

© 2009 Mazda Motor of America, Inc.

Subject: AIRBAG WARNING LIGHT ON - B1342, B2477 AND / OR C1946 SET	Bulletin No: 08-002/09
	Last Issued: 03/06/2009

BULLETIN NOTE

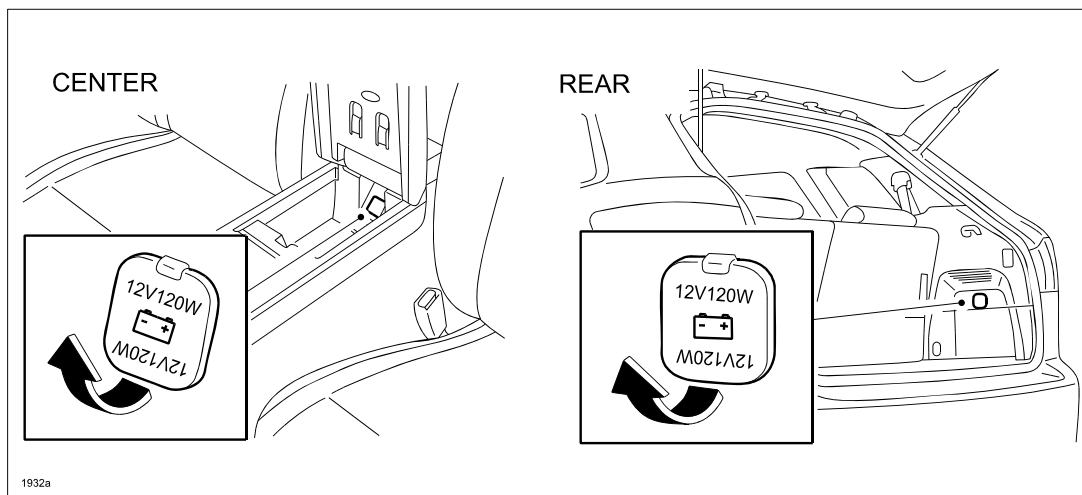
- This bulletin supersedes the previous bulletin 08-003/08, issued 5/22/2008. The DESCRIPTION, REPAIR PROCEDURE, PART(S) INFORMATION and WARRANTY INFORMATION sections have been revised.
- Changes are noted below beside the change bar in Red.

APPLICABLE MODEL(S)/VINS

2007-2008 CX-9 with VINs lower than JM3 TB**** ** 132675 (built before September 4, 2007)

DESCRIPTION

On some vehicles, when a power plug with improper fabrication (such as a phone charger) is inserted into either of the accessory sockets (center and/or rear), the airbag warning light may illuminate with DTC B1342, B2477 AND / OR C1946 stored in memory. Due to the improper power plug, the center or rear accessory socket fuse blows, and a short-circuit occurs in the SAS control module, causing the airbag warning light illumination with DTC B1342, B2477 AND / OR C1946 set. **Despite the DTCs and airbag warning light being illuminated, the airbag system will continue to function.**



As a mass-production change, the airbag harness has been modified. Customers having this concern should have their vehicle repaired using the following repair procedure.

CONSUMER NOTICE: The information and instructions in this bulletin are intended for use by skilled technicians. Mazda technicians utilize the proper tools/equipment and take training to correctly and safely maintain Mazda vehicles. These instructions should not be performed by "do-it-yourselfers." Customers should not assume this bulletin applies to their vehicle or that their vehicle will develop the described concern. To determine if the information applies, customers should contact their nearest authorized Mazda dealership. Mazda North American Operations reserves the right to alter the specifications and contents of this bulletin without obligation or advance notice. All rights reserved. No part of this bulletin may be reproduced in any form or by any means, electronic or mechanical---including photocopying and recording and the use of any kind of information storage and retrieval system ---without permission in writing.

REPAIR PROCEDURE

When you encounter a customer complaint on this concern, first verify that the accessory socket (center and/or rear) fuse has been blown and the airbag warning light illuminates with DTC B1342, B2477 and/or C1946.

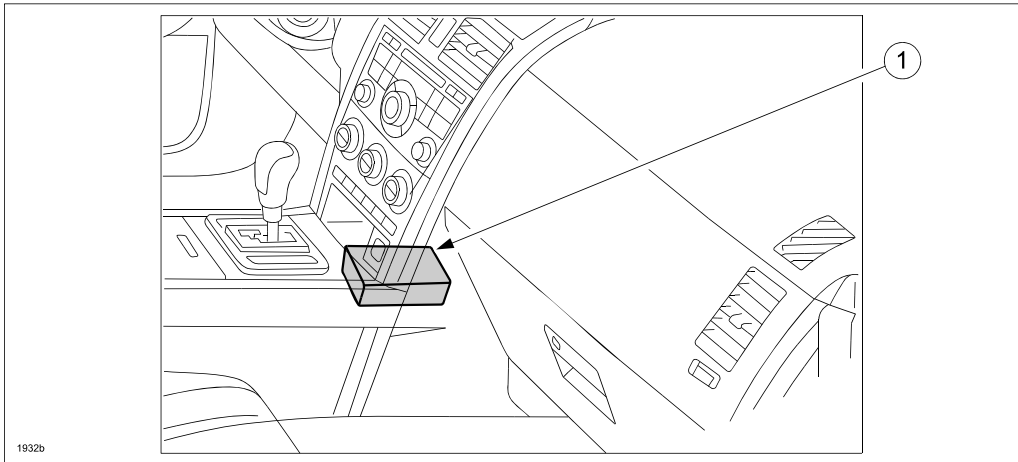
- If the symptom of the customer's vehicle fits the above-mentioned, replace the SAS control module with a new one, replace the fuse with a new one, then perform SSP78.
- If it is a different symptom (there is no blown-out accessory fuse), be sure to follow the Workshop Manual for the troubleshooting.

IMPORTANT:

- Be sure to explain to the customer that, when they use any electrical device (such as games, mobile phone, etc.) in the vehicle cabin, please use the power socket which is recommended by the electronic device maker. Also, please advise the customer not to use any electrical device with greater than 120 W (DC 12 V, 10 A).

After verifying customer concern, perform the following repair procedures in order:

- **A - FUSE INSPECTION AND REPLACEMENT**
- **B - SAS CONTROL MODULE CONFIGURATION AND REMOVAL / INSTALLATION (1)**
- **C - PERFORM SSP78**



A - FUSE INSPECTION AND REPLACEMENT

1. Visually inspect OUTLET CTR (15A) and OUTLET RR (15A) fuses located in the main fuse block in the engine compartment. Refer to MS3 online information or Workshop Manual WIRING DIAGRAMS.

NOTE:

- In the wiring diagram these fuses are referred to as 19 and 20.
- In the owners manual these fuses are referred to as 17 and 18.

2. Replace any blown fuses with a new 15A fuse (9970-51-315).
3. Proceed to B - SAS CONTROL MODULE CONFIGURATION AND REMOVAL / INSTALLATION.

B - SAS CONTROL MODULE CONFIGURATION AND REMOVAL / INSTALLATION

WARNING:

- **HANDLING THE SAS CONTROL MODULE IMPROPERLY CAN ACCIDENTALLY DEPLOY THE AIR BAG MODULES AND SEAT BELT PRETENSIONERS, WHICH MAY SERIOUSLY INJURE YOU. READ THE SERVICE WARNINGS AND CAUTIONS BEFORE HANDLING THE AIR BAG MODULE. BE VERY CAREFUL, BE SURE THE IGNITION IS OFF AND PROVIDE NO ELECTRICAL SOURCE TO THESE DEVICES WHILE YOU ARE WORKING AROUND THEM.**

- **CONNECTING THE SAS CONTROL MODULE WITH THE SAS CONTROL MODULE NOT SECURELY FIXED TO THE VEHICLE IS DANGEROUS. WHEN THE IGNITION SWITCH IS TURNED TO THE ON POSITION, THE SAS CONTROL MODULE COULD TILT CAUSING THE SAS CONTROL MODULE TO DETECT THAT THE VEHICLE IS IN A ROLLOVER CON-DITION, WHICH MAY ACCIDENTALLY OPERATE (DEPLOY) THE CURTAIN AIR BAG MODULE AND SEAT BELT PRETENSIONERS. THEREFORE, SECURELY FIX THE SAS CONTROL MODULE TO THE VEHICLE BEFORE CONNECTING THE CONNECTORS AND TURNING THE IGNITION SWITCH TO THE ON POSITION. BE VERY CAREFUL AND PROVIDE NO ELECTRICAL SOURCE TO THESE DEVICES.**

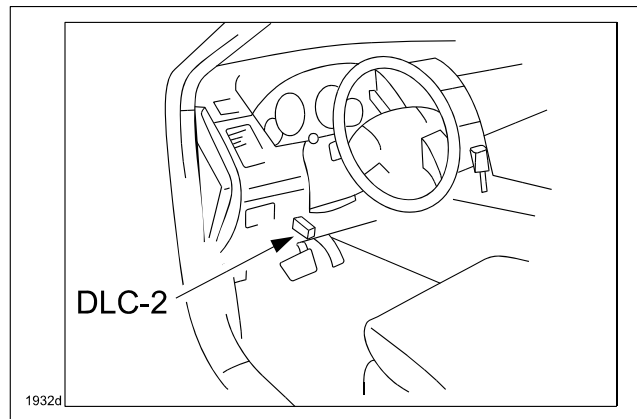
CAUTION:

- If configuration is not completed before installing the new SAS control module, DTC B2477 will be displayed.

NOTE:

- If IDS cannot retrieve configuration data from the old SAS module, a screen will automatically appear that requires As-built data.

1. Record customer radio station presets.
2. Connect the M-MDS to the DLC-2 connector.

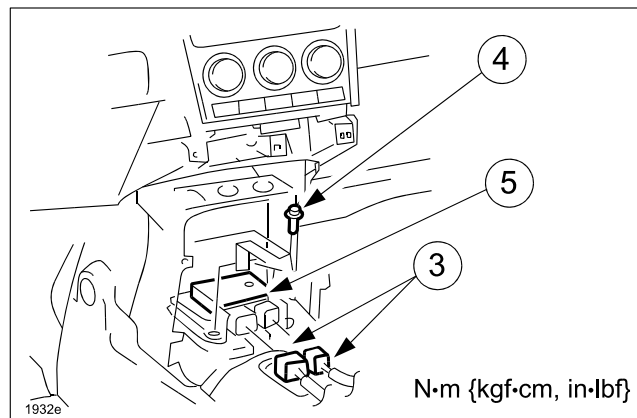


3. Select IDS icon (from desktop).
4. Select "START NEW SESSION," then select "ALL OTHERS".
5. Press tick (check mark box located at lower right of screen).
6. Turn ignition switch ON (do not start engine).
7. Press tick. IDS now establishes communication to PCM.
8. You may see several prompts. Please select the proper application for the vehicle.
9. "Vehicle specifications" will be shown. Select YES.
10. Confirm VIN is correct for vehicle being serviced. Press tick.
11. Screen shows "Vehicle Specification". Select TOOLBOX, then "MODULE PROGRAMMING". Press tick.
12. Select "PROGRAMMABLE MODULE INSTALLATION".
13. Select "RCM". Press tick.
14. Follow on-screen instructions to perform configuration.

• **NOTE:**

- M-MDS will instruct you when to replace the module.

15. Turn the ignition switch to the LOCK position.
16. Disconnect the negative battery cable and wait for 1 min. or more.
17. Remove the following:
 - Dashboard under cover (passenger side). Refer to MS3 online information or Workshop Manual section 09-17 - DASHBOARD UNDER COVER REMOVAL / INSTALLATION.
 - Side wall. Refer to MS3 online information or Workshop Manual section 09-17 - SIDE WALL REMOVAL / INSTALLATION.
 - Console panel (RH). Refer to MS3 online information or Workshop Manual section 09-17 - CONSOLE PANEL REMOVAL / INSTALLATION.
18. Disconnect both SAS module connectors (3).



19. Remove the bolts/nuts (4).
20. Remove the SAS module (5) in the direction of the arrow.
21. Install the new SAS module.
22. Reconnect negative battery cable.

NOTE:

- Ensure M-MDS is connected to the vehicle. Follow on-screen prompts to properly complete module replacement and configuration.

23. Turn the ignition switch to the ON position and follow any other additional screen prompts.

NOTE:

- After completing the configuration, turn the ignition switch to the ON position for 20 s or more.

24. Verify that the air bag system warning light illuminates for approx. 6 seconds and goes out.
 - If the air bag system warning light does not operate properly, refer to appropriate MS3 online information or Workshop Manual section 08-03 - TROUBLESHOOTING INDEX.
 - If the air bag system warning light operates properly, proceed to C - PERFORM SSP78.

C - PERFORM SSP78

1. Perform SSP78 - 2007-2009 CX-9 AIR BAG WARNING LIGHT.
2. Set recorded customer radio station presets.
3. Set clock.
4. Perform power window initialization procedure. Refer to MS3 online information or Workshop Manual section 09-12 - POWER WINDOW INITIALIZATION PROCEDURE.
5. Verify repair.

IMPORTANT:

- Be sure to explain to the customer that, when they use any electrical device (such as games, mobile phone, etc.) in the vehicle cabin, please use the power socket which is recommended by the electronic device maker. Also, please advise the customer not to use any electrical device with greater than 120 W (DC 12 V, 10 A).

PART(S) INFORMATION

Part Number	Description	Qty.
TD11-57-K30D	SAS Control Module	1
9970-51-315	Fuse, 15A	1

WARRANTY INFORMATION

NOTE:

- This warranty information applies only to verified customer complaints on vehicles eligible for warranty repair.
- This warranty information is only applicable to SAS control module replacement. For SSP78, please claim separately as per the special warranty information established for SSP78.
- Coverage for this repair would be under the New Vehicle Warranty - Safety Restraint System.
- Additional diagnostic time cannot be claimed for this repair.

Warranty Type	A
Symptom Code	64
Damage Code	9R
Part Number Main Cause	TD11-57-K30D
Quantity	1
Operation Number / Labor Hours:	XXE07XRX / 0.4 Hrs.