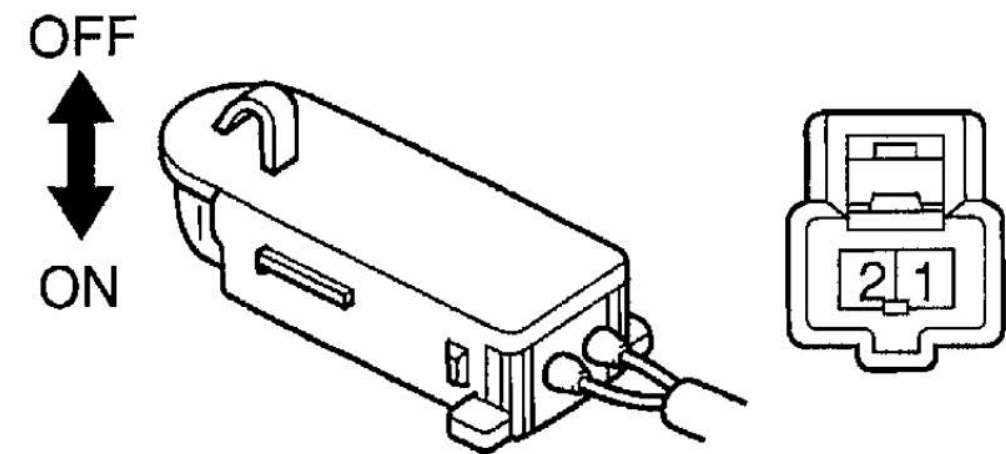
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Fig. 3: Displaying Switch Specifications
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

If continuity is not as specified, replace the switch.

2. **Inspect key unlock warning switch continuity .**

If continuity is not as specified, replace the switch.



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Fig. 4: Inspecting Key Unlock Switch Continuity
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

Switch position	Tester connection	Specified condition
OFF (Key removed)	—	No continuity
ON (Key set)	1 – 2	Continuity

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Fig. 5: Displaying Key Unlock Switch Specifications
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

3. **Inspect key unlock warning buzzer .**

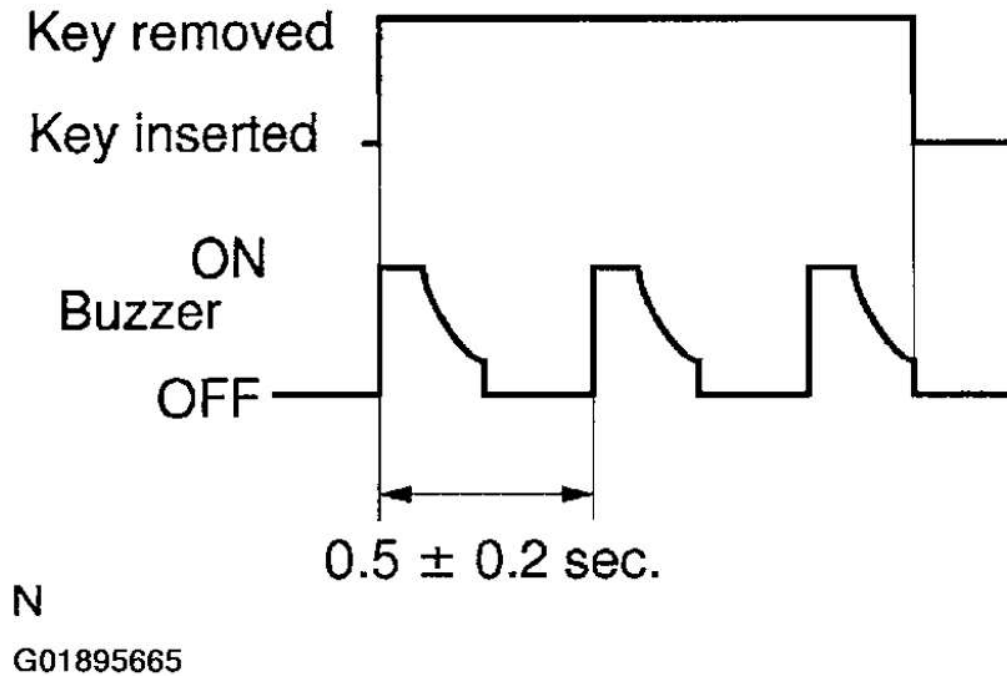


Fig. 6: Displaying Key Unlock Buzzer Specifications
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

Check the buzzer sound when driver's door is opened and key inserted.

If operation is not as specified, replace the combination meter (See **REMOVAL**).