SRS Light ON - B1861 Open in Driver Side Knee Airbag Squib Circuit

**Service Category**  
Vehicle Interior

**Section**  
Supplemental Restraint Systems

**Market**  
USA

### Applicability

<table>
<thead>
<tr>
<th>YEAR(S)</th>
<th>MODEL(S)</th>
<th>ADDITIONAL INFORMATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008</td>
<td>IS F</td>
<td></td>
</tr>
<tr>
<td>2006 - 2008</td>
<td>IS250, IS350</td>
<td></td>
</tr>
</tbody>
</table>

**SUPERSESSION NOTICE**

The information contained in this bulletin supersedes Service Bulletin No. L-SB-0167-08.
- Applicability has been updated to include 2008 model year IS F vehicles.

Service Bulletin No. L-SB-0167-08 is obsolete and any printed versions should be discarded.

### Introduction

Some 2006 – 2008 model year IS250 and IS350 and 2008 model year IS F vehicles may exhibit an SRS light ON condition with Diagnostic Trouble Code (DTC) B1861 (Open in Driver Side Knee Airbag Squib Circuit). Follow the Repair Procedure in this bulletin to address this condition.

### Warranty Information

<table>
<thead>
<tr>
<th>OP CODE</th>
<th>DESCRIPTION</th>
<th>TIME</th>
<th>OFP</th>
<th>T1</th>
<th>T2</th>
</tr>
</thead>
<tbody>
<tr>
<td>EL1810</td>
<td>Wire Harness Repair (Driver Side Knee Airbag)</td>
<td>0.6</td>
<td>82141-53###</td>
<td>8B</td>
<td>71</td>
</tr>
</tbody>
</table>

**APPLICABLE WARRANTY**

- This repair is covered under the Lexus Restraint System Warranty. This warranty is in effect for 72 months or 70,000 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

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>PART NAME</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>82144-53020</td>
<td>Repair Wire, Kit</td>
<td>1</td>
</tr>
</tbody>
</table>

Wire Repair Kit Contents

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>PART NAME</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>82999-50010</td>
<td>Terminal, Joint Repair (Sleeve)*</td>
<td>2</td>
</tr>
<tr>
<td>82999-30010</td>
<td>Terminal, Joint Repair (Thermo Contact Tube)*</td>
<td>2</td>
</tr>
<tr>
<td>82144-53020</td>
<td>Wire, Instrument Panel, No. 4*</td>
<td>1</td>
</tr>
</tbody>
</table>

*Wire repair kit contents are not available separately.

Required Tools & Equipment

<table>
<thead>
<tr>
<th>SPECIAL SERVICE TOOLS (SST)</th>
<th>PART NUMBER</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plastic Pry Tool Kit*</td>
<td>00002-06020-02</td>
<td>1</td>
</tr>
<tr>
<td>Crimping Tool S*</td>
<td>09929-00020-01</td>
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</tbody>
</table>

*Essential SST.

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

<table>
<thead>
<tr>
<th>REQUIRED EQUIPMENT</th>
<th>SUPPLIER</th>
<th>PART NUMBER</th>
<th>QTY</th>
</tr>
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<tr>
<td>Techstream 2.0*</td>
<td>ADE</td>
<td>TS2UNIT</td>
<td>1</td>
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<tr>
<td>Techstream Lite</td>
<td>ADE</td>
<td>TSLITEPDLR01</td>
<td></td>
</tr>
<tr>
<td>Techstream Lite (Green Cable)</td>
<td>ADE</td>
<td>TSLP2DLR01</td>
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</tr>
</tbody>
</table>

*Essential SST.

**NOTE**
- Only ONE of the Techstream units listed above is required.
- Software version 13.30.018 or later is required.
- Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787.
SRS Light ON - B1861 Open in Driver Side Knee Airbag Squib Circuit

Repair Procedure

NOTE
• This SRS wire harness repair has ONLY been approved for vehicles covered in this Service Bulletin and is NOT approved for use on ANY other vehicles.
• Follow the procedures outlined in this Service Bulletin to prevent damage to the vehicle.

1. Using Techstream, check for the following stored DTC:
   B1861 – Open in Driver Side Knee Airbag Squib Circuit
   Is the DTC present or in history?
   • YES — Continue to step 2.
   • NO — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.

2. Remove the driver side knee airbag.
   Refer to TIS, applicable model year and model Repair Manual:
   • 2006 / 2007 / 2008 IS250:
   • 2006 / 2007 / 2008 IS350:
   • 2008 IS F:

3. Cut and remove the tape around the white plastic 90° bend on the driver side knee airbag connector wire harness.
Repair Procedure (continued)

4. Remove and save the white plastic 90° bend.

5. Cut and remove the electrical tape along the corrugated tubing up to the middle of the wire harness label, leaving one side of the label attached to the corrugated tubing.

6. Pull the wires out of the corrugated tubing to expose the wires up to the attached side of the label.

7. Remove the electrical tape holding the two wires together.

8. Cut 2 in. off the yellow with black stripe wire on the wire instrument panel No. 4 replacement connector.
Repair Procedure (continued)

9. Align the wire instrument panel No. 4 replacement connector with the existing wire harness connector.

10. Cut the existing wire harness wires to the same length as the wire instrument panel No. 4 wires (make sure each wire matches with the corresponding color wire).

11. Cut the two thermo tubing pieces to 1¼ in. each.
Repair Procedure (continued)

12. Remove 8 mm (0.32 in.) of insulation from the two vehicle wire harness wires and the two wires on the wire instrument panel No. 4 replacement connector to prepare for crimping.

   NOTE
   Do NOT remove more than 11 mm of insulation.

13. Place the joint repair terminal sleeve into the 0.5 mm crimp die of the SST wire crimper.

   NOTE
   The SST wire crimper 09929-00020-01 is the ONLY tool approved to perform this repair. Do NOT use any other tool to crimp the sleeve.
Repair Procedure (continued)

14. Insert the wire instrument panel No. 4 replacement connector wire into the sleeve.

15. With the joint repair terminal sleeve placed correctly into the SST wire crimper, crimp one side of the sleeve in the area shown by closing the handles until they release.
Repair Procedure (continued)

16. Crimp a sleeve onto each of the wire instrument panel No. 4 replacement connector wires as shown.

17. Install the thermo tubing onto the wire instrument panel No. 4 replacement connector wires and slide them out of the way BEFORE attaching to the vehicle instrument panel wire harness.

   **NOTE**
   
   The thermo tubing CANNOT be installed after crimping the wire instrument panel No. 4 replacement connector to the vehicle instrument panel wire harness unless they are already inserted as shown.

18. Install and crimp sleeves onto each of the vehicle instrument panel wire harness wires following the same method used to crimp sleeves to wire instrument panel No. 4 replacement connector wires.

   **NOTE**
   
   The wire instrument panel No. 4 replacement connector wires are color coded to match the existing harness.

19. Lightly tug on each connection to make sure the wire is securely crimped.
Repair Procedure (continued)

20. Center the thermo tubing over the center of the sleeve.

21. Using a heat gun, heat the thermo tubing until it shrinks and seals the repaired connection.

**NOTICE**
- When using the heat gun, keep the heat gun about 10 mm (0.39 in.) from the thermo tubing.
- Protect the surrounding areas (i.e., interior panels and carpet) from heat damage.

**NOTE**
During the sealing process, adhesive may seep from the thermo tubing. This is a normal condition and part of the sealing properties of the thermo tube.
Repair Procedure (continued)

22. Tape the wires together and reinstall the repaired wires in the corrugated tubing.

23. Tape the free end of the wire harness label with electrical tape.

24. Reinstall and tape the white plastic 90° bend.  

25. Reconnect and reinstall the driver side knee airbag.  
   Refer to TIS, applicable model year and model Repair Manual:
   - 2006 / 2007 / 2008 IS250:  
   - 2006 / 2007 / 2008 IS350:  
   - 2008 IS F:  

26. Clear the codes in the SRS system.

27. Recheck the vehicle for ANY SRS codes.