

Subject: AIRBAG WARNING LIGHT ILLUMINATED - DTC B1994 AND / OR B1998 SET	Bulletin No: 08-008/05
	Last Issued: 10/21/2005

APPLICABLE MODEL(S)/VINS

2004-2005 RX-8 built before April 15, 2005 with VINs of JM1FE*****154081 or lower

DESCRIPTION

Some 2004-2005 RX-8 vehicles may experience an illuminated air bag warning light with one or both of the following DTCs stored in memory.

- B1994 - Driver's-side side air bag module circuit resistance high
- B1998 - Passenger's-side side air bag module circuit resistance high

This may indicate a poor contact between the terminals and the harness in the side air bag module connector. A revised overlay harness has been developed to repair this issue. This overlay harness will be installed over the existing main harness. Overlay harness installation requires cutting off existing air bag harness connectors and plugging in connectors from overlay harness and routing harness accordingly.

Customers having this concern should have their vehicle repaired using the following repair procedure.

REPAIR PROCEDURE

WARNING:

- **Consult Workshop Manual section 08-10 SERVICE WARNINGS and SERVICE CAUTIONS before servicing the air bag system. Failure to do so may result in injury.**

1. Verify customer concern.
2. Prepare vehicle for installation of overlay harness.
 - a. Record customer radio station presets.
 - b. Turn ignition switch off and disconnect negative battery cable. Wait at least 1 minute for air bag system to power down before proceeding to step c.

WARNING:

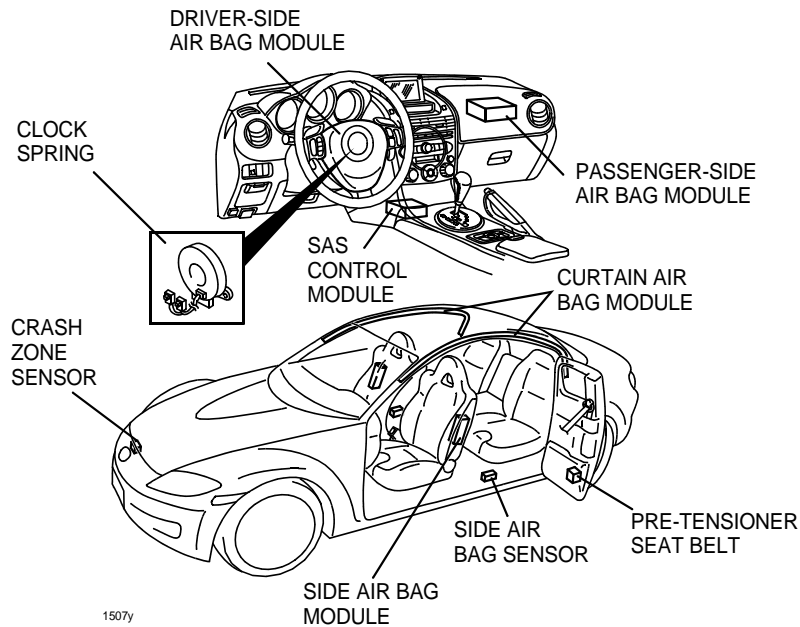
- **Wait a minimum of 1 minute for air bag system to power down. Failure to do so may result in injury.**
- c. Remove floor covering (carpet). See appropriate Workshop manual section 09-17 - FLOOR COVERING REMOVAL / INSTALLATION.

WARNING:

- Use care when cutting off connectors. Be sure that only the wires for the air bag connector are cut. If air bag harness and another vehicle harness is cut at the same time, the air bag could deploy and cause serious injury. Double check where and what wires to cut.

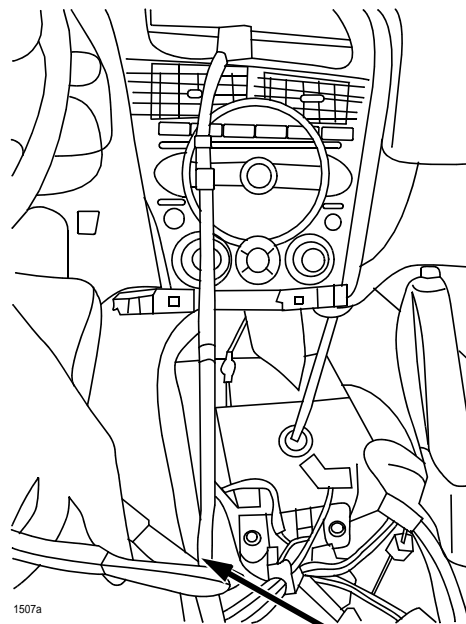
3. Overlay harness installation preparation.

- a. Disconnect SAS module connector. SAS module is located below center panel on transmission tunnel.



- b. Pull out the SAS module harness. Cut SAS module harness after body anchor, but before the main harness branch.

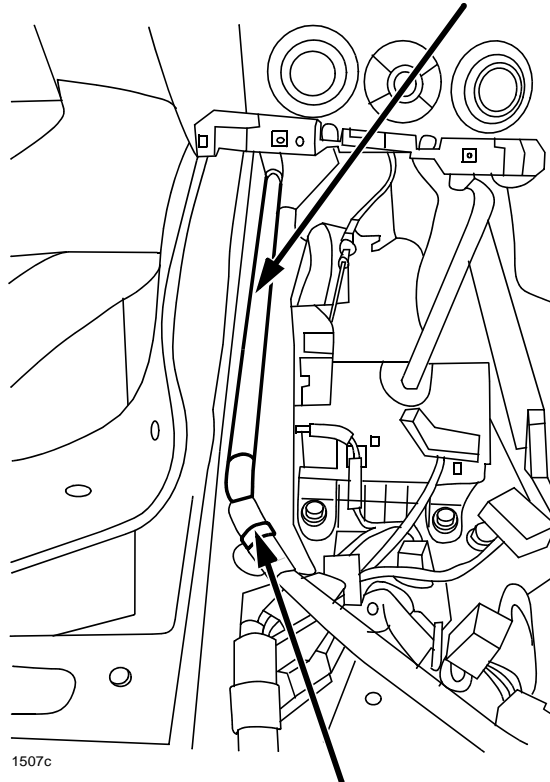
**DISCONNECT SAS MODULE CONNECTOR
AND PULL OUT OF CONSOLE**



**CUT SAS MODULE HARNESS
AT THIS POINT AND REMOVE
BODY ANCHOR**

- c. Route overlay harness exactly as original SAS module. Connect overlay harness connector to SAS module and secure overlay harness to body anchor.

**CONNECT OVERLAY HARNESS
TO SAS MODULE AND ROUTE
LIKE ORIGINAL HARNESS**



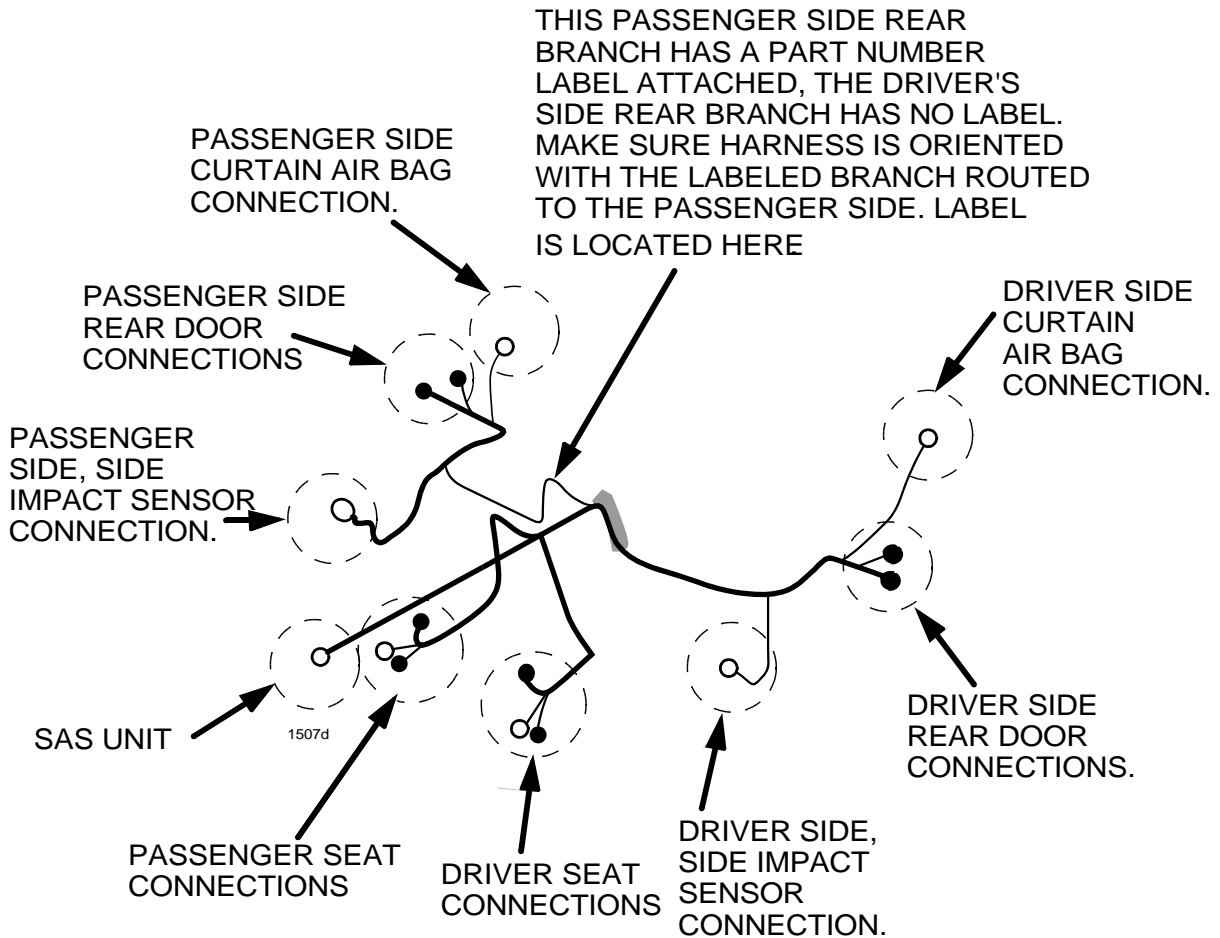
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**SECURE OVERLAY
HARNESS USING
BODY ANCHOR**

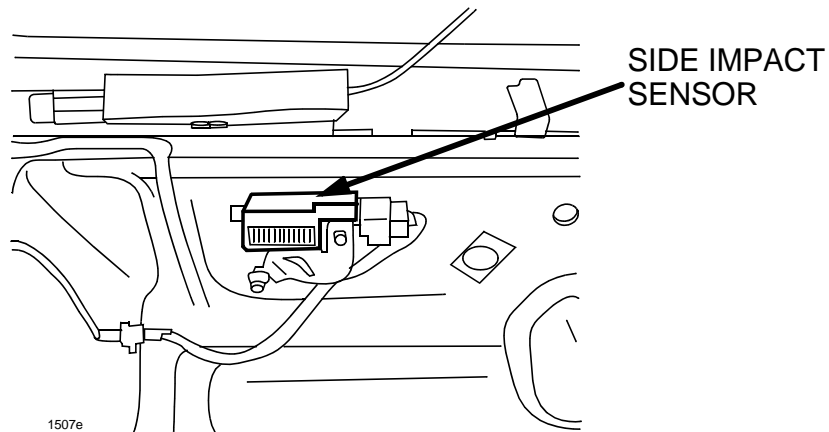
d. Place overlay harness onto floor of vehicle and route connectors to the proper location.

NOTE:

- Follow original vehicle harness routing as close as possible. Use component location image at beginning of bulletin to aid in overlay.

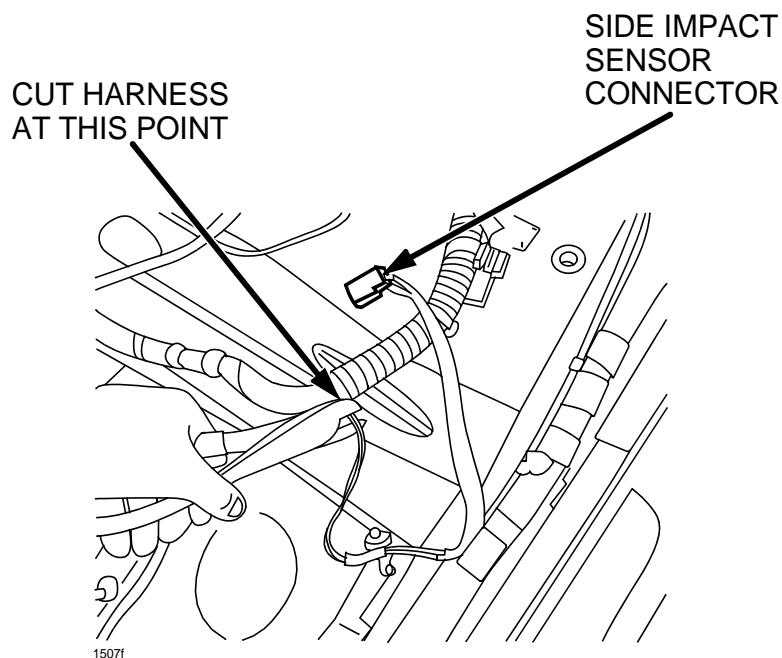


4. Route and connect overlay harness to side impact sensors.
 - a. Starting at driver's side, remove metal protector from side impact sensor to gain access to connector and harness anchor. For additional information, refer to appropriate Workshop manual section 08-10 - SIDE AIR BAG SENSOR REMOVAL / INSTALLATION.



DRIVER SIDE SHOWN,
PASSENGER SIDE SIMILAR

- b. Disconnect sensor and remove harness anchors from body up to branch point.
 - c. Cut side impact sensor harness at branch point.



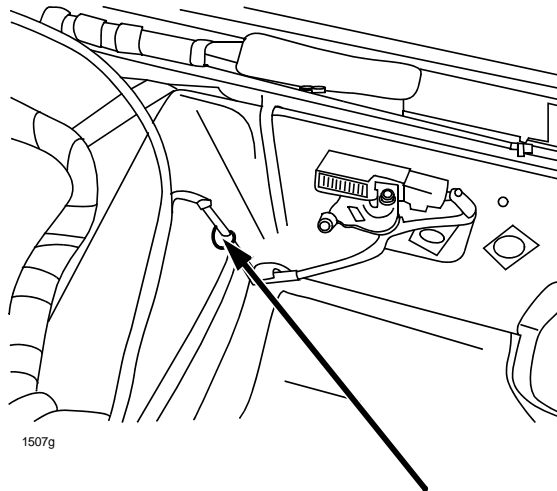
DRIVER SIDE SHOWN,
PASSENGER SIDE SIMILAR

- d. Connect overlay harness connector to side impact sensor.

NOTE:

- Driver's side overlay harness side impact sensor connector wire colors: Y/B and W/R.
 - Passenger's side overlay harness side impact sensor connector wire colors: G and G/R.
- e. Fasten overlay harness body anchors to body.

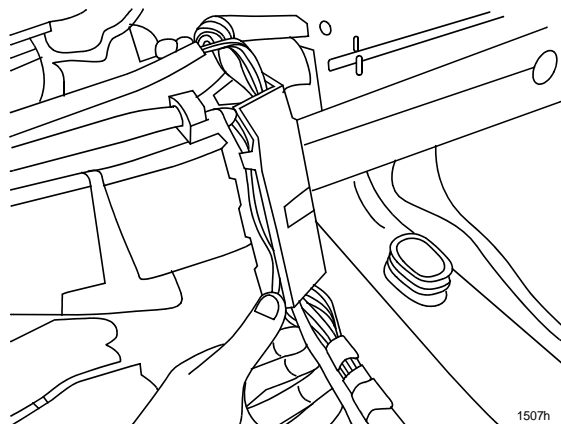
DRIVER SIDE SHOWN,
PASSENGER SIDE SIMILAR



PLUG OVERLAY HARNESS
BODY ANCHORS INTO ORIGINAL
HARNESS MOUNTING POINTS

- f. Install metal protector to impact sensor. Torque bolts to 7.9-11.7 N.m (70-103 in. lb).
g. Open original body harness protector and place overlay harness rear branch inside.

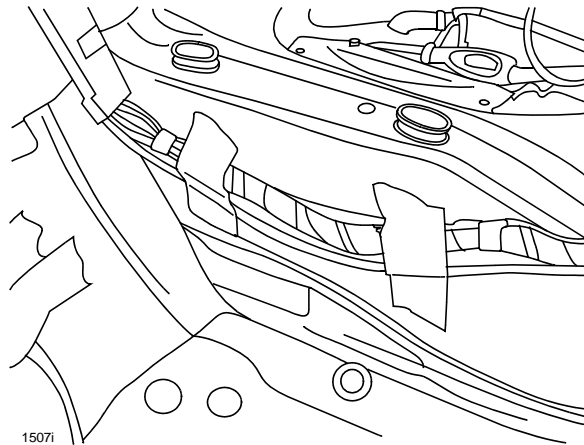
DRIVER SIDE SHOWN,
PASSENGER SIDE SIMILAR



INSERT OVERLAY HARNESS INTO HARNESS
PROTECTOR AND CLOSE PROTECTOR

- h. Close body harness protector.
- i. Using cloth tape, secure overlay harness rear branch to body. Repeat step 4 for passenger's side.

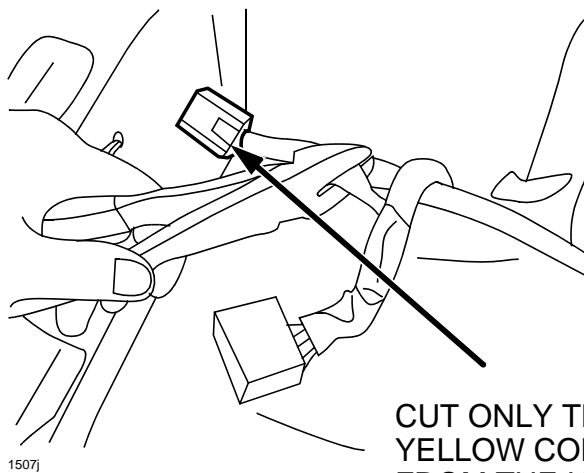
**DRIVER SIDE SHOWN,
PASSENGER SIDE SIMILAR**



**TAPE OVERLAY HARNESS TO
BODY USING CLOTH TAPE**

- 5. Route and connect overlay harness to driver's and passenger's seats harness connector.
 - a. Starting at driver's side, locate original Yellow two-pin connector on vehicle harness (driver's side = Y and LG wires, passenger's side = R/Y and L/W wires). Cut original vehicle harness at branch point.

**DRIVER SIDE SHOWN
PASSENGER SIDE SIMILAR**

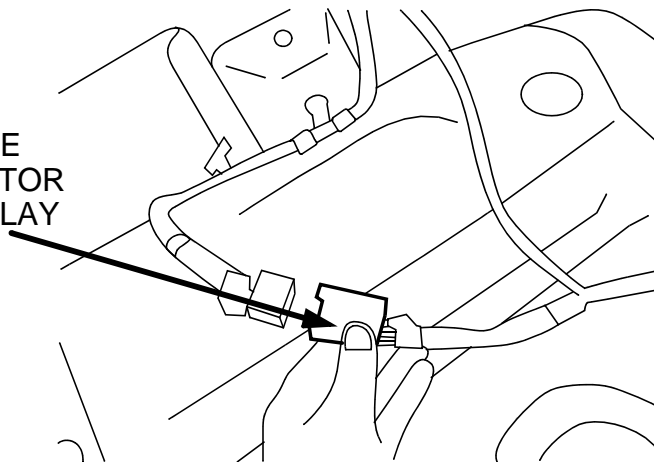


**CUT ONLY THE
YELLOW CONNECTOR
FROM THE HARNESS**

- b. Connect the White 14-pin male overlay harness connector to the existing seat connector (white 14-pin female). Wrap this connection in electrical tape.

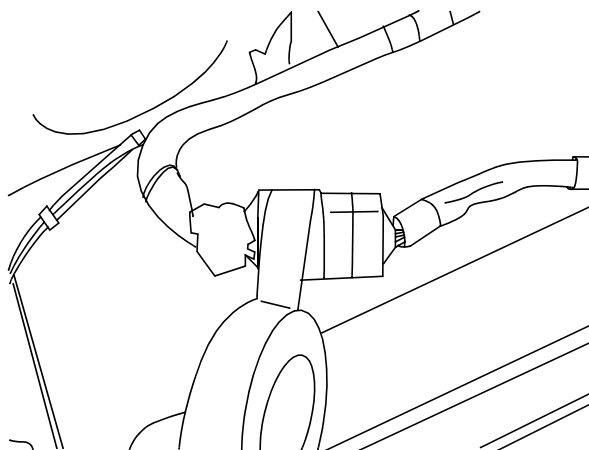
DRIVER SIDE SHOWN,
PASSENGER SIDE SIMILAR

PLUG THE WHITE
14-PIN CONNECTOR
INTO THE OVERLAY
HARNESS



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DRIVER SIDE SHOWN,
PASSENGER SIDE SIMILAR



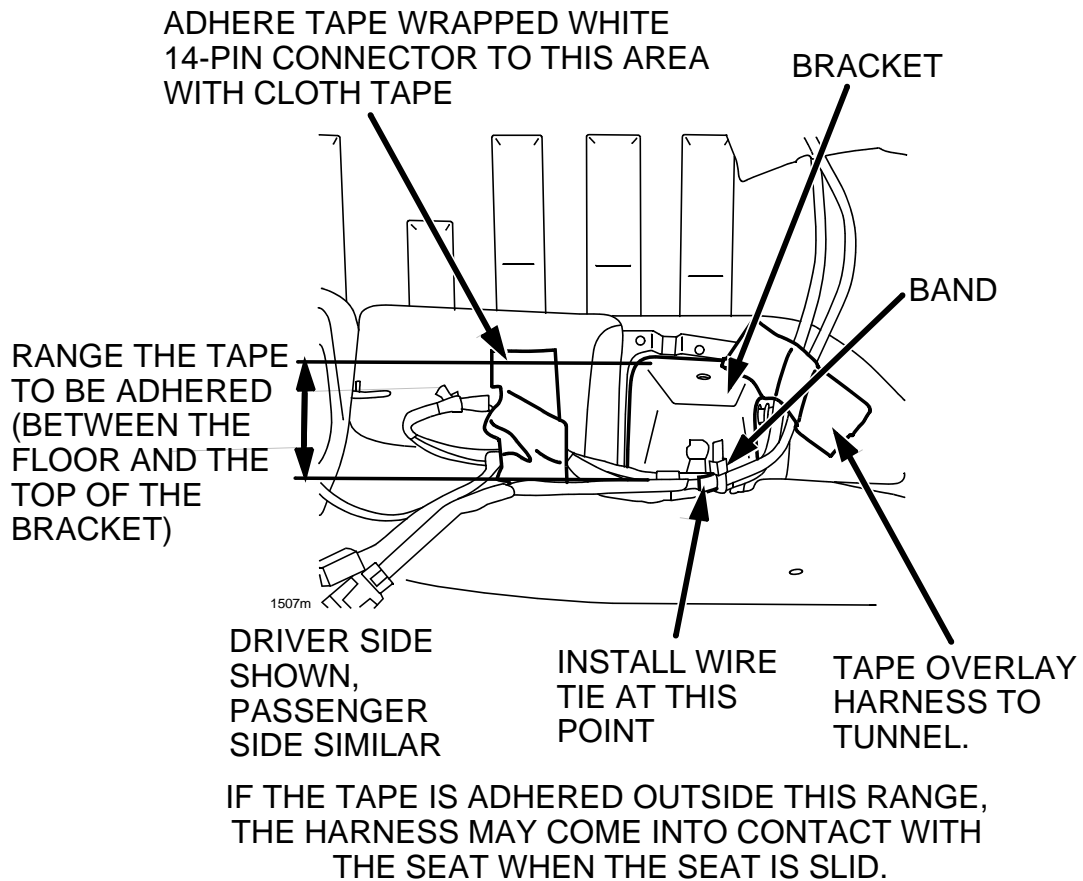
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WRAP THE WHITE 14-PIN CONNECTOR
WITH ELECTRICAL TAPE

- c. Using cloth tape, secure tape-wrapped connection to the vehicle floor in area shown.
- d. Tape and plastic tie overlay harness into position as shown. Repeat step 5 for passenger's side.

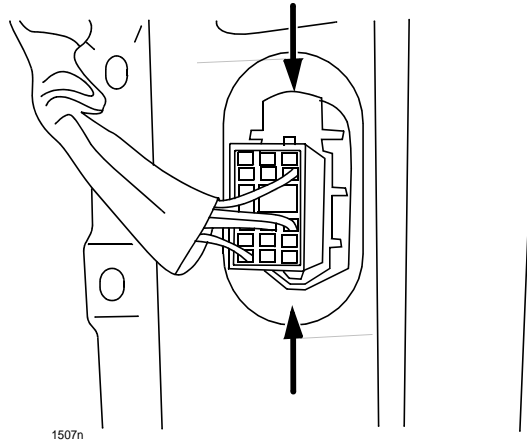
NOTE:

- The overlay harness White 14-pin female connector and Yellow 2-pin connector will plug into seat when seat is re-installed.



6. Route and connect overlay harness to rear doors.
 - a. Starting at driver's side, press connector mounting tabs (located on top and bottom of connector) to release the pass-through type connection from the body. Push connection through door jamb to outside of vehicle.

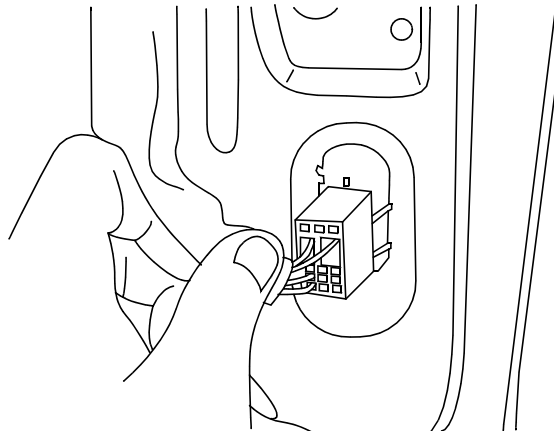
**PRESS DOWN ON TABS TO
RELEASE CONNECTOR FROM BODY**



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**DRIVER SIDE SHOWN,
PASSENGER SIDE SIMILAR**

REMOVE CONNECTOR FROM BODY

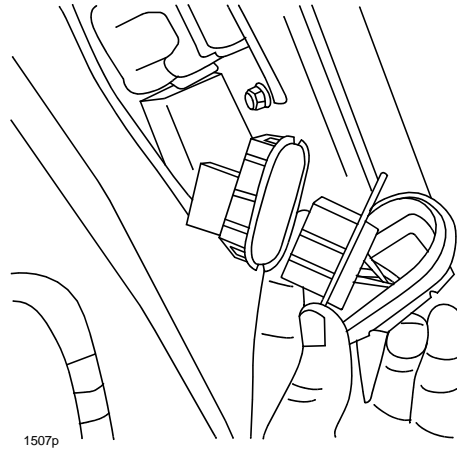


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**DRIVER SIDE SHOWN,
PASSENGER SIDE SIMILAR**

- b. Peel back weather seal from connector and disconnect door connector from original harness connector.

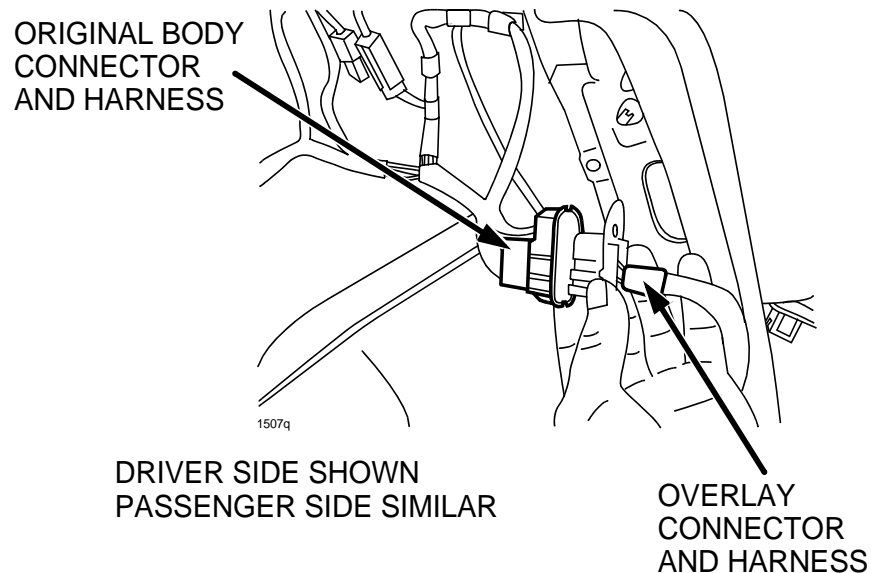
**DRIVER SIDE SHOWN,
PASSENGER SIDE SIMILAR**



**PULL BACK SEAL AND DISCONNECT
CONNECTOR HALVES**

- c. Push original harness connector back through to interior of vehicle.
d. Connect overlay harness connector to original harness connector. Wrap this connection in electrical tape.

**CONNECT OVERLAY CONNECTOR TO
ORIGINAL BODY DOOR CONNECTOR**

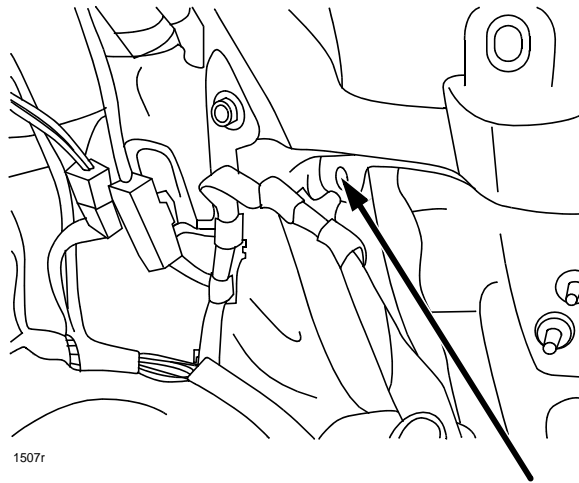


- e. Disconnect original harness anchor from body, then place tape wrapped connection into body cavity.

NOTE:

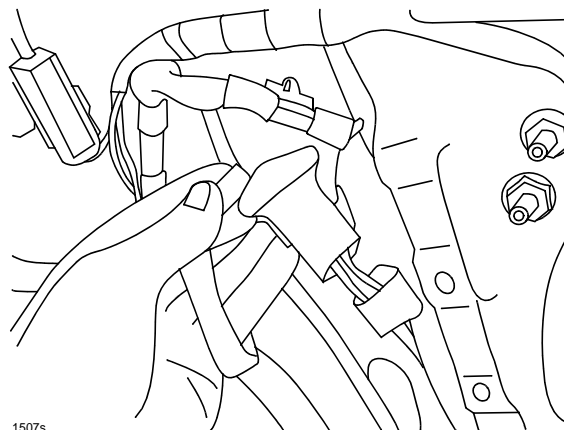
- When placing tape-wrapped connection into body cavity, insulate the connection using foam or other insulation materials to prevent rattles.

DRIVER SIDE SHOWN,
PASSENGER SIDE SIMILAR



DISCONNECT BODY
ANCHOR FOR ORIGINAL
HARNESS FROM BODY

DRIVER SIDE SHOWN,
PASSENGER SIDE SIMILAR



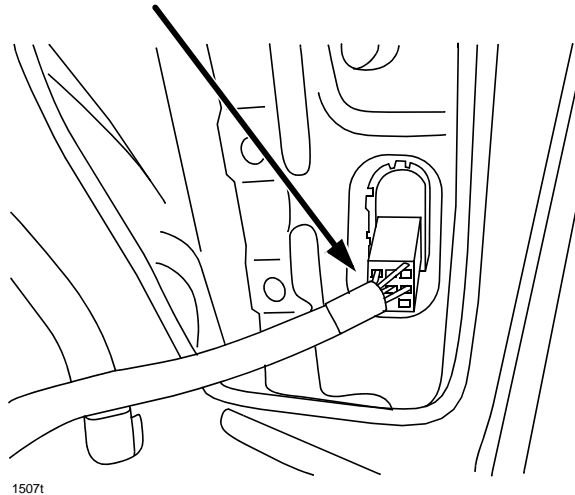
STUFF WRAPPED CONNECTOR INTO BODY
CAVITY, THEN INSULATE THE CONNECTION
USING FOAM OR OTHER INSULATION
MATERIALS TO PREVENT RATTLES

- f. Snap overlay harness connector into hole in door jamb, then reconnect door harness connector.

NOTE:

- Ensure weather seal is returned to proper position to prevent leaks and/or damage to connector.

**INSTALL OVERLAY CONNECTOR, THEN PLUG
IN EXISTING DOOR HARNESS CONNECTOR**



**DRIVER SIDE SHOWN,
PASSENGER SIDE SIMILAR**

- g. Repeat step 6 for passenger's side.
7. Route and connect overlay harness to side curtain air bags.

NOTE:

- Driver's side overlay harness side curtain air bag connector wire colors: P/L and P.
 - Passenger's side overlay harness side curtain air bag connector wire colors: V and V/W.
- a. Starting at driver's side, locate side curtain air bag connector. Disconnect original harness connector from side curtain air bag connector.
- b. Remove original harness body anchor from body.

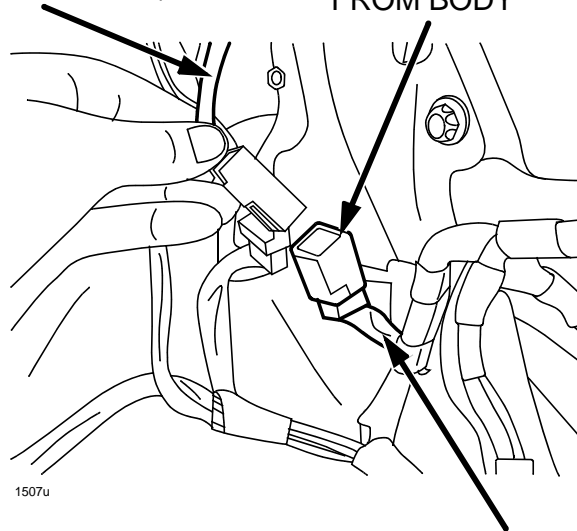
c. Cut original harness at branch point.

CAUTION:

- DO NOT cut the connector for the side curtain air bag module. Side curtain air bag module harness will have a Yellow sleeve.

SIDE CURTAIN
AIR BAG MODULE
HARNESS (YELLOW
WIRE PROTECTOR)

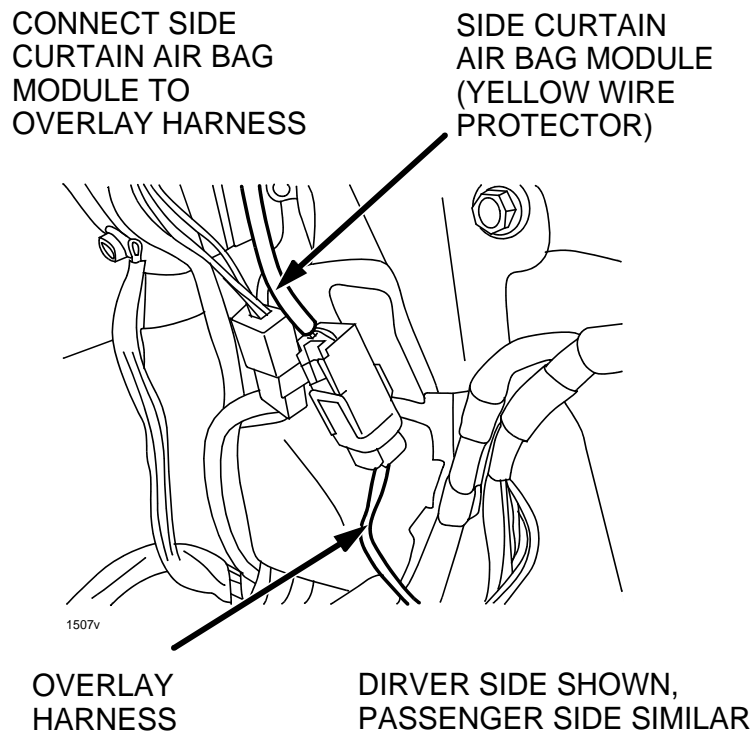
DISCONNECT SIDE
CURTAIN AIR BAG
CONNECTOR AND
REMOVE ANCHOR
FROM BODY



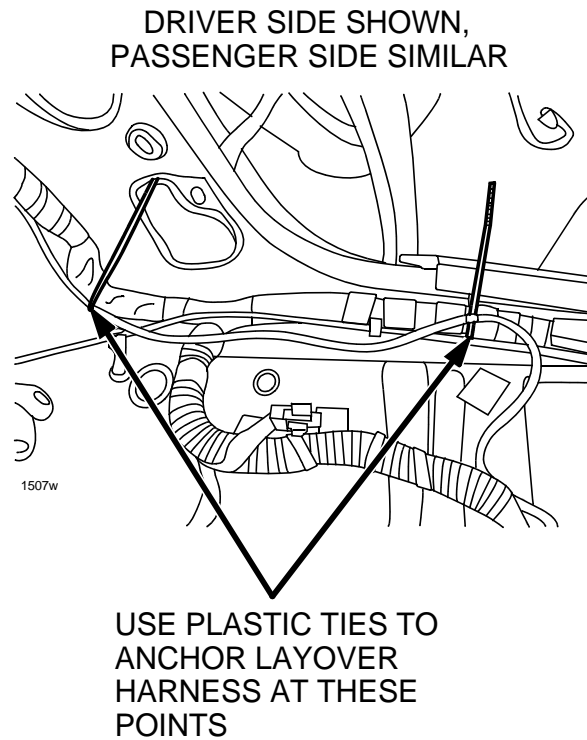
DRIVER SIDE SHOWN,
PASSENGER SIDE SIMILAR

CUT SIDE CURTAIN
AIR BAG HARNESS
AT THIS POINT

- d. Connect overlay harness connector to side curtain air bag module connector and secure harness anchors to body.



- e. Secure overlay harness with plastic ties as shown. Repeat step 7 for passenger's side.

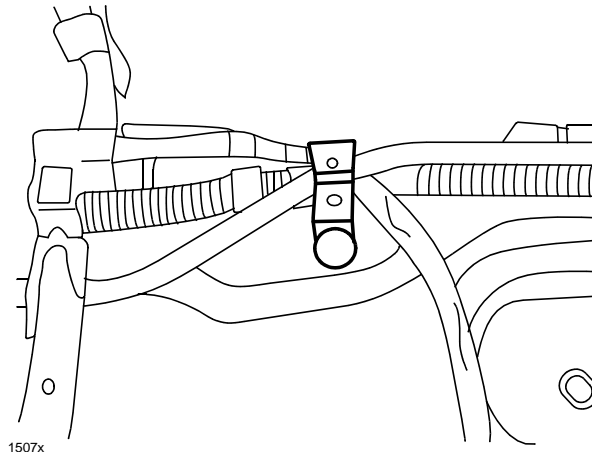


8. Reassemble interior of vehicle in reverse order as outlined in step 1.

NOTE:

- When installing front center console bracket, arrange overlay harness being careful not to pinch wiring or interfere with console mounting.
- When installing seat belt rails, it may be necessary to pull slack from the rear door retractors. If this is necessary, battery must be connected for retractors to release belt slack.

**ROUTE OVERLAY HARNESS THROUGH
CENTER CONSOLE BRACKET - USE
CARE NOT TO PINCH HARNESS**



**DRIVER SIDE SHOWN,
PASSENGER SIDE SIMILAR**

9. Verify repair. Program customer radio stations presets recorded at the beginning of the procedure.

PART(S) INFORMATION

Part Number	Description	Qty.	Notes
FEY1-67-230	Service Harness Kit	1	---

WARRANTY INFORMATION

NOTE:

- This warranty information applies only to verified customer complaints on vehicles eligible for warranty repair. Refer to the Warranty Wizard for warranty term information.
- Additional diagnostic time cannot be claimed for this repair.

Warranty Type	A
Symptom Code	62
Damage Code	9S
Part Number Main Cause	FEY1-67-230
Quantity	1
Operation Number / Labor Hours:	XXB061RX / 1.9 Hrs