

SRS Light "ON" DTC B1821/B1826 Open Front Side Squib Circuit

Service Category Vehicle Interior

Section Supplemental Restraint Systems

Market USA

Toyota Supports
ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2004 – 2009	Prius	

Introduction

Some 2004 – 2009 model year Prius vehicles may exhibit an SRS light "ON" condition with Diagnostic Trouble Code (DTC) B1821 and/or B1826. An updated wire harness is available to address this condition. Follow the procedures in this bulletin to replace the floor wire harness.

Production Change Information

This TSB applies to vehicles produced **BEFORE** the Production Change Effective VINs shown below.

MODEL	PRODUCTION CHANGE EFFECTIVE VIN
Prius	JTDKB20U#93523165
	JTDKB20U#97882507

Warranty Information

OP CODE	DESCRIPTION	TIME	OFP	T1	T2
EL1028	R & R Floor Harness (Left Side)	8.3	82161-#####	8B	71
EL1029	R & R No. 2 Floor Harness (Right Side)	8.3	82162-#####		
EL1030	R & R Floor Harness and No. 2 Floor Harness	10.3	82161-#####		

APPLICABLE WARRANTY

- This repair is covered under the Toyota Restraint Systems Warranty. This warranty is in effect for 60 months or 60,000 miles, whichever occurs first, from the vehicle's in-service date.
- Warranty application is limited to occurrence of the specified condition described in this bulletin.

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Parts Information

PREVIOUS PART NUMBER	CURRENT PART NUMBER	PART NAME	QTY
82161-####	Same	Wire, Floor	1
82162-####	Same	Wire, Floor No. 2	1

Required Tools & Equipment

SPECIAL SERVICE TOOLS (SST)	PART NUMBER	QTY
Plastic Pry Tool Set*	00002-06000-01	1

* Essential SST.

NOTE

Additional SSTs may be ordered by calling 1-800-933-8335.

TSB Overview

After confirming the vehicle condition matches this bulletin, this TSB will direct you to replace the floor wire harness. In order to do this, it is necessary to first remove several major components, such as the instrument panel, front seats, headliner, and seat belts. This bulletin provides detailed instructions on the removal and installation of these components.

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Inspection Procedure

1. Inspect the floor wire harness and the center airbag sensor assembly following the diagnostic procedure in the Repair Manual.

Refer to the Technical Information System (TIS), applicable model year Prius Repair Manual:

DTC B1821:

- [2004](#) / [2005](#) Prius:
Vehicle Interior – Supplemental Restraint Systems – “Supplemental Restraint System: B1821/55 Open in Side Squib”
- [2006](#) / [2007](#) / [2008](#) / [2009](#) Prius:
Vehicle Interior – Supplemental Restraint Systems – “Supplemental Restraint System: Airbag System: B1820/55–B1823/55: Short in Front Driver Side – Side Squib Circuit”

DTC B1826:

- [2004](#) / [2005](#) Prius:
Vehicle Interior – Supplemental Restraint Systems – “Supplemental Restraint System: B1826/56 Open in Side Squib”
 - [2006](#) / [2007](#) / [2008](#) / [2009](#) Prius:
Vehicle Interior – Supplemental Restraint Systems – “Supplemental Restraint System: Airbag System: B1825/56–B1828/56: Short in Front Passenger Side – Side Squib Circuit”
2. If NO concern is identified after inspecting the floor wire harness and the center airbag sensor assembly, follow the Repair Procedure below to replace the corresponding floor wire harness.

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Repair Procedure: Removal

IMPORTANT NOTES: PLEASE READ BEFORE STARTING REPAIR

To aid with this repair for each numbered step there will be a B, L, or R in bold parentheses. This will indicate if the step needs to be taken for that particular harness:

B = Needs to be performed if both floor harnesses are replaced.

L = Needs to be performed if the left side floor harness is replaced.

R = Needs to be performed if the right side floor harness is replaced.

The right floor harness is routed from the right kick panel to the auxiliary (12V) battery and branches off to the following components:

- Right seat and SRS ECU
- Right front seat belt
- Right rear door
- Across the rear seat to the fuel tank and then to the left floor harness
- Right Curtain Side Airbag
- HV cooling fan
- 12V Battery

The left floor harness is routed from the Body ECU to the right taillight and branches off to the following components:

- Left seat and SRS ECU
- Left front seat belt
- Left rear door
- Left Curtain Side Airbag and roof harness
- HV Battery
- Rear headlight level sensor (if equipped located under vehicle)
- Left and right taillights

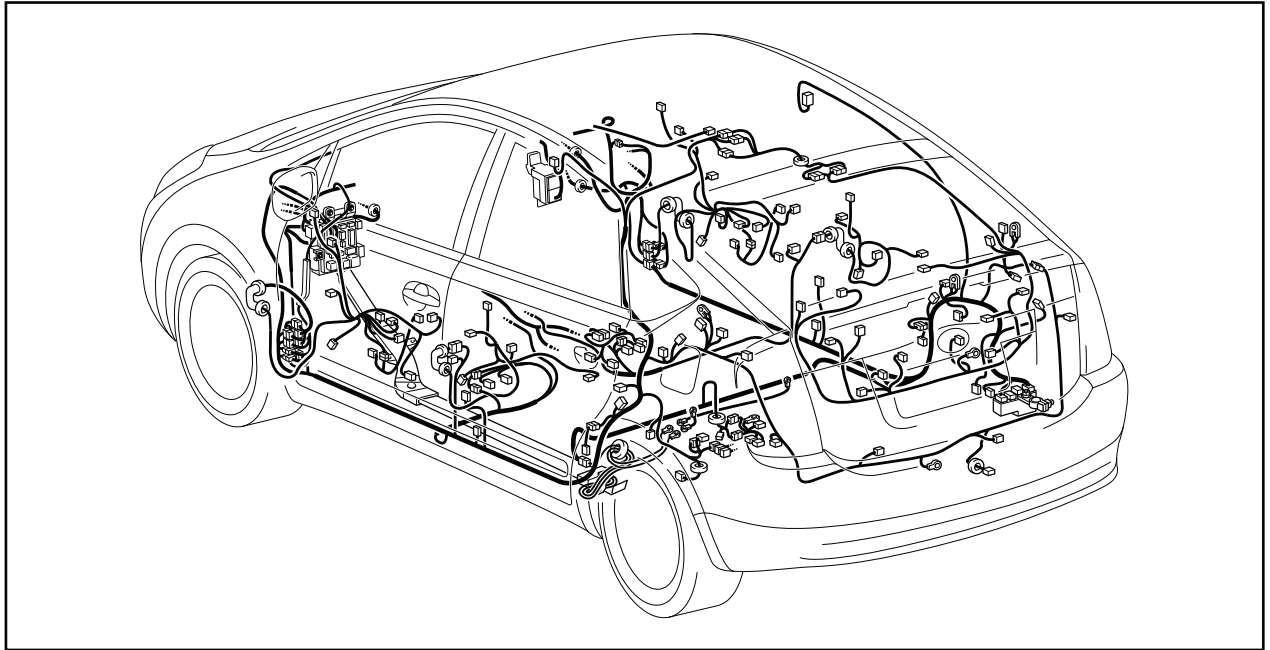
NOTE

When replacing the left floor harness on a vehicle equipped with auto level headlights, the vehicle will need to be lifted.

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Repair Procedure: Removal (Continued)

Figure 1. Floor Harness Routing



1. Disconnect the cable from the negative (–) battery terminal. **(B, L, R)**

CAUTION

Wait at least 90 seconds after disconnecting the cable from the negative (–) battery terminal to prevent airbag and seat belt pretensioner activation.

2. Remove the service plug. **(B, L)**

Refer to the Technical Information System (TIS), applicable model year Prius Repair Manual:

- [2004](#) / [2005](#) Prius:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid Control System: Precaution”
- [2006](#) / [2007](#) / [2008](#) / [2009](#) Prius:
Engine/Hybrid System – Hybrid/Battery Control System – “P112 Hybrid Vehicle Control: Hybrid Control System: Precaution”

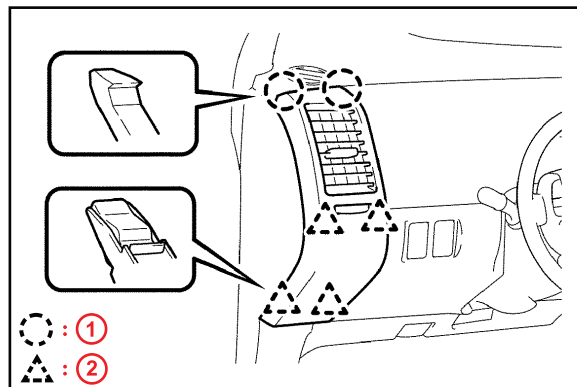
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Repair Procedure: Removal (Continued)

3. Remove the No. 1 instrument panel register assembly. **(B, L, R)**

Detach the 2 claws and 4 clips, and remove the instrument panel register.

Figure 2.

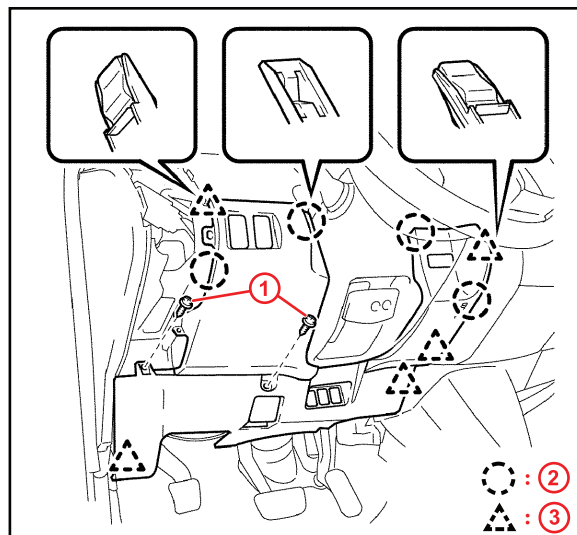


1	Claws
2	Clips

4. Remove the lower instrument panel finish panel sub-assembly. **(B, L, R)**

- A. Remove the 2 screws.
- B. Disconnect the hood lock control cable.
- C. Detach the 4 claws and 5 clips.
- D. Disconnect all connectors and remove the instrument panel finish panel.

Figure 3.



1	Screws
2	Claws
3	Clips

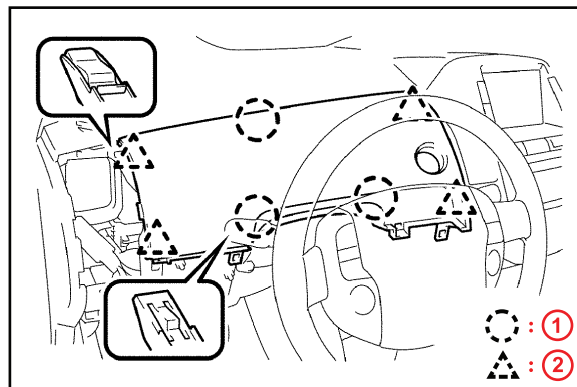
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Repair Procedure: Removal (Continued)

5. Remove the upper instrument panel finish panel sub-assembly. **(B, L, R)**

- A. Detach the 3 claws and 4 clips.
- B. Disconnect the connector and remove the instrument panel finish panel.

Figure 4.

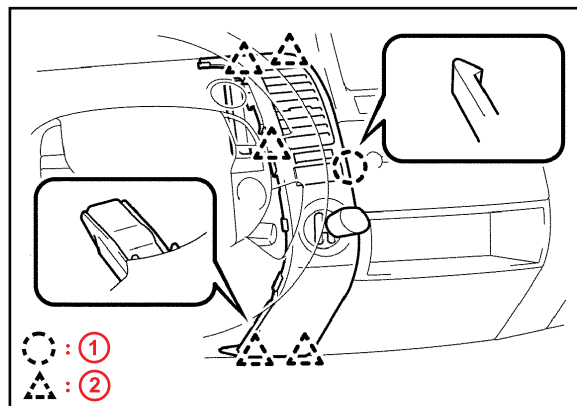


1	Claws
2	Clips

6. Remove the No. 3 instrument panel register assembly. **(B, L, R)**

- A. Detach the claw and 5 clips.
- B. Disconnect the connector and remove the instrument panel register.

Figure 5.



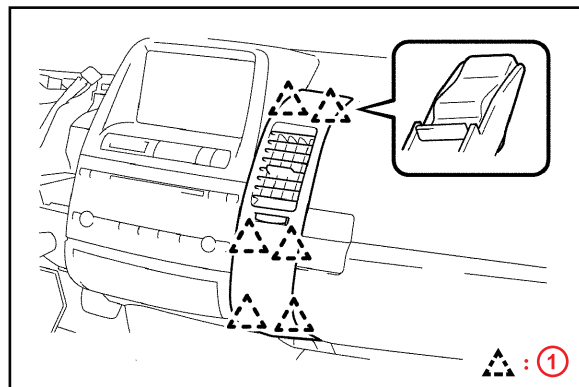
1	Claw
2	Clips

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Repair Procedure: Removal (Continued)

7. Detach the 6 clips and remove the No. 4 instrument panel register assembly. **(B, L, R)**

Figure 6.

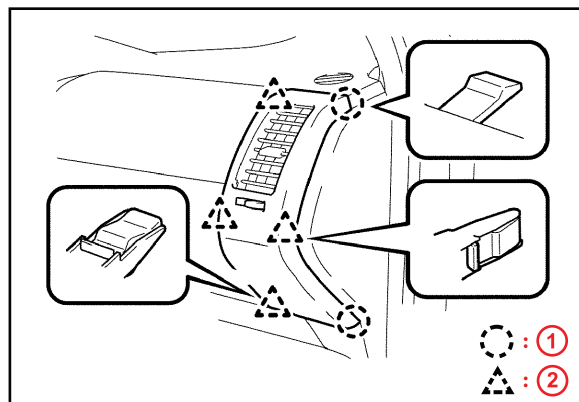


1	Clips
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8. Remove the No. 2 instrument panel register assembly. **(B, L, R)**

Detach the 2 claws and 4 clips, and remove the instrument panel register.

Figure 7.



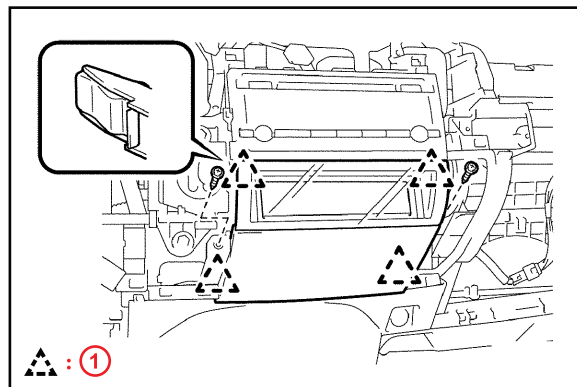
1	Claws
2	Clips

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Repair Procedure: Removal (Continued)

9. Remove the instrument cluster finish panel assembly center. **(B, L, R)**
 - A. Remove the 2 screws.
 - B. Detach the 4 clips and remove the instrument cluster finish panel.

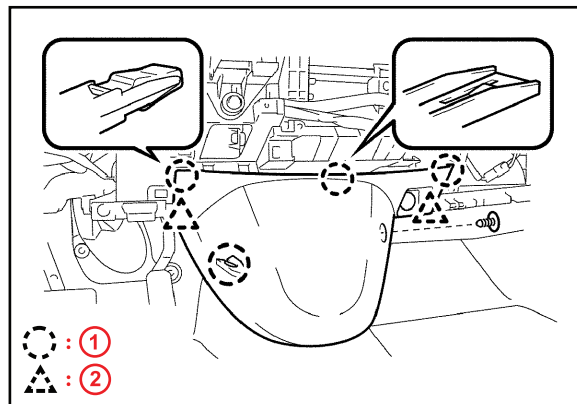
Figure 8.



1	Clips
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10. Remove the instrument cluster finish panel assembly center. **(B, L, R)**
 - A. Using a clip remover, remove the clip from the instrument panel finish panel lower center.
 - B. Detach the 4 claws and 2 clips, and remove the instrument panel finish panel.

Figure 9.



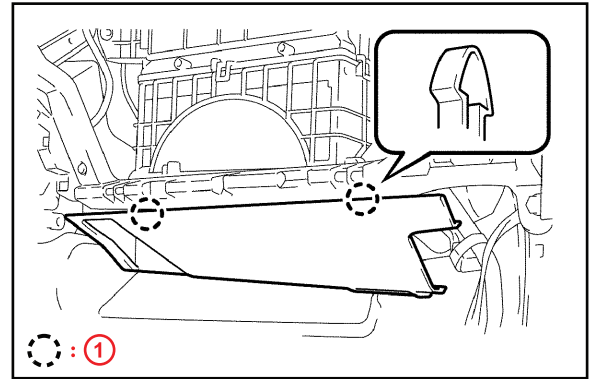
1	Claws
2	Clips

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Repair Procedure: Removal (Continued)

11. Remove the No. 1 instrument panel under cover sub-assembly by detaching the 2 claws.(B, L, R)

Figure 10.

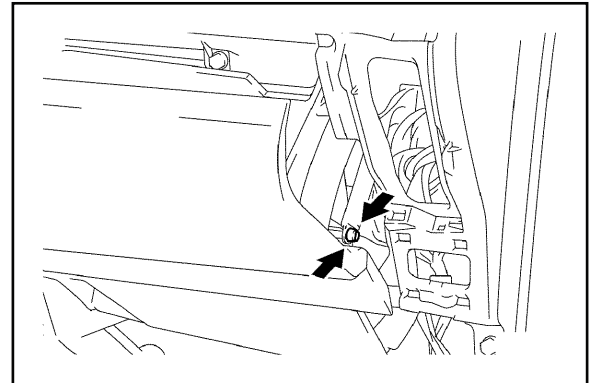


1 Claws

12. Remove the glove compartment door stopper sub-assembly. (B, L, R)

Holding the part indicated in the illustration, remove the glove compartment door stopper from the glove compartment door.

Figure 11.



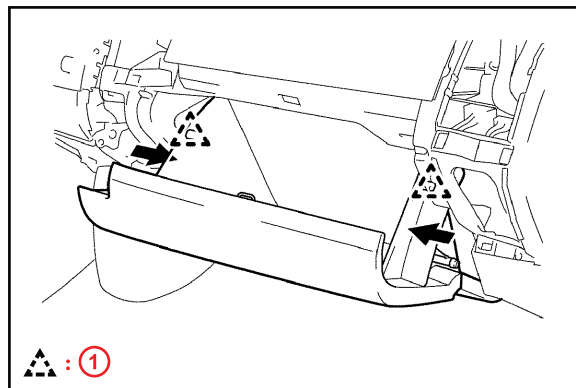
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Repair Procedure: Removal (Continued)

13. Remove the glove compartment door assembly. **(B, L, R)**

- A. While pushing in the sides of the glove compartment door as indicated by the arrows, open the door to release it from the 2 stoppers.

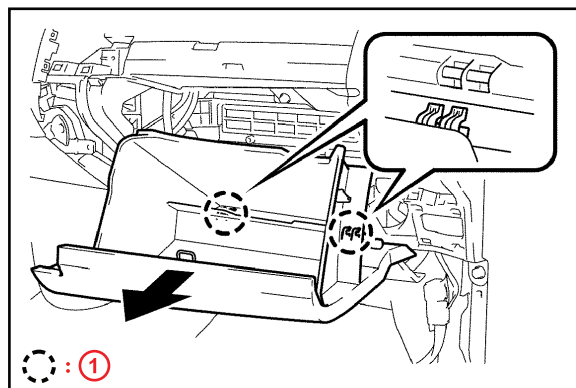
Figure 12.



1 Stoppers

- B. Open the door until it is horizontal.
- C. Pull the glove compartment door toward the rear of the vehicle to detach the 2 hinges and remove the glove compartment door.

Figure 13.



1 Hinges

14. Remove the Body ECU. **(B, L)**

- A. Remove the 2 bolts for the protective plate.
- B. Remove the 3 bolts for the Body ECU.

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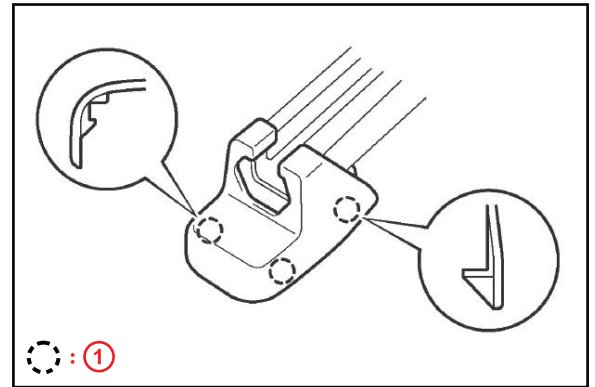
Repair Procedure: Removal (Continued)

15. Remove the left and right front seat. **(B, L, R)**

2004 – 2005 MY:

- A. Using a plastic pry tool (or equivalent), disengage the 3 claws and remove the seat track outer cover LH.

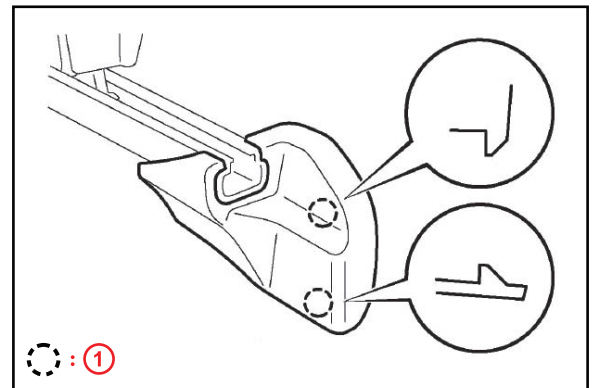
Figure 14.



1	Claws
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- B. Using a plastic pry tool (or equivalent), disengage the 2 claws and remove the seat track bracket cover inner LH.

Figure 15.



1	Claws
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- C. Remove the front seat headrest assembly.
- D. Remove the front seat assembly.
- (1) Lift up the seat track adjusting handle and move the seat to the rearmost position.
 - (2) Remove the 2 bolts on the front side of the seat.
 - (3) Lift up the seat track adjusting handle and move the seat to the foremost position.
 - (4) Remove the 2 bolts on the rear side of the seat.

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Repair Procedure: Removal (Continued)

- (5) Disconnect the connectors under the seat. Then remove the front seat.

NOTICE

Be careful NOT to damage the vehicle body.

2006 – 2009 MY:

Refer to TIS, applicable model year Prius Repair Manual:

- [2006](#) / [2007](#) / [2008](#) / [2009](#) Prius:
Vehicle Interior – Seat – “Seat: Front Seat Assembly: Removal”

16. Remove the instrument panel rear console box. **(B, L, R)**

Refer to TIS, applicable model year Prius Repair Manual:

- [2004](#) / [2005](#) Prius:
Vehicle Interior – Interior Panels/Trim – “Console Box Sub-Assy Rear: Replacement”
- [2006](#) / [2007](#) / [2008](#) / [2009](#) Prius:
Vehicle Interior – Interior Panels/Trim – “Instrument Panel: Rear Console Box: Removal”

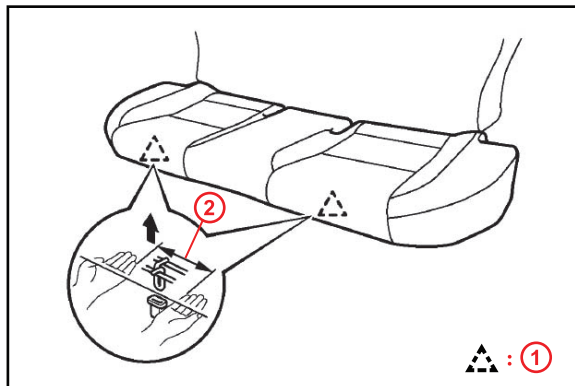
17. Remove the rear console box mounting bracket by removing the 4 bolts. **(B, L, R)**

18. Remove the rear seat cushion assembly. **(B, L, R)** **Figure 16.**

Pull up the 2 front portions of the seat cushion, then remove it.

NOTICE

The cushion frame deforms easily. To avoid deforming the seat cushion, place your hands near the hook and on both sides of the hook, and then pull up on the seat cushion. Do the same for all the hooks.



1	Hooks
2	100 mm (3.94 in.) or less

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Repair Procedure: Removal (Continued)

19. Remove the floor panel left side. **(B, L, R)**

- A. Remove the 3 bolts and 1 clip.
- B. Remove the bracket.

Figure 17.



20. Remove the floor panel right side. **(B, R)**

- A. Remove the 3 bolts and 1 clip.
- B. Remove the bracket.

Figure 18.



21. Remove the rear seatback assembly LH. **(B, L)**

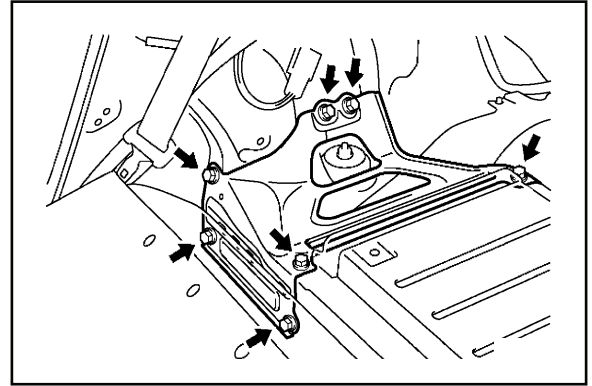
- A. Open the front part of the rear floor deck board No. 1.
- B. Fully fold the seatback forward.
- C. Remove the 2 bolts and seatback.

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Repair Procedure: Removal (Continued)

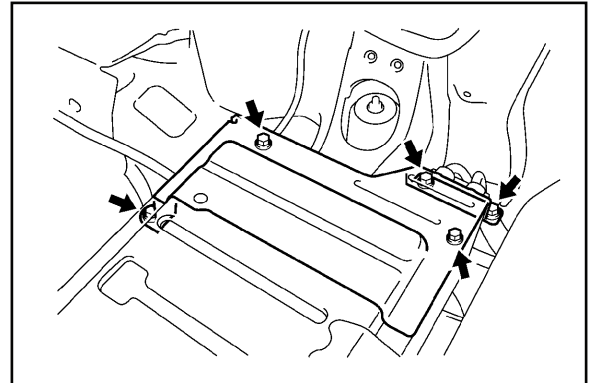
22. Remove the battery bracket reinforcement by removing the 7 bolts. **(B, L)**

Figure 19.



23. Remove the No. 6 battery carrier panel by removing the 3 bolts and 2 nuts. **(B, L)**

Figure 20.



24. Remove the headliner. **(B, L, R)**

Refer to TIS, applicable model year Prius Repair Manual:

- [2004](#) / [2005](#) Prius:
Vehicle Interior – Interior Panels/Trim – “Roof Headlining Assy: Replacement”
- [2006](#) / [2007](#) / [2008](#) / [2009](#) Prius:
Vehicle Interior – Interior Panels/Trim – “Interior: Roof Headlining: Removal”

25. Remove the carpet. **(B, L, R)**

- A. Remove the audio amplifier (if equipped).
- B. Remove the NAV ECU (if equipped).
- C. Remove the 4 clips located under the rear seat cushion area.
- D. Remove the carpet.

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Repair Procedure: Removal (Continued)

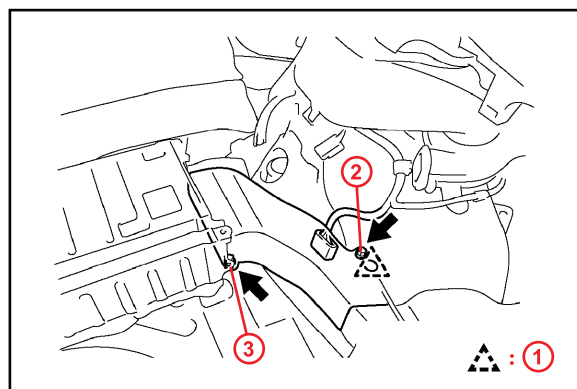
26. Remove the No. 3 air duct rear. **(B, L, R)**

- Detach the 10 claws and then remove the No. 3 air duct rear.
- Detach the clip and remove the right floor duct going to the rear.
- Detach the clip and remove the left floor duct going to the rear.

27. Remove the quarter vent duct. **(B, R)**

- Disconnect the connector.
- Remove the clamp, then disconnect the wire harness.
- Remove the bolt, clip, and the quarter vent duct.

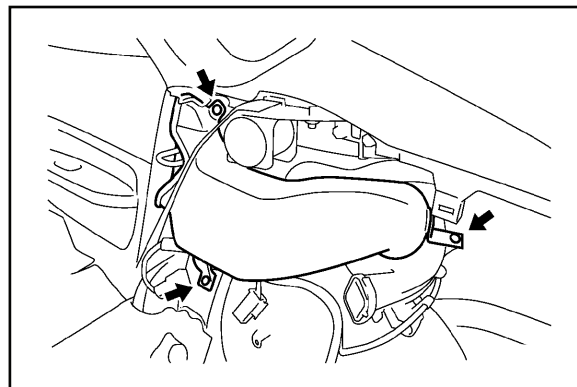
Figure 21.



1	Clamp
2	Bolt
3	Clip

28. Remove the 3 clips and the ventilator duct inner. **(B, R)**

Figure 22.



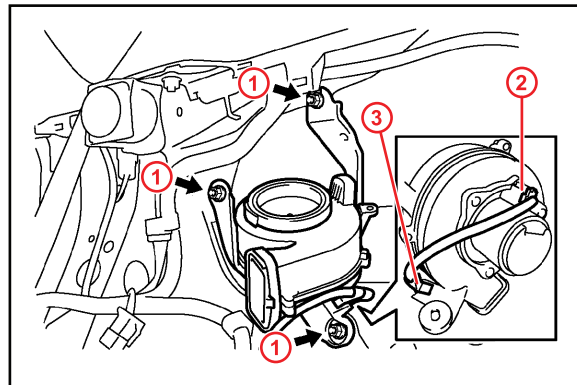
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Repair Procedure: Removal (Continued)

29. Remove the battery blower. **(B, R)**

- A. Remove the 3 nuts, then disconnect the battery blower assembly from the vehicle.
- B. Remove the connector, clamp, and battery blower.

Figure 23.



1	Nuts
2	Connector
3	Clamp

30. Remove the floor harness. **(B, L, R)**

Note mounting and routing locations.

- For the left harness to be removed, the rear mount for the Curtain Side Airbag (CSAB) must be removed.

NOTICE

Do NOT allow the CSAB to hang unsupported as it could be damaged.

NOTE

For vehicles equipped with auto leveling headlights, the left harness is connected to the rear leveling sensor mounted under the vehicle (see Figure 24).

Figure 24.



- For the right harness, the battery fan relay will need to be installed onto the new harness.

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Repair Procedure: Installation

NOTE

- Installation is in the reverse order of removal. Only key points are mentioned below.
- Prior to reinstalling the headliner, ensure that the roof harness and CSAB connectors are fully seated.

1. Install the new harness.

Install the new harness and ensure that it is routed correctly and all the connectors are fully seated.

Right Harness Only: Install the HV battery fan relay into the new harness.

2. Reinstall the left rear seatback with the 2 bolts.

Torque: 36.8 N*m (375 kgf*cm, 27 ft*lbf)

3. Reinstall the front seats.

Torque: 37 N*m (377 kgf*cm, 27 ft*lbf)

2006 – 2009 MY RH seat ONLY: Initialize the Occupant Classification System.

Refer to TIS, applicable model year Prius Repair Manual:

[2006](#) / [2007](#) / [2008](#) / [2009](#) Prius:

Vehicle Interior – Supplemental Restraint Systems – “Supplemental Restraint System: Occupant Classification System: Initialization”

4. Clear DTCs. Cycle the ignition and confirm DTCs do NOT reoccur.
5. Initialize power systems (windows, moonroof, etc.).

Refer to appropriate service bulletin.