

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

Service Category Vehicle Interior

Section Supplemental Restraint Systems

Market USA

Lexus Supports
ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2008	IS F	
2006 - 2008	IS250, IS350	

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Service Bulletin No. L-SB-0167-08 is obsolete and any printed versions should be discarded.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

OP CODE	DESCRIPTION	TIME	OFP	T1	T2
EL1810	Wire Harness Repair (Driver Side Knee Airbag)	0.6	82141-53###	8B	71

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.

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

Parts Information

PART NUMBER	PART NAME	QTY
82144-53020	Repair Wire, Kit	1

Wire Repair Kit Contents

PART NUMBER	PART NAME	QTY
82999-50010	Terminal, Joint Repair (Sleeve)*	2
82999-30010	Terminal, Joint Repair (Thermo Contact Tube)*	2
82144-53020	Wire, Instrument Panel, No. 4*	1

*Wire repair kit contents are not available separately.

Required Tools & Equipment

SPECIAL SERVICE TOOLS (SST)	PART NUMBER	QTY
Plastic Pry Tool Kit*	00002-06020-02	1
Crimping Tool S*	09929-00020-01	1

*Essential SST.

NOTE

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

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
Techstream 2.0*	ADE	TS2UNIT	1
Techstream Lite		TSLITEPDLR01	
Techstream Lite (Green Cable)		TSLP2DLR01	

*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:
Vehicle Interior – Supplemental Restraint Systems – “Supplemental Restraint System: Driver Side Knee Airbag Assembly: Removal”
 - [2006](#) / [2007](#) / [2008](#) IS350:
Vehicle Interior – Supplemental Restraint Systems – “Supplemental Restraint System: Driver Side Knee Airbag Assembly: Removal”
 - [2008](#) IS F:
Vehicle Interior – Supplemental Restraint Systems – “Supplemental Restraint System: Driver Side Knee Airbag Assembly: Removal”
3. Cut and remove the tape around the white plastic 90° bend on the driver side knee airbag connector wire harness.

Figure 1.



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

Repair Procedure (continued)

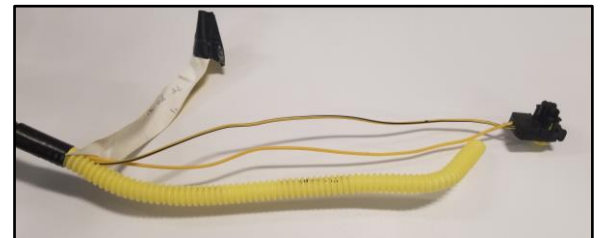
4. Remove and save the white plastic 90° bend.

Figure 2.



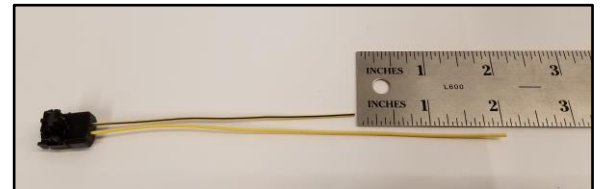
5. Cut and remove the electrical tape along the corrugated tubing up to the middle of the wire harness label, leaving one side of the label attached to the corrugated tubing.
6. Pull the wires out of the corrugated tubing to expose the wires up to the attached side of the label.

Figure 3.



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.

Figure 4.

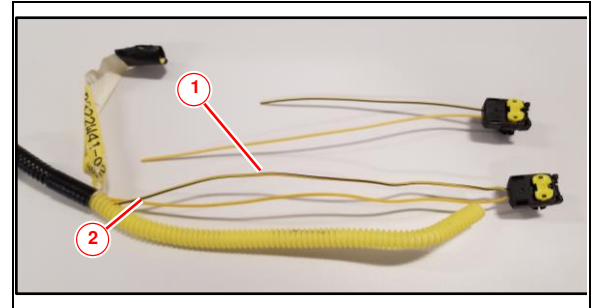


SRS Light ON - B1861 Open in Driver Side Knee Airbag Squib Circuit

Repair Procedure (continued)

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

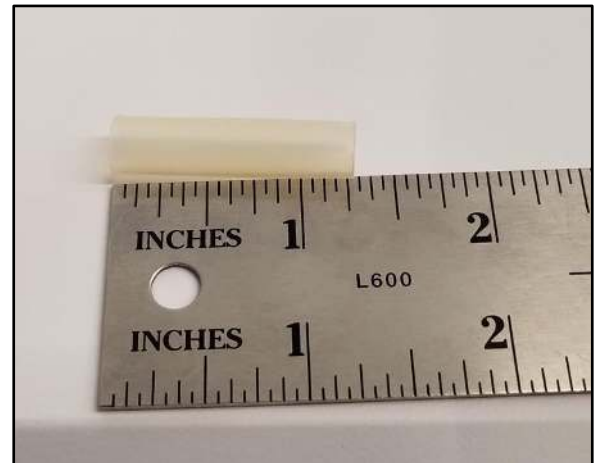
Figure 5.



1	Cut Yellow With Black Stripe Wire Here
2	Cut Yellow Wire Here

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.

Figure 6.



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

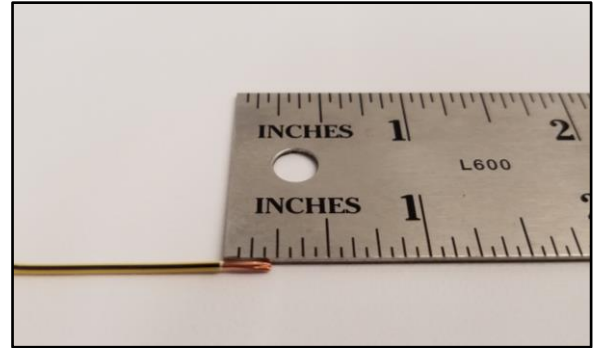
Repair Procedure (continued)

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.

Figure 7.

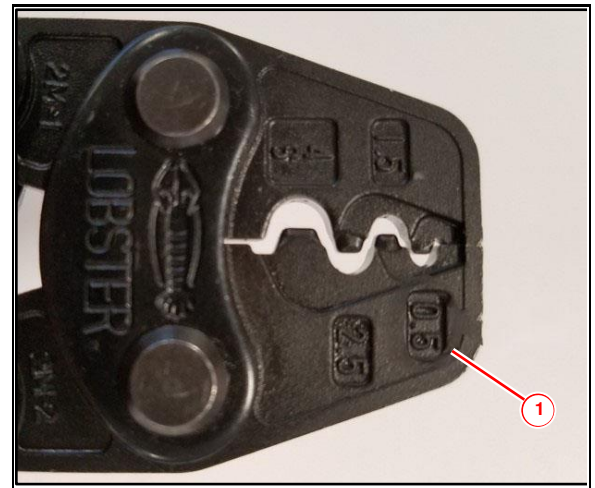


13. Place the joint repair terminal sleeve into the 0.5 mm crimp die of the SST wire crimper.

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.

Figure 8.



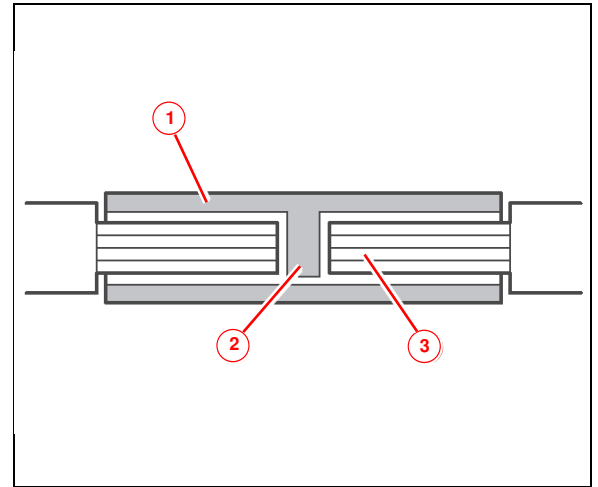
1 Joint Repair Terminal Sleeve Placement

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

Repair Procedure (continued)

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

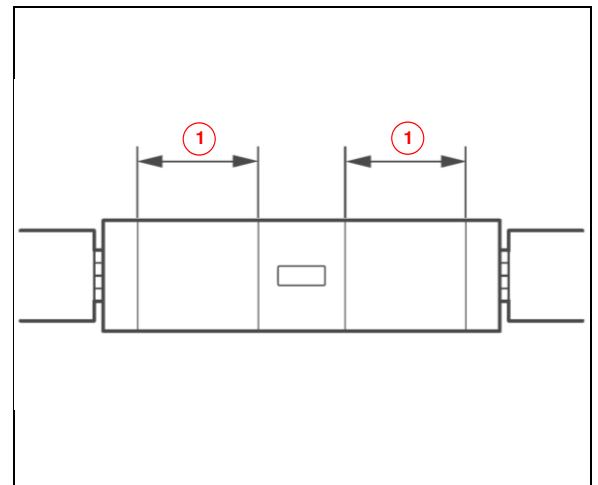
Figure 9.



1	Sleeve
2	Wire Stop
3	Wire

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.

Figure 10.



1	Crimp This Portion
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SRS Light ON - B1861 Open in Driver Side Knee Airbag Squib Circuit

Repair Procedure (continued)

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

Figure 11.



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.

Figure 12.

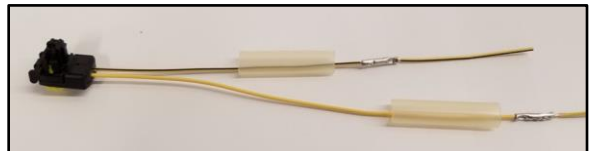


18. Install and crimp sleeves onto each of the vehicle instrument panel wire harness wires following the same method used to crimp sleeves to wire instrument panel No. 4 replacement connector wires.

NOTE

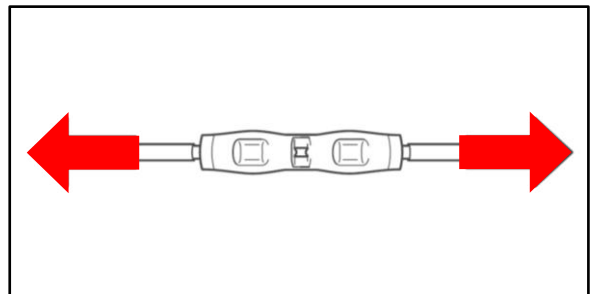
The wire instrument panel No. 4 replacement connector wires are color coded to match the existing harness.

Figure 13.



19. Lightly tug on each connection to make sure the wire is securely crimped.

Figure 14.

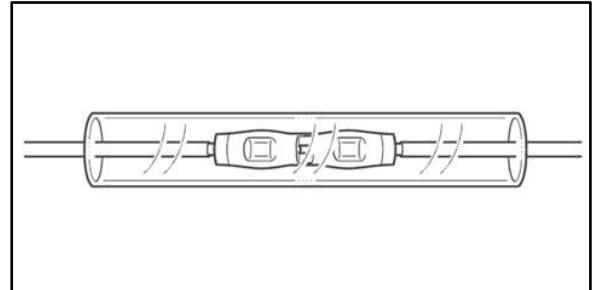


SRS Light ON - B1861 Open in Driver Side Knee Airbag Squib Circuit

Repair Procedure (continued)

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

Figure 15.

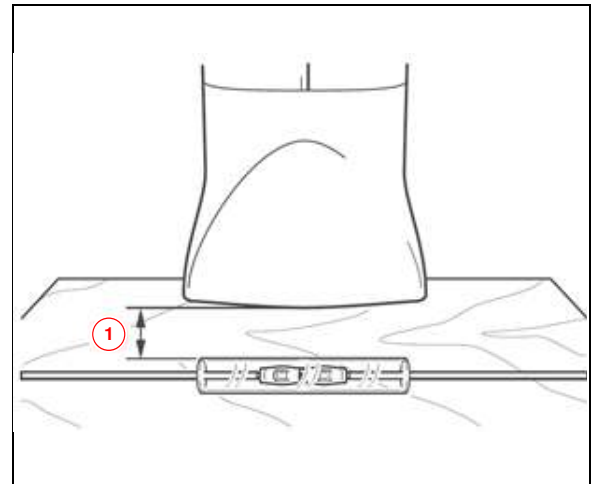


21. Using a heat gun, heat the thermo tubing until it shrinks and seals the repaired connection.

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.

Figure 16.

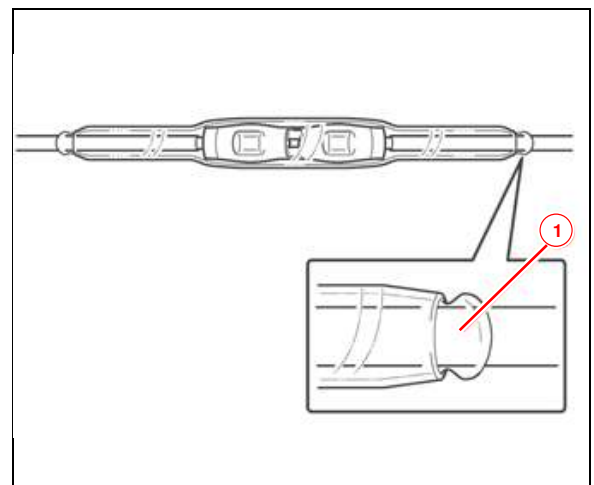


1 10 mm

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.

Figure 17.



1 Adhesive

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

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.

Figure 18.



25. Reconnect and reinstall the driver side knee airbag.
Refer to TIS, applicable model year and model Repair Manual:
 - [2006](#) / [2007](#) / [2008](#) IS250:
Vehicle Interior – Supplemental Restraint Systems – “Supplemental Restraint System: Driver Side Knee Airbag Assembly: Installation”
 - [2006](#) / [2007](#) / [2008](#) IS350:
Vehicle Interior – Supplemental Restraint Systems – “Supplemental Restraint System: Driver Side Knee Airbag Assembly: Installation”
 - [2008](#) IS F:
Vehicle Interior – Supplemental Restraint Systems – “Supplemental Restraint System: Driver Side Knee Airbag Assembly: Installation”
26. Clear the codes in the SRS system.
27. Recheck the vehicle for ANY SRS codes.