2005 Toyota RAV4
2005 RESTRAINTS Supplemental Restraint System - RAV4

2005 RESTRAINTS

Supplemental Restraint System - RAV4

SRS AIRBAG

PRECAUTION

CAUTION:

- **The TOYOTA RAV4 is equipped with SRS that includes a driver airbag, front passenger airbag, side airbag and curtain shield airbag.**

  Failure to carry out the service operations in the correct sequence could cause the SRS to unexpectedly deploy during servicing and lead to serious injury.

  Furthermore, if a mistake is made when servicing the SRS, it is possible that the SRS may fail to operate properly. Before servicing (including removal or installation of parts, inspection or replacement), be sure to read the following information carefully.

- **Work must be started at least 90 seconds after the ignition switch is turned to the LOCK position and the negative (-) terminal cable is disconnected from the battery.**

  (The SRS is equipped with a back-up power source. If work is started within 90 seconds of disconnecting the negative (-) terminal cable from the battery, the SRS may deploy.)

- **Do not directly expose the steering wheel pad, front passenger airbag assembly, side airbag assembly, curtain shield airbag assembly, airbag sensor assembly, front airbag sensor, side and curtain shield airbag sensor assembly, curtain shield airbag sensor assembly, door airbag sensor assembly or seat position sensor assembly to hot air or flames.**

NOTE:

- **Malfunction symptoms of the SRS are difficult to confirm so the Diagnostic Trouble Codes (DTCs) become the most important source of information when troubleshooting. When troubleshooting the SRS, always check the DTCs before disconnecting the battery.**
- **In minor collisions where the SRS does not deploy, the steering wheel pad, front passenger airbag assembly, side airbag assembly, curtain shield airbag assembly, airbag sensor assembly, front airbag sensor, side and curtain shield airbag sensor assembly, curtain shield airbag sensor assembly and seat position sensor assembly should be inspected before further use of the vehicle (see**

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

- INSPECTION for "STEERING WHEEL PAD AND SPIRAL CABLE"
- INSPECTION for "FRONT PASSENGER AIRBAG ASSEMBLY"
- INSPECTION for "SIDE AIRBAG ASSEMBLY"
- INSPECTION for "CURTAIN SHIELD AIRBAG ASSEMBLY"
- INSPECTION for "AIRBAG SENSOR ASSEMBLY"
- INSPECTION for "FRONT AIRBAG SENSOR"
- INSPECTION for "SIDE AND CURTAIN SHIELD AIRBAG SENSOR ASSEMBLY"
- INSPECTION for "CURTAIN SHIELD AIRBAG SENSOR ASSEMBLY
- INSPECTION for "SEAT POSITION SENSOR ASSEMBLY"

- Before repairs, remove the airbag sensor if impacts are likely to be applied to the sensor during repairs.
- Never use SRS parts from another vehicle. When replacing parts, use new parts.
- Never disassemble and repair the steering wheel pad, front passenger airbag assembly, side airbag assembly, curtain shield airbag assembly, airbag sensor assembly, front airbag sensor, side and curtain shield airbag sensor assembly, curtain shield airbag sensor assembly, door airbag sensor assembly or seat position sensor assembly.
- If the steering wheel pad, front passenger airbag assembly, side airbag assembly, curtain shield airbag assembly, airbag sensor assembly, front airbag sensor, side and curtain shield airbag sensor assembly, curtain shield airbag sensor assembly, door airbag sensor assembly or seat position sensor assembly has been dropped, or if there are cracks, dents or other defects in the case, bracket or connector, replace it with a new one.
- Use a voltmeter/ohmmeter with high impedance (10 kohm/V minimum) for troubleshooting the system's electrical circuits.
- Information labels are attached to the periphery of the SRS components. Follow the instructions on the labels.
- After work on the SRS is completed, check the SRS warning light (see PRE-CHECK).
- When the negative (-) terminal cable is disconnected from the battery, the memory of the clock and audio system will be canceled. So before starting work, make a record of the contents memorized in the audio memory system. When work is finished, reset the audio systems as they were before and adjust the clock. To avoid erasing the memory in each memory system, never use a back-up power supply from outside the vehicle.
- If the vehicle is equipped with a mobile communication system, refer to PRECAUTION in INTRODUCTION article.

OPERATION

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

1. **STEERING WHEEL PAD (with AIRBAG)**

The inflater and bag of the SRS are stored in the steering wheel pad and cannot be disassembled. The inflater contains a squib, igniter charge, gas generator and other related parts, and inflates the bag when instructed by the airbag sensor assembly.

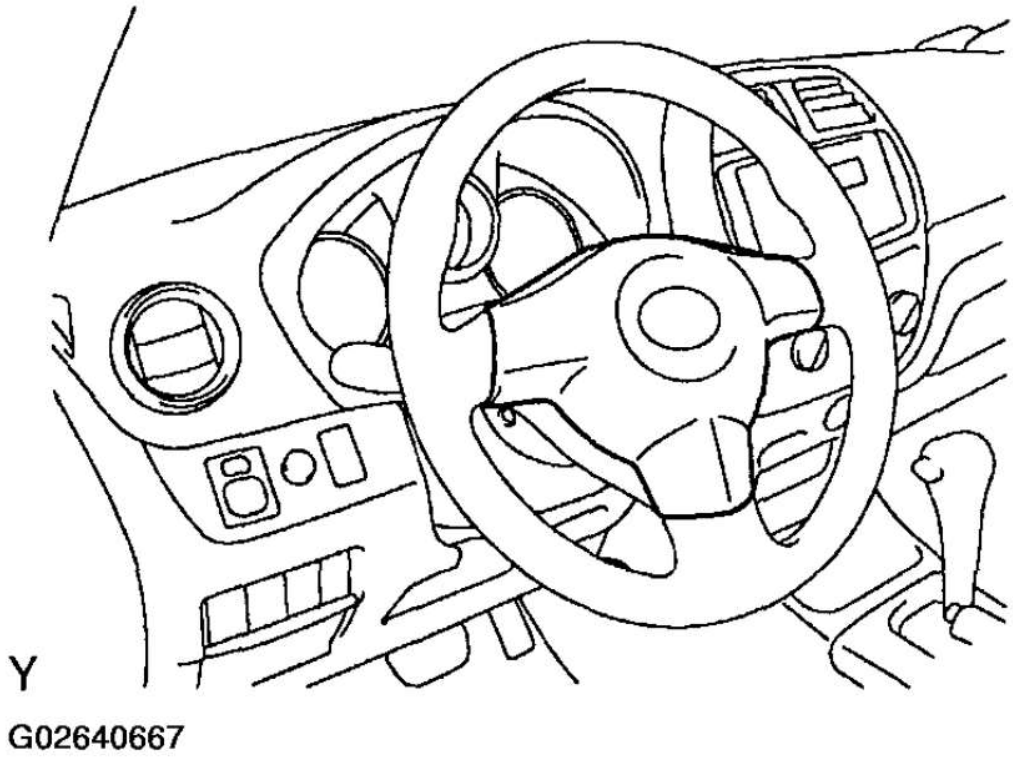


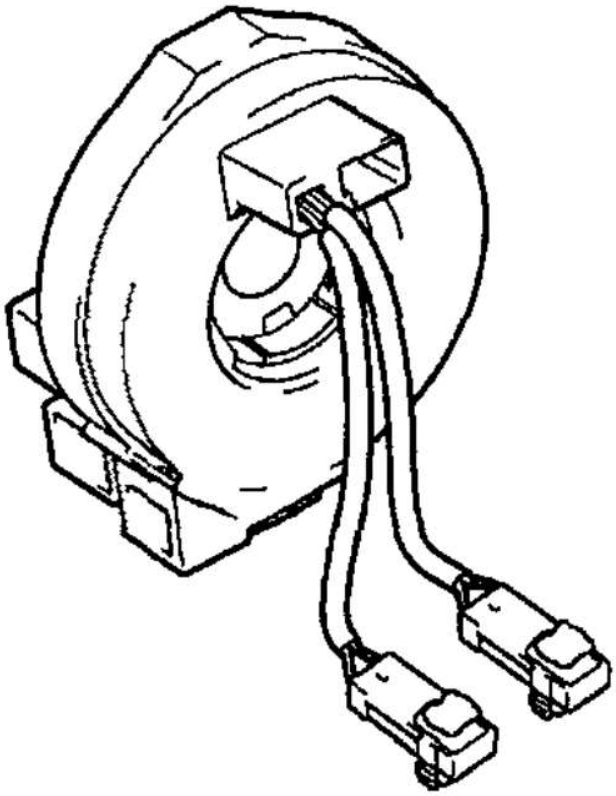
Fig. 1: Identifying Steering Wheel Pad (With Airbag)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. **SPIRAL CABLE**

A spiral cable is used as an electrical joint from the vehicle body to the steering wheel.

cardiagn.com

2005 Toyota RAV4
2005 RESTRAINTS Supplemental Restraint System - RAV4



P

G02640668

Fig. 2: Identifying Spiral Cable
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

3. **FRONT PASSENGER AIRBAG ASSEMBLY**

The inflater and bag of the SRS are stored in the front passenger airbag assembly and cannot be disassembled. The inflater contains a squib, igniter charge, gas generator and other related parts, and inflates the bag when instructed by the airbag sensor assembly.

cardiagn.com

2005 Toyota RAV4
2005 RESTRAINTS Supplemental Restraint System - RAV4

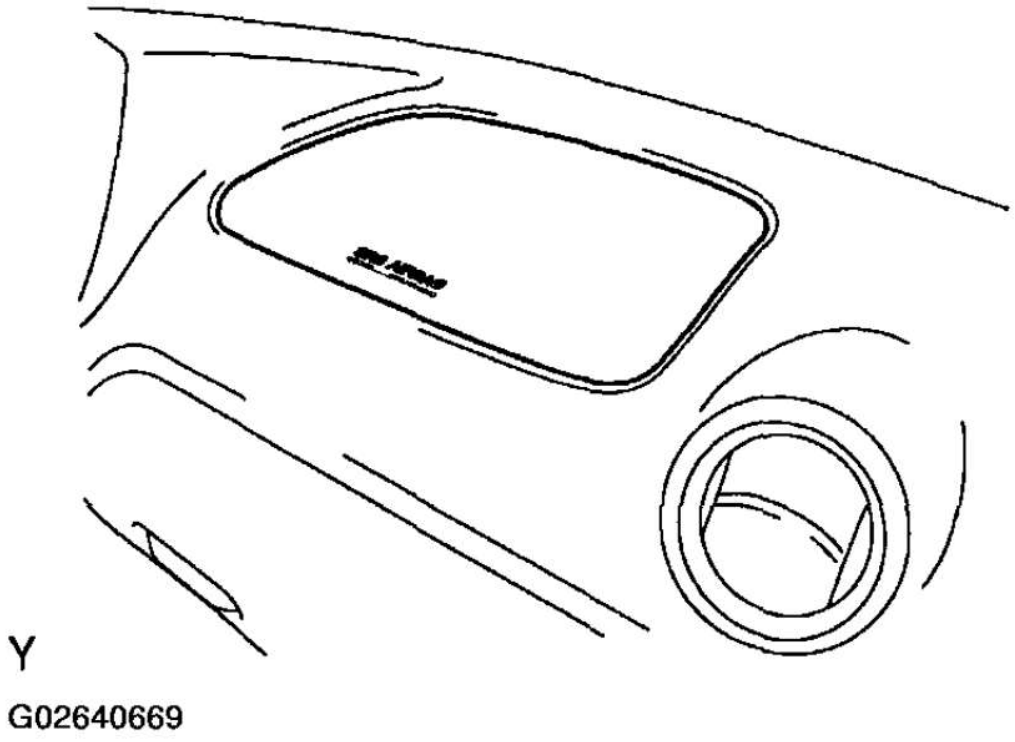


Fig. 3: Identifying Front Passenger Airbag Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

4. **SIDE AIRBAG ASSEMBLY**

The inflater and bag of the SRS side airbag are stored in the side airbag assembly and cannot be disassembled. The inflater contains a squib, igniter charge, gas generator, etc., and inflates the bag when instructed by the side airbag sensor assembly.

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

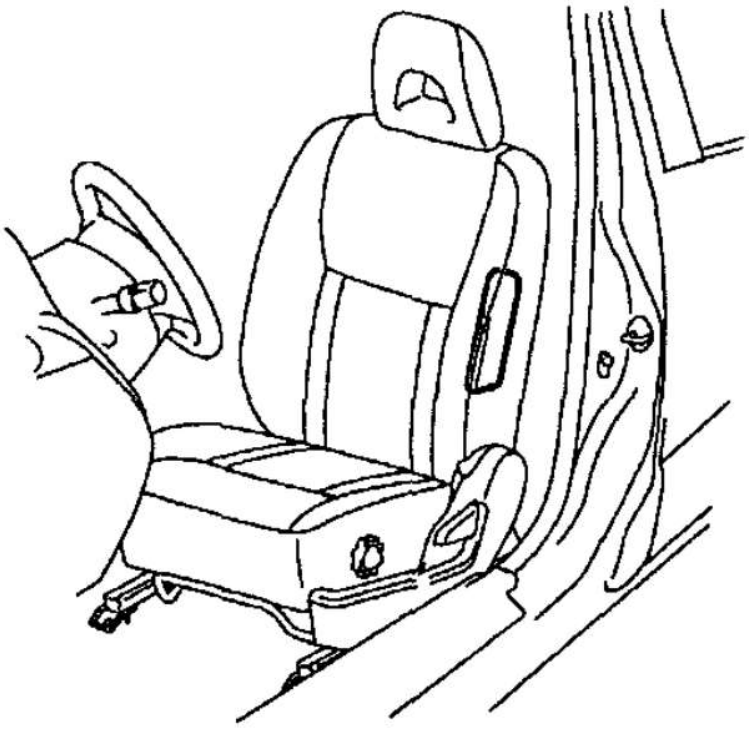


Fig. 4: Identifying Side Airbag Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

5. **CURTAIN SHIELD AIRBAG ASSEMBLY**

The inflater and bag of the SRS are stored in the curtain shield airbag assembly and cannot be disassembled. The inflater contains a squib, igniter charge, gas generator and other related parts, and inflates the bag when instructed by the airbag sensor assembly.

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

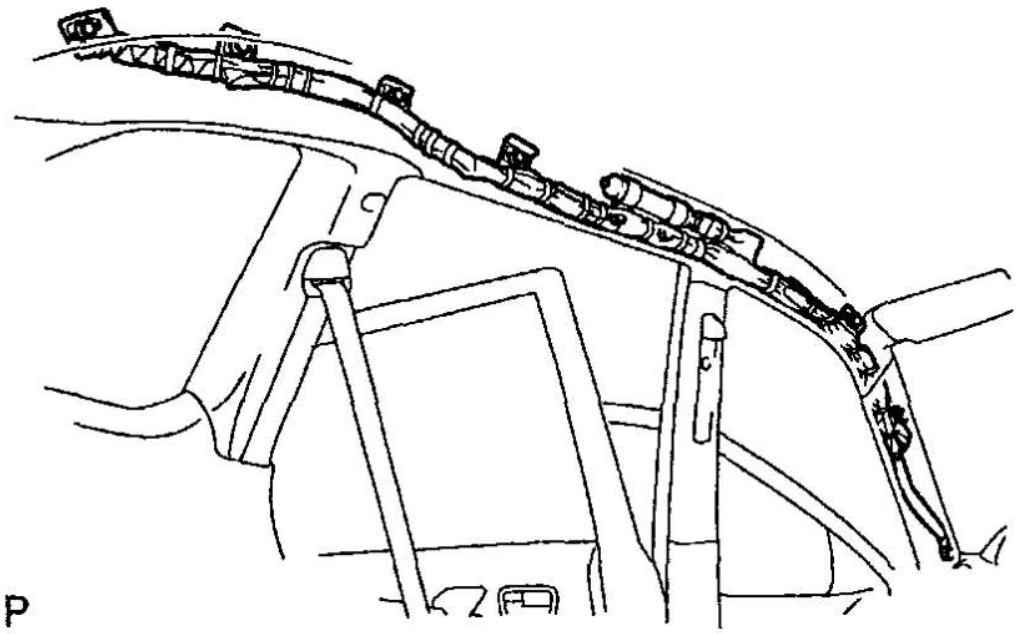


Fig. 5: Identifying Curtain Shield Airbag Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

6. **SEAT BELT PRETENSIONER**

The seat belt pretensioner system is a component of the front seat outer belt. The pretensioner is activated in the event of a frontal collision. The seat belt pretensioner cannot be disassembled.

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

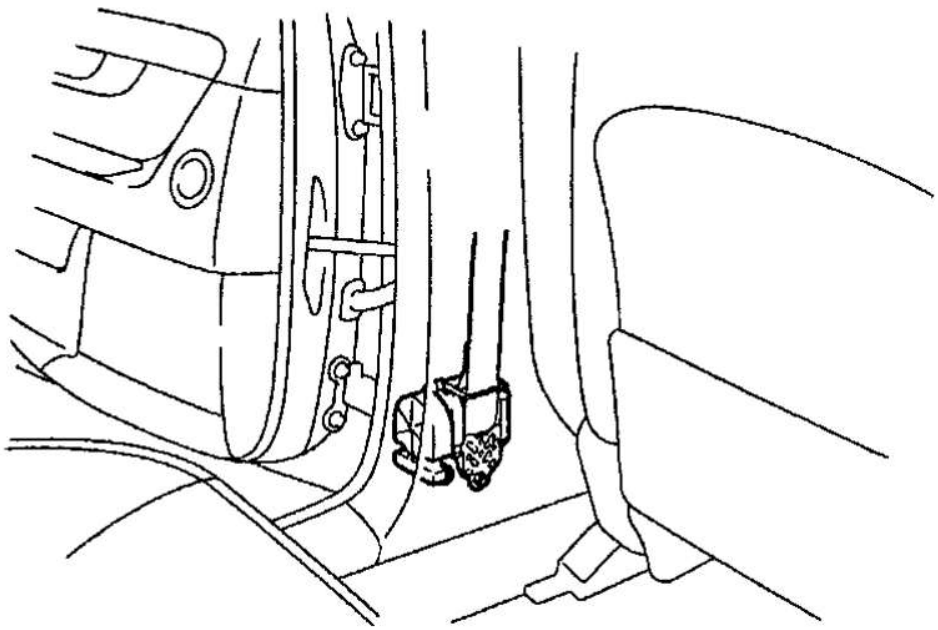


Fig. 6: Identifying Seat Belt Pretensioner
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

7. **SRS WARNING LIGHT**

The SRS warning light is located on the combination meter. It turns on to alert the driver to trouble in the system when a malfunction is detected in the airbag sensor assembly self-diagnosis function. When the ignition switch is turned to the ON position, the light turns on for about 6 seconds and then turns off.

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

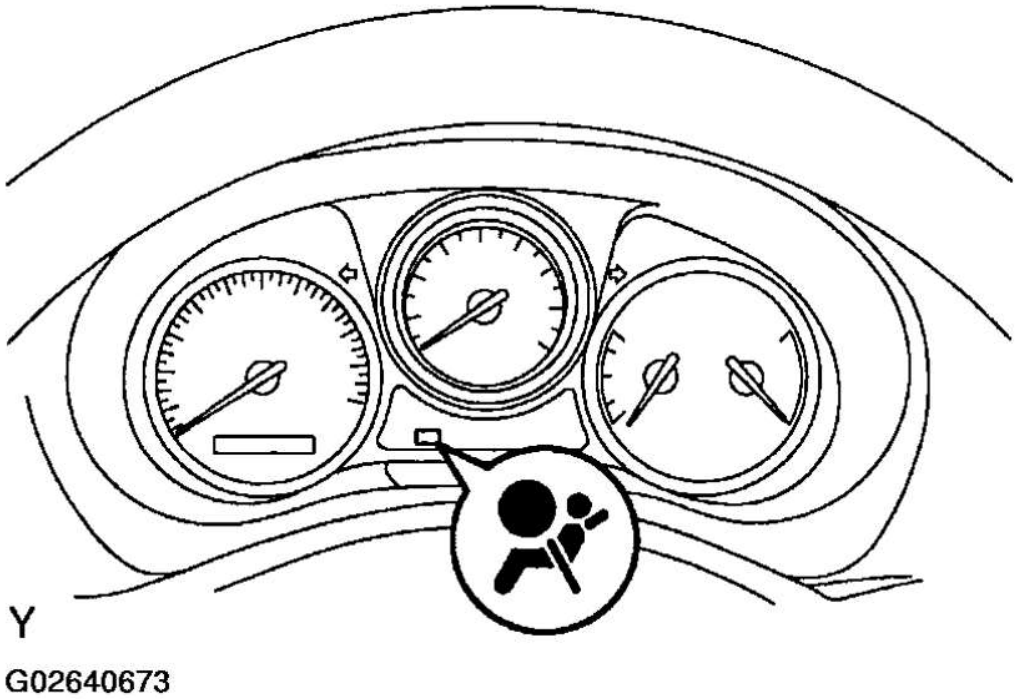


Fig. 7: Identifying SRS Warning Light
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

8. **AIRBAG SENSOR ASSEMBLY**

The airbag sensor assembly is mounted on the floor inside the front console box. The airbag sensor assembly consists of an airbag sensor, safing sensor, diagnosis circuit, ignition control, drive circuit and other related parts. It receives signals from the front airbag sensors and judges whether the SRS must be activated or not. The airbag sensor assembly cannot be disassembled.

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

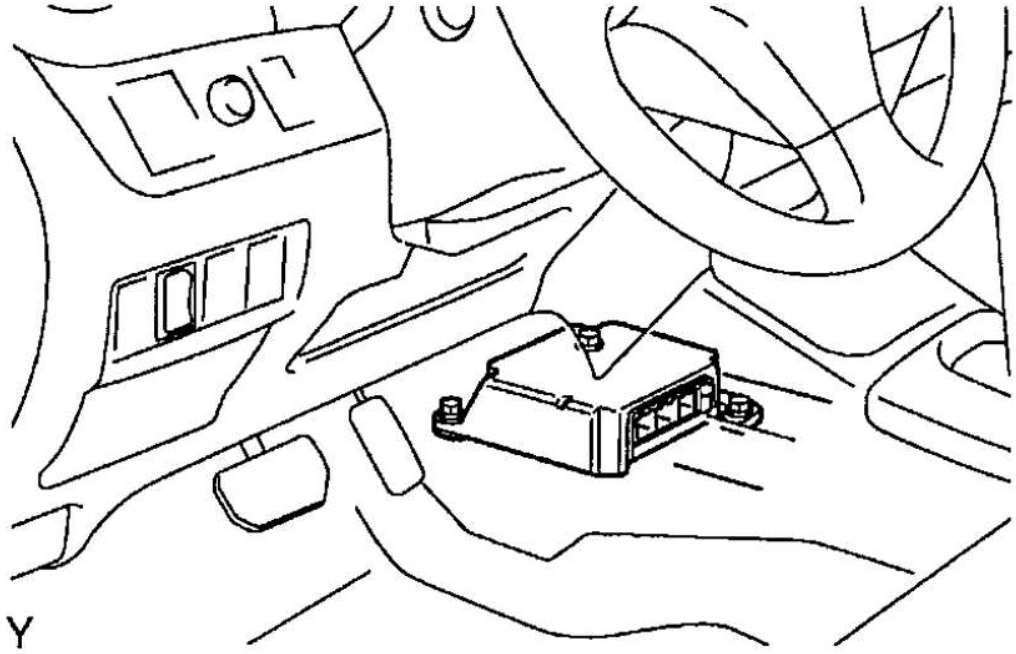


Fig. 8: Identifying Airbag Sensor Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

9. **FRONT AIRBAG SENSOR**

The front airbag sensor is mounted inside each of the side members. The sensor unit is a mechanical type. When the sensor detects deceleration force above a predetermined limit, contact is made in the sensor, sending a signal to the airbag sensor assembly. The front airbag sensor cannot be disassembled.

cardiagn.com

2005 Toyota RAV4
2005 RESTRAINTS Supplemental Restraint System - RAV4

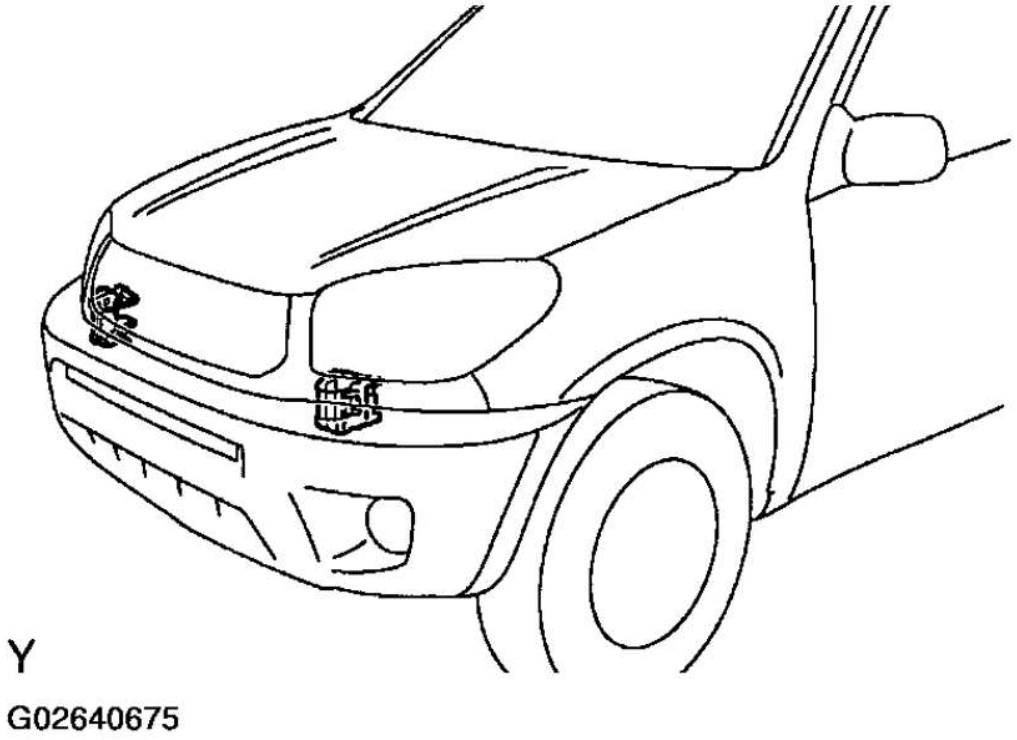


Fig. 9: Identifying Front Airbag Sensor
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

10. **SIDE AND CURTAIN SHIELD AIRBAG SENSOR ASSEMBLY**

The side and curtain shield airbag sensor assembly is mounted in the LH and RH center pillars. The side and curtain shield airbag sensor assembly consists of a lateral deceleration sensor, safing sensor, diagnosis circuit and other related parts. It sends signals to the airbag sensor assembly to judge whether the SRS side airbag and curtain shield airbag must be activated or not. The side and curtain shield airbag sensor assembly cannot be disassembled.

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

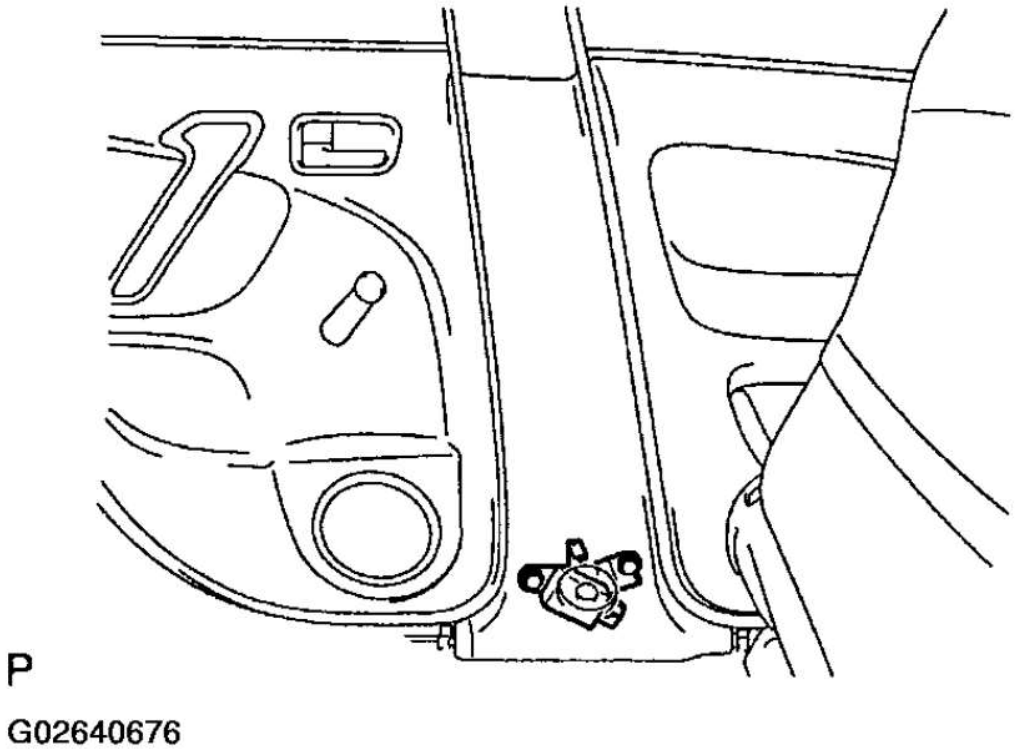


Fig. 10: Identifying Side And Curtain Shield Airbag Sensor Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

11. CURTAIN SHIELD AIRBAG SENSOR ASSEMBLY

The curtain shield airbag sensor assembly is mounted inside each of the quarter wheel panel. The sensor unit consists of a lateral deceleration sensor, diagnosis circuit and other related parts. It sends signals to the airbag sensor assembly to judge whether the SRS curtain shield airbag must be activated or not. The curtain shield airbag sensor assembly cannot be disassembled.

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

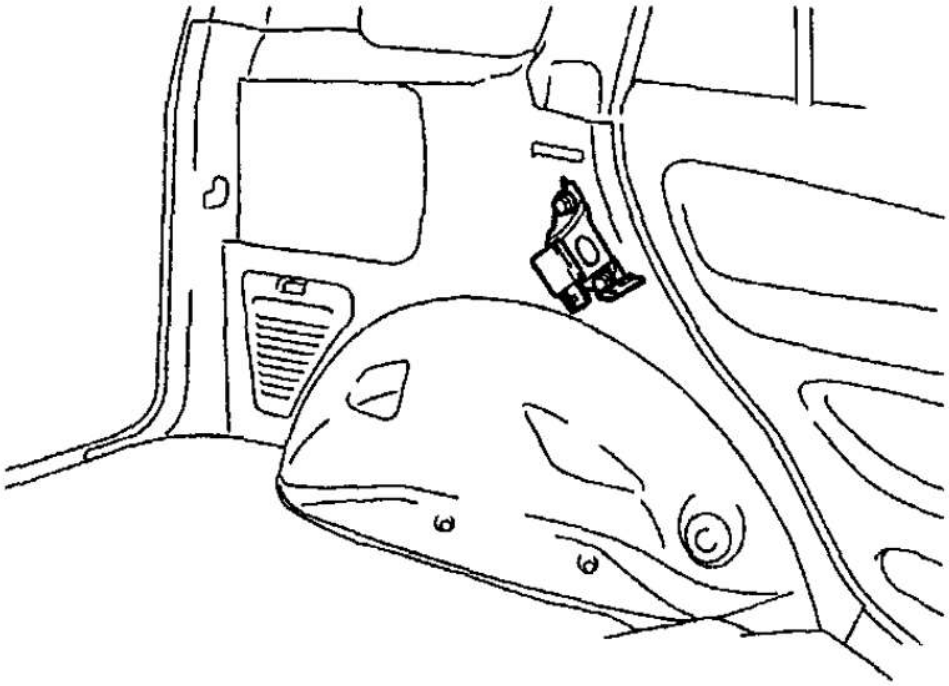


Fig. 11: Identifying Curtain Shield Airbag Sensor Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

12. **SEAT POSITION SENSOR ASSEMBLY**

The seat position sensor assembly is mounted on the seat rail of the driver's seat. The sensor unit consists of a magnet sensor, diagnosis circuit and other related parts. It judges the seat sliding position and sends the signal to the airbag sensor assembly. The seat position sensor assembly cannot be disassembled.

cardiagn.com

2005 Toyota RAV4
2005 RESTRAINTS Supplemental Restraint System - RAV4

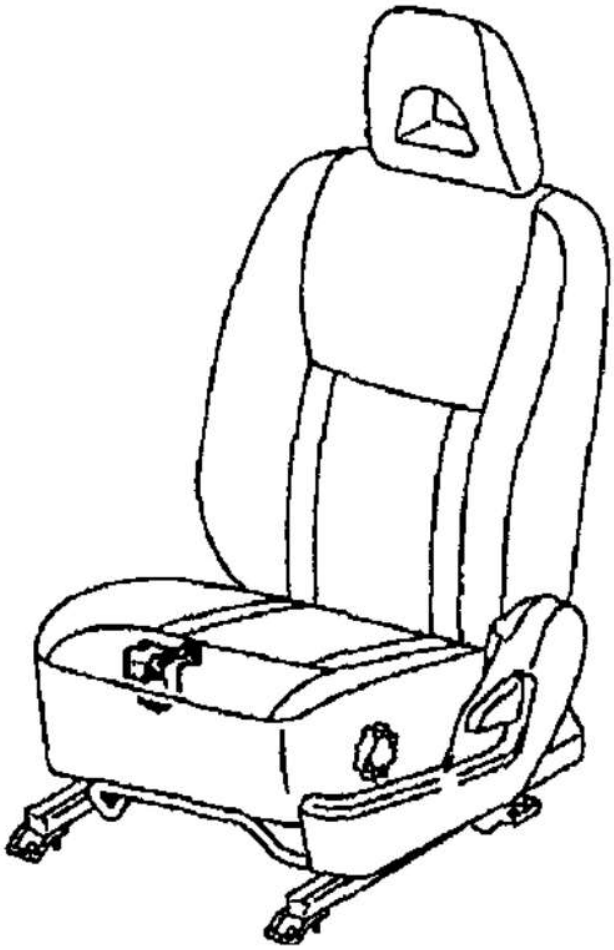


Fig. 12: Identifying Seat Position Sensor Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

13. **SRS CONNECTORS**

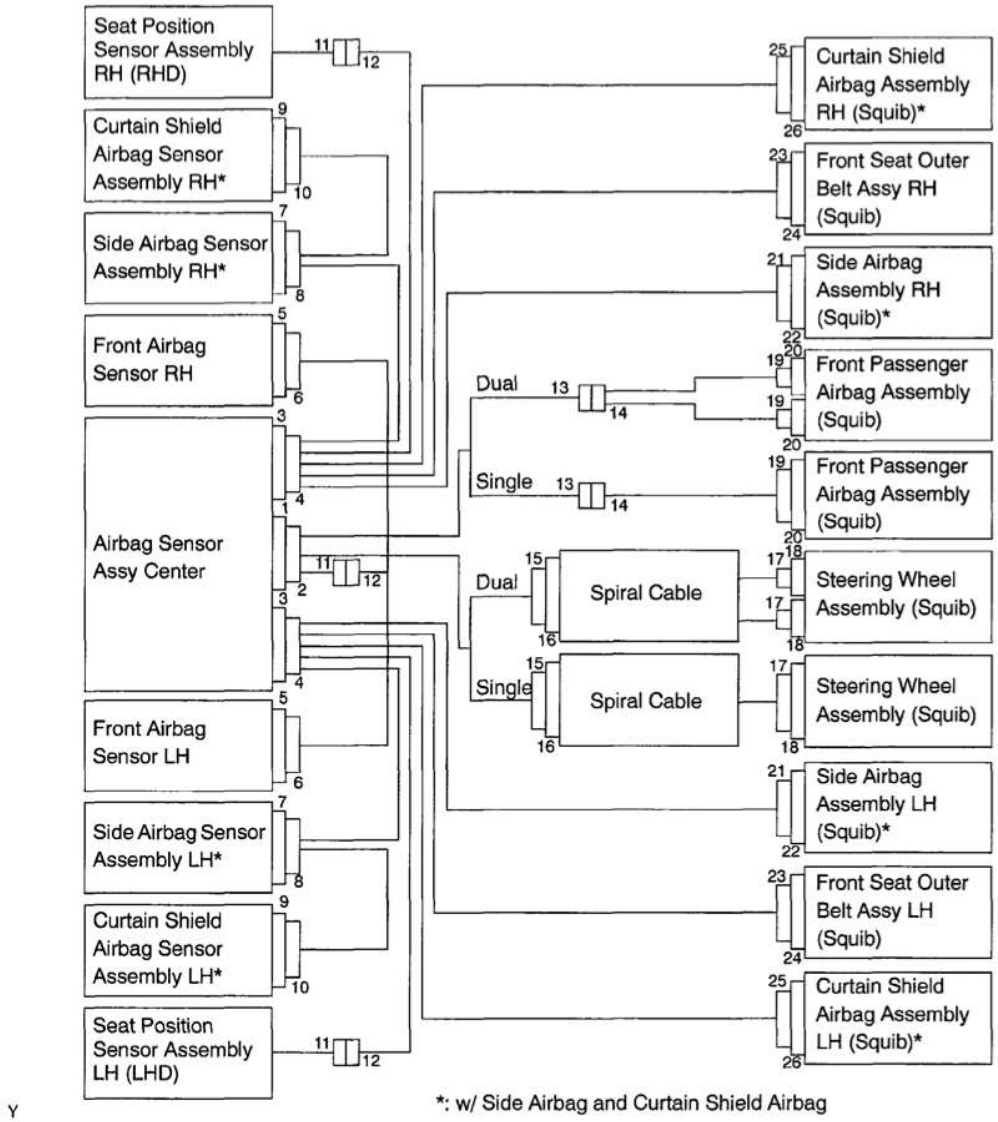
HINT:

SRS connectors are located as shown in the illustration.

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4



*: w/ Side Airbag and Curtain Shield Airbag

Y

No.	Item	Application
(1)	Terminal Twin-lock Mechanism	Connectors 2, 4, 6, 8, 10, 11, 12, 13, 15, 17, 18 19, 20
(2)	Activation Prevention Mechanism	Connectors 2, 4, 14, 16, 18, 20, 22, 24
(3)	Electrical Connection Check Mechanism	Connectors 1, 2, 3, 4
(4)	Half Connection Prevention Mechanism	Connectors 6, 8, 10, 12, 13 17, 19
(5)	Connector Lock Mechanism	Connectors 15, 21, 23

G02640679

Fig. 13: Identifying SRS Connectors Locations
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

a. All connectors in the SRS are colored in yellow to distinguish them from other connectors. Connectors having special functions and specifically designed for the SRS are used in the locations shown on the previous page to ensure high reliability. These connectors use durable gold-plated

cardiagn.com

terminals.

1. Terminal twin-lock mechanism:

   Each connector has a two-piece component consisting of a housing and a spacer. This design enables the terminal to be locked securely by two locking devices (the retainer and the lance) to prevent terminals from coming out.

2. Activation prevention mechanism:

   Each connector contains a short spring plate. When the connector is disconnected, the short spring plate automatically connects positive (+) terminal and negative (-) terminal of the squib.

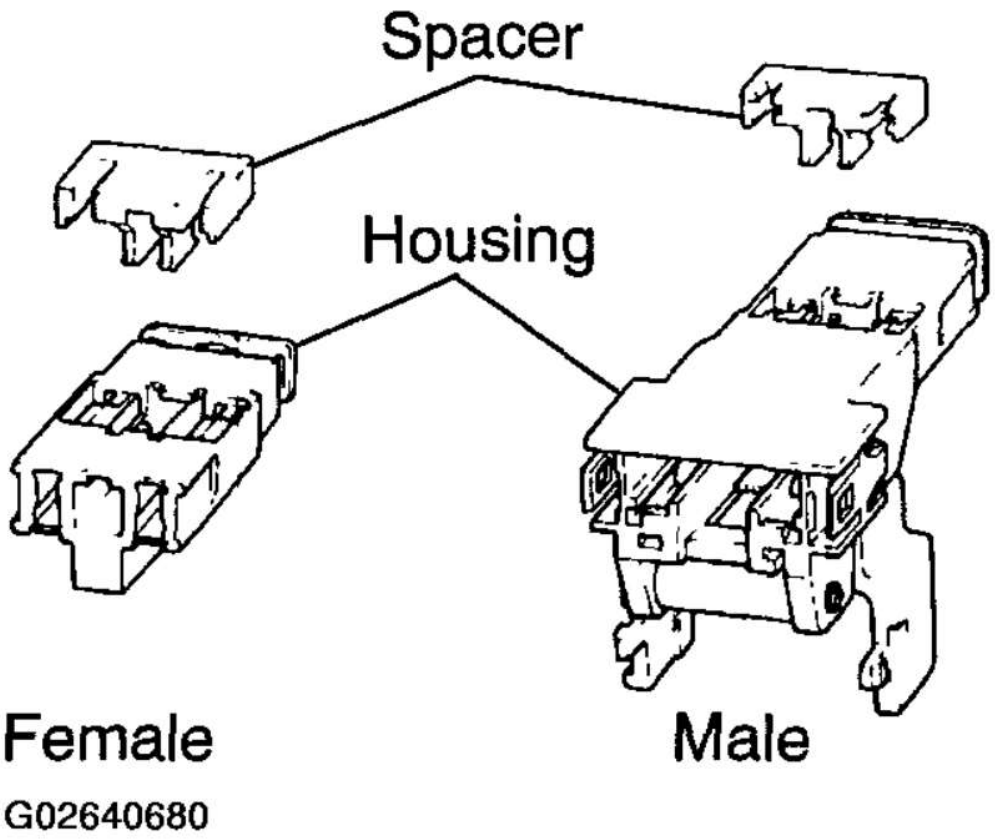


Fig. 14: Identifying Terminal Twin-Lock Mechanism
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

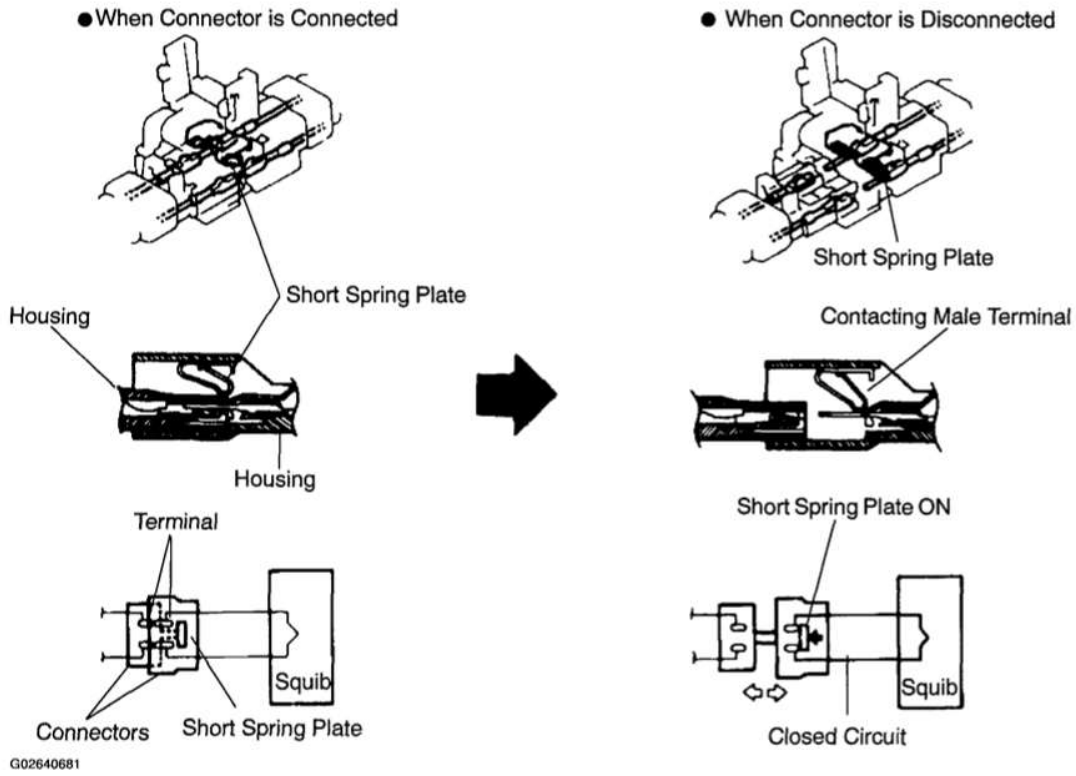


Fig. 15: Identifying Activation Prevention Mechanism
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

HINT:

The type of connector is shown in the diagram on the previous page.

3. Electrical connection check mechanism:

   This mechanism electrically checks that the connectors are connected correctly and completely. The electrical connection check mechanism is designed so that the disconnection detection pin connects with the diagnosis terminals when the connector housing lock is locked.

cardiagn.com

2005 Toyota RAV4
2005 RESTRAINTS Supplemental Restraint System - RAV4

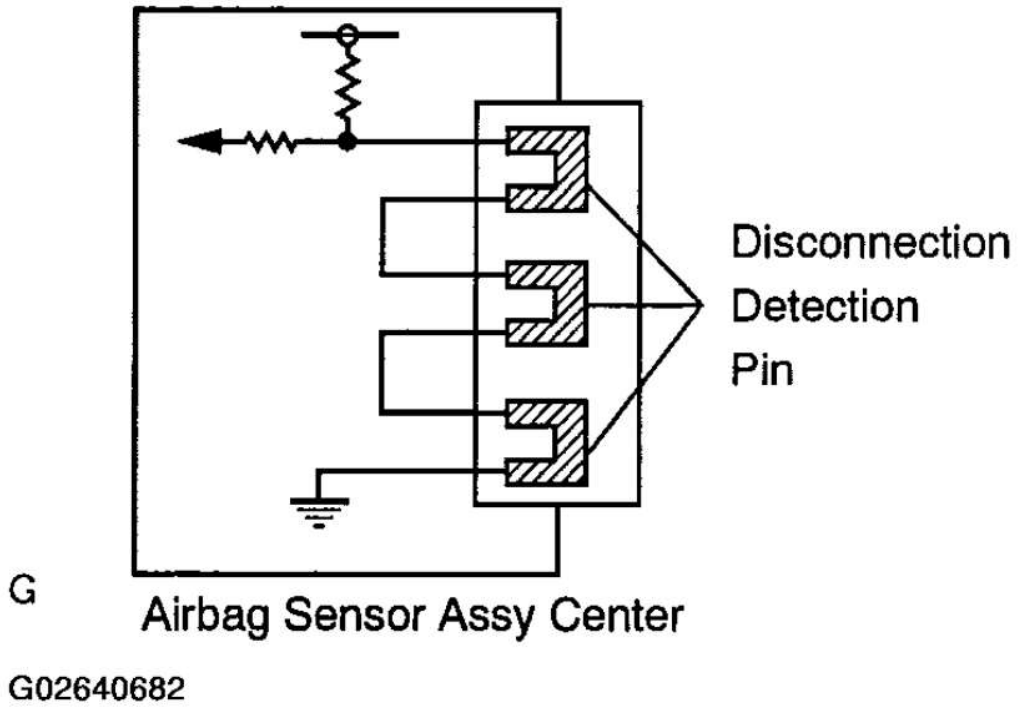


Fig. 16: Identifying Electrical Connection Check Mechanism (1 Of 2)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

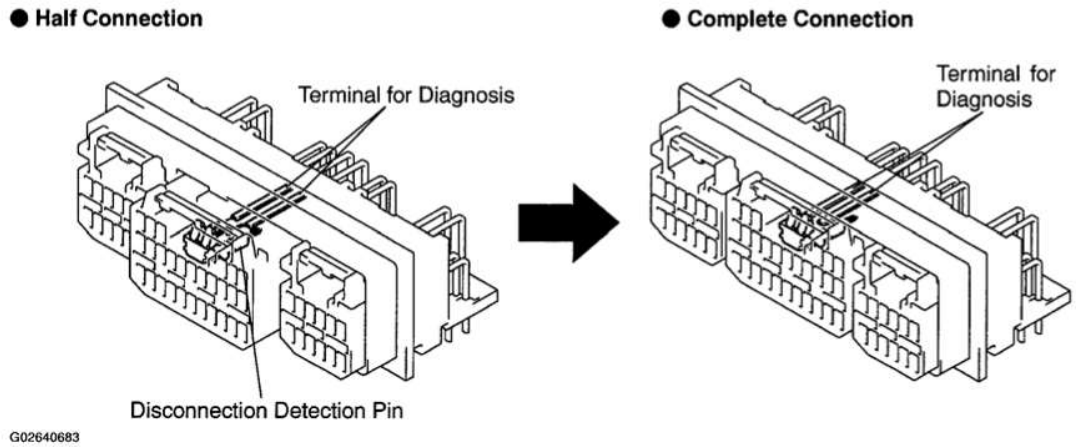


Fig. 17: Identifying Electrical Connection Check Mechanism (2 Of 2)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

4. Half connection prevention mechanism:

   If the connector is not completely connected, the connector will be disconnected due to the spring operation, which results in no continuity.

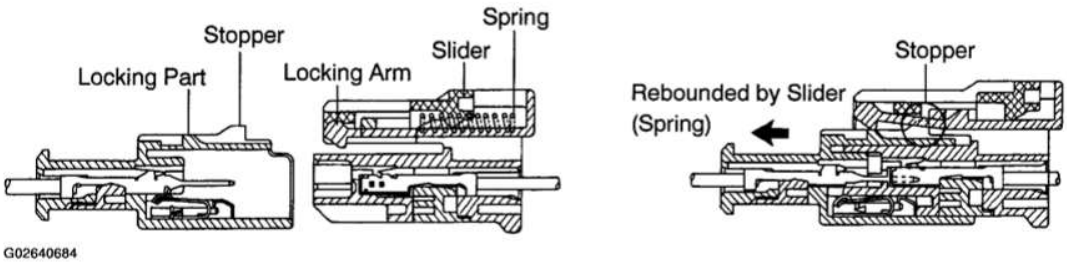


Fig. 18: Identifying Half Connection Prevention Mechanism
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

5. Connector lock mechanism:

   Locking the connector lock button securely connects the connector.

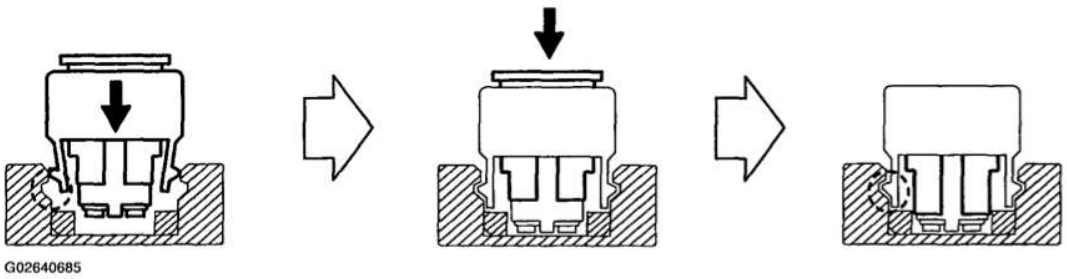


Fig. 19: Identifying Connector Lock Mechanism (1 Of 2)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

6. Connector lock mechanism (2):

   Both the primary lock with holder claws and the secondary lock with retainer claws prevent the connectors from becoming disconnected.

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

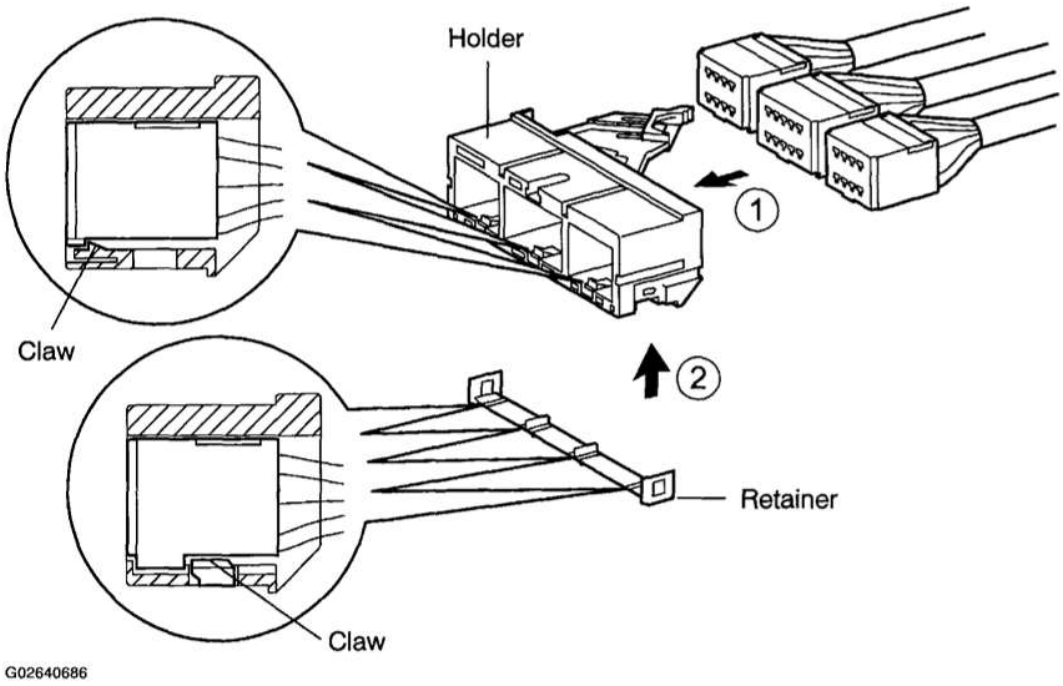


Fig. 20: Identifying Connector Lock Mechanism (2 Of 2)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

7. Improper connection prevention lock mechanism:

   When connecting the holder, the lever is pushed into the end by rotating around the axis A to lock the holder securely.

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

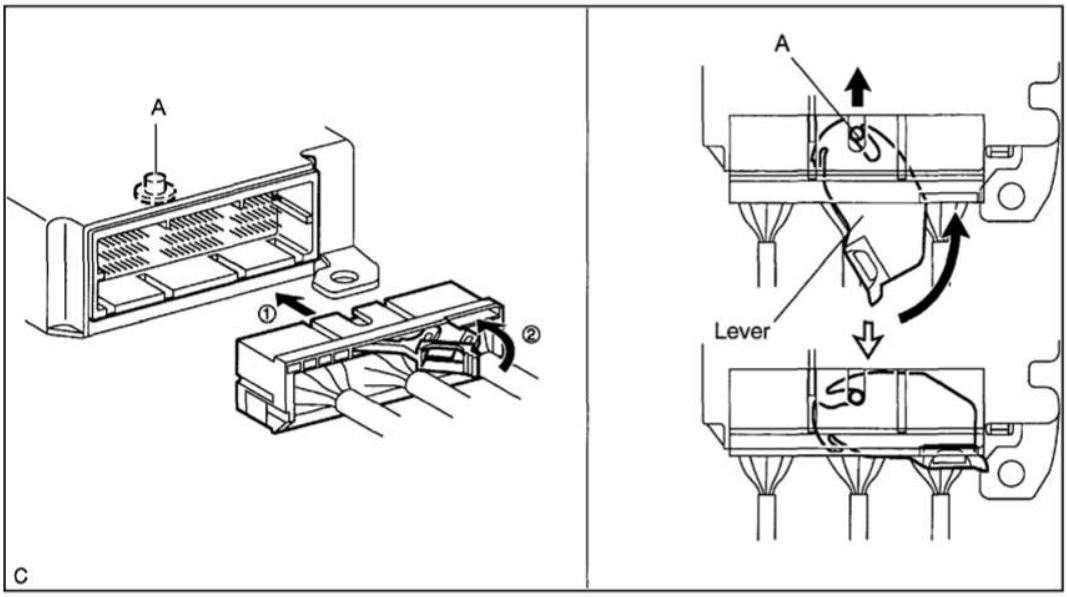


Fig. 21: Identifying Improper Connection Prevention Lock Mechanism
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

b. When the vehicle is involved in a frontal collision in the hatched area (**Fig. 1**) and the shock is larger than the predetermined level, the SRS is activated automatically. A safing sensor is designed to turn on at a smaller deceleration rate than the airbag sensor. As illustrated in **Fig. 2**, ignition is caused when current flows to the squib, which happens when a safing sensor and the deceleration sensor turn on simultaneously. When a deceleration force acts on the sensors, 2 squibs in the driver airbag and front passenger airbag ignite and generate gas. The gas discharging into the driver airbag and front passenger airbag rapidly increases the pressure inside the bags, breaking open the steering wheel pad and instrument panel door. Bag inflation then ends, and the bags deflate as the gas is discharged through discharge holes at the bag's rear or side.

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

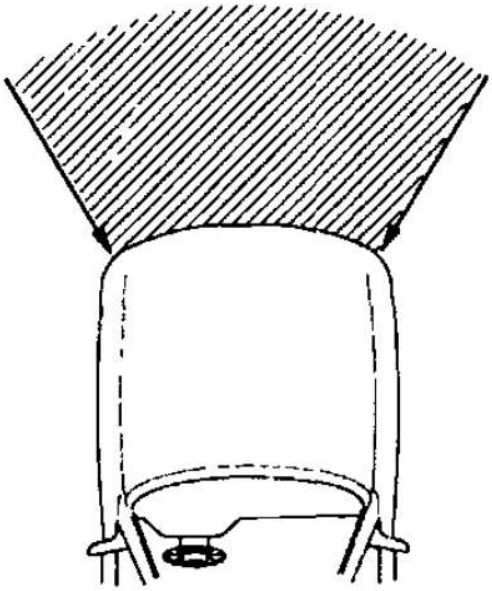


Fig. 1

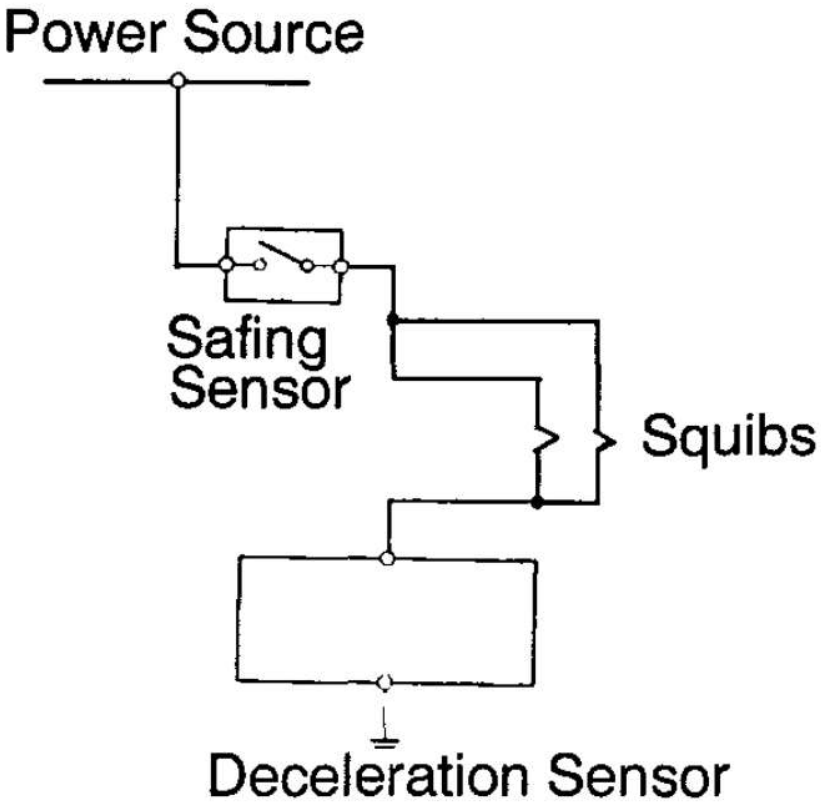


Fig. 2

G02640688

cardiagn.com

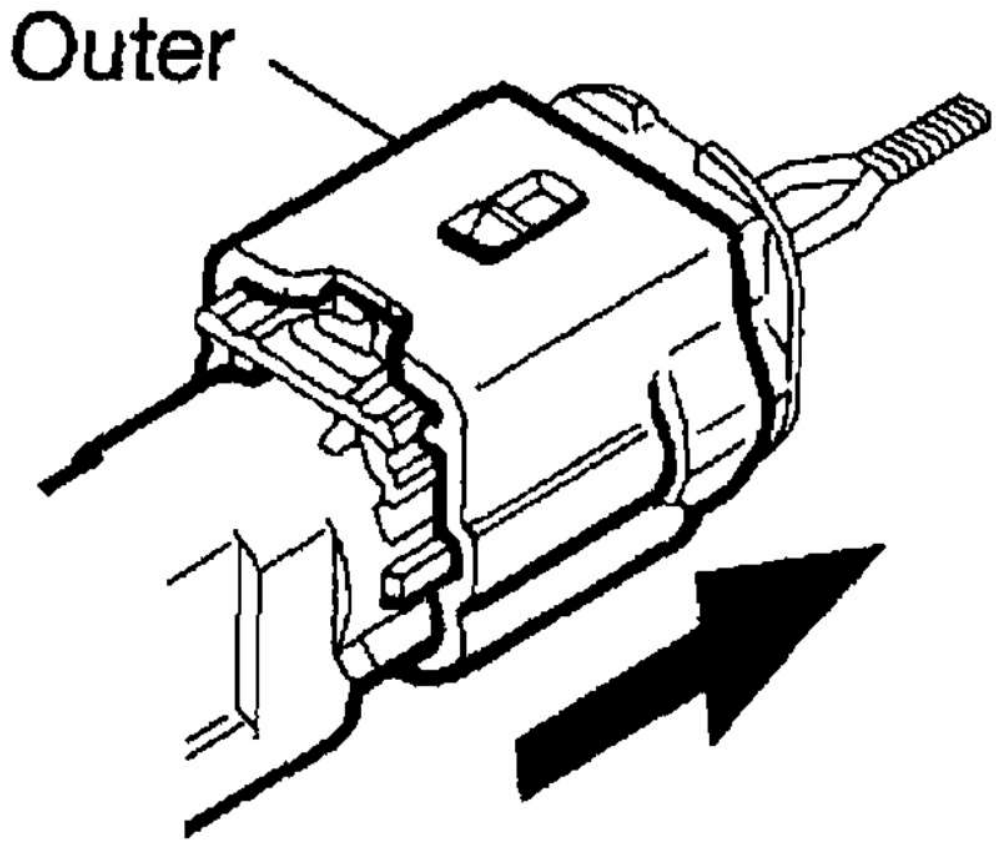
2005 Toyota RAV4
2005 RESTRAINTS Supplemental Restraint System - RAV4

Fig. 22: Communication Diagram - Power Source To Deceleration Sensor
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

14. **DISCONNECTION OF CONNECTORS FOR FRONT AIRBAG SENSOR, SIDE AND CURTAIN AIRBAG SENSOR ASSEMBLY AND CURTAIN SHIELD AIRBAG SENSOR ASSEMBLY**
    a. While holding both sides of the outer, slide the outer in the direction shown by the arrow in the illustration.
    b. Release the lock of the connectors, and then disconnect the connectors.

    HINT:

    Be sure to hold both sides of the outer. If holding the top and bottom, the outer will obstruct disconnection.



G02640689

cardiagn.com

Fig. 23: Identifying Sliding Outer Direction
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

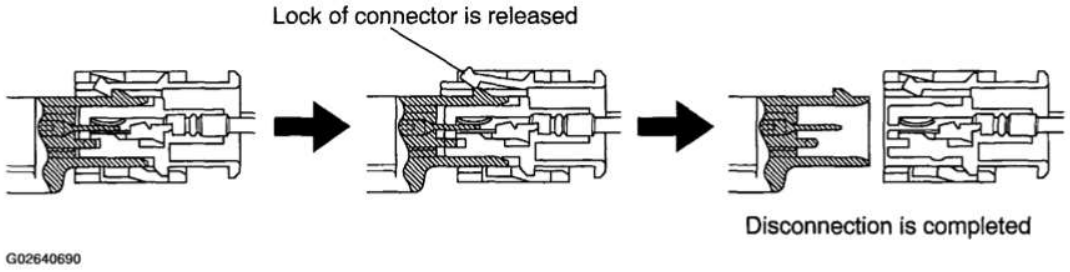


Fig. 24: Identifying Connector Lock Releasing Direction
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

15. **CONNECTION OF CONNECTORS FOR FRONT AIRBAG SENSOR, SIDE AND CURTAIN AIRBAG SENSOR ASSEMBLY AND CURTAIN SHIELD AIRBAG SENSOR ASSEMBLY**

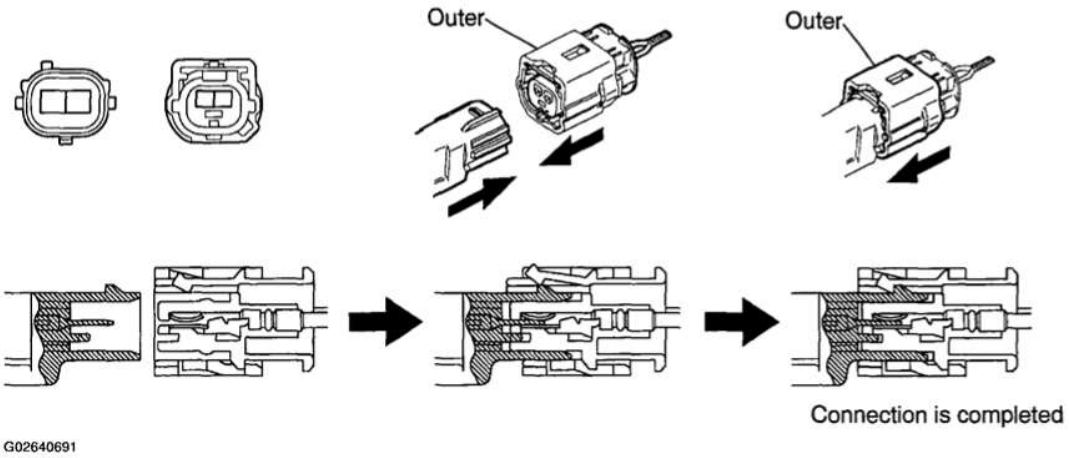


Fig. 25: Identifying Aligning Direction Of Male Connector And Female Connector
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

a. Align the male connector (on the side of sensor) and female connector as shown in the illustration and fit them without rubbing.
b. As they are fitted, the outer slides rearward. Press it until the outer returns to its original position again.

   If not, connectors will separate.

c. Be sure to fit the connectors until they are locked. After fitting, pull them slightly to check that they are locked. When locked, make sure that the outer returns to its original position and a click sound

cardiagn.com

is heard.

HINT:

- Do not fit them while holding the outer.
- When fitting, the outer slides. Do not touch it.

16. **DISCONNECTION OF CONNECTORS FOR STEERING WHEEL PAD, FRONT PASSENGER AIRBAG ASSEMBLY AND CURTAIN SHIELD AIRBAG ASSEMBLY**

HINT:

Tape the screwdriver tip before use.

a. Release the lock button (yellow part) of the connector using a screwdriver.
b. Insert a screwdriver tip between the connector and the base and lever up the connector.

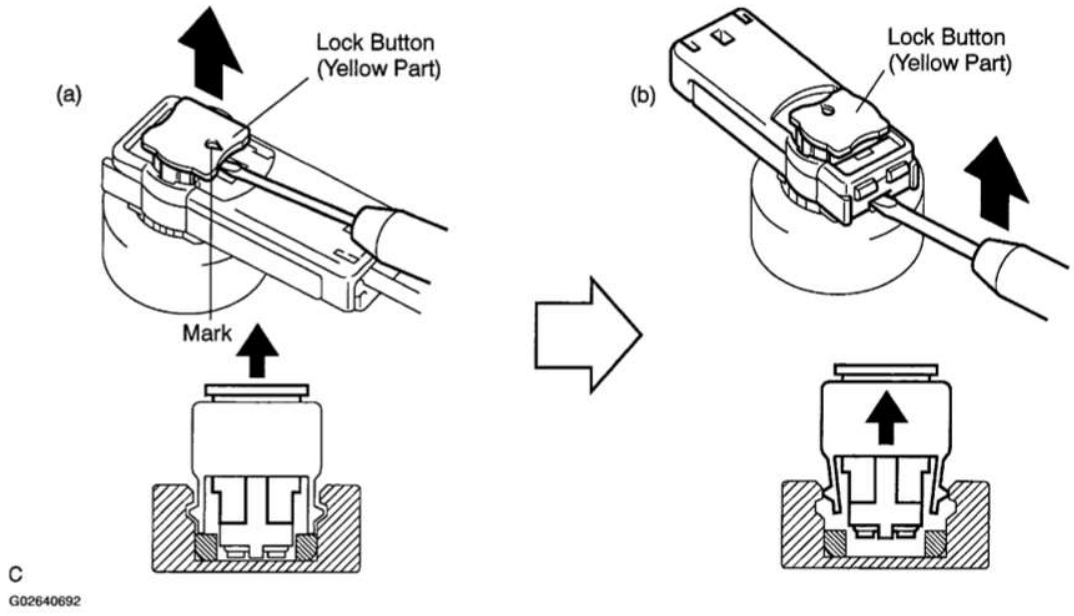


Fig. 26: Disconnecting Connectors For Steering Wheel Pad, Front Passenger Airbag Assembly & Curtain Shield Airbag Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

17. **CONNECTION OF CONNECTORS FOR STEERING WHEEL PAD, PASSENGER AIRBAG ASSEMBLY AND CURTAIN SHIELD AIRBAG ASSEMBLY**

a. Connect the connector.
b. Completely push down the lock button (yellow part) of the connector. When locking, a click sound should be heard.

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

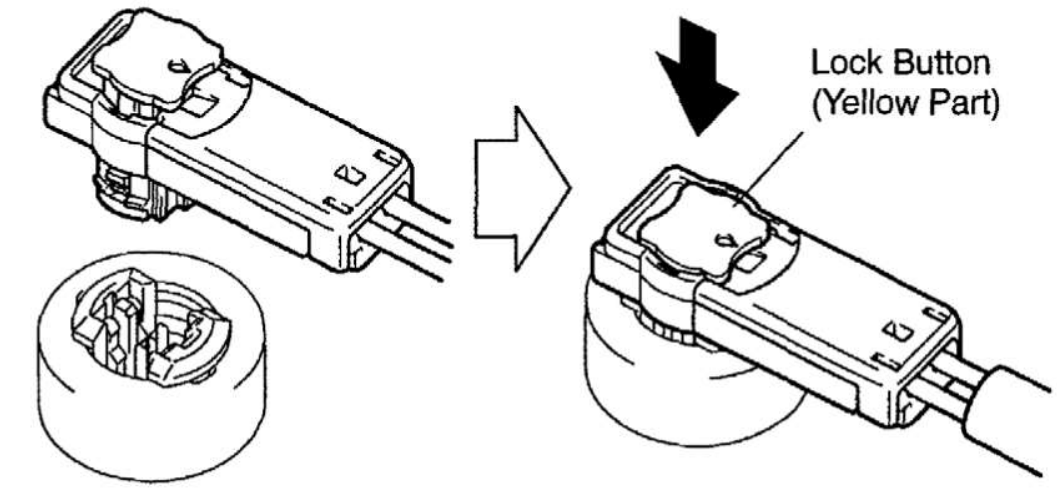


Fig. 27: Connecting Connectors For Steering Wheel Pad, Passenger Airbag Assembly & Curtain Shield Airbag Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

18. **DISCONNECTION OF CONNECTORS FOR FRONT PASSENGER AIRBAG ASSEMBLY JOINING CONNECTORS FOR INSTRUMENT PANEL WIRE**
    a. Place a finger on the slider.
    b. Slide the slider to release the lock.
    c. Disconnect the connector.

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

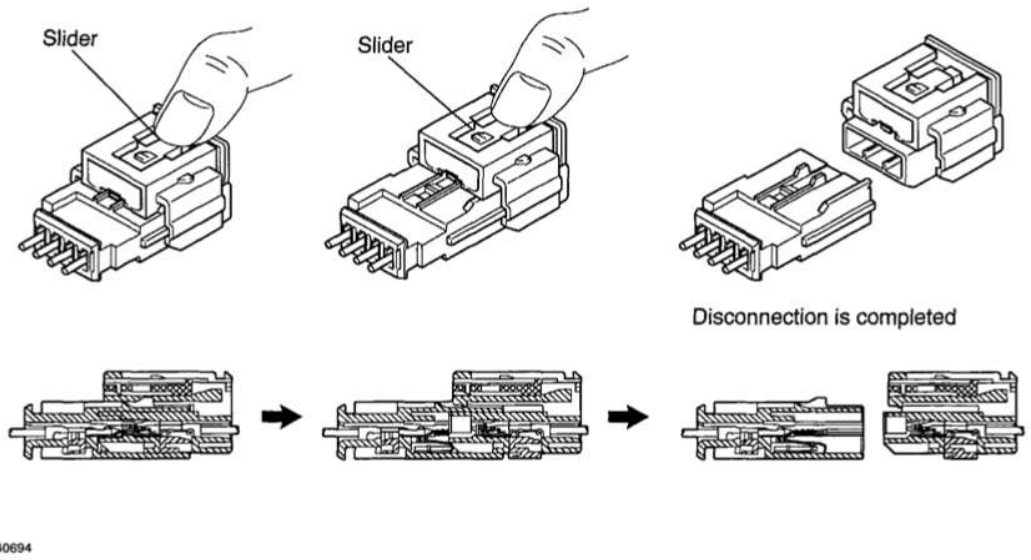


Fig. 28: Disconnecting Connectors For Front Passenger Airbag Assembly Joining Connectors For Instrument Panel Wire
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

19. **CONNECTION OF CONNECTORS FOR FRONT PASSENGER AIRBAG ASSEMBLY JOINING CONNECTORS FOR INSTRUMENT PANEL WIRE**
    a. Align a lock part of the male connector and a slider of the female connector as shown in the illustration, and fit them without rubbing.
    b. Be sure to fit the connectors until they are locked. After fitting, pull them slightly to check that they are locked. When locked, make sure that the outer returns to its original position and a click sound is heard.

    HINT:

    - As the slider slides, do not touch it.
    - Be careful not to deform the release board. If the release board is deformed, replace it with a new one.

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

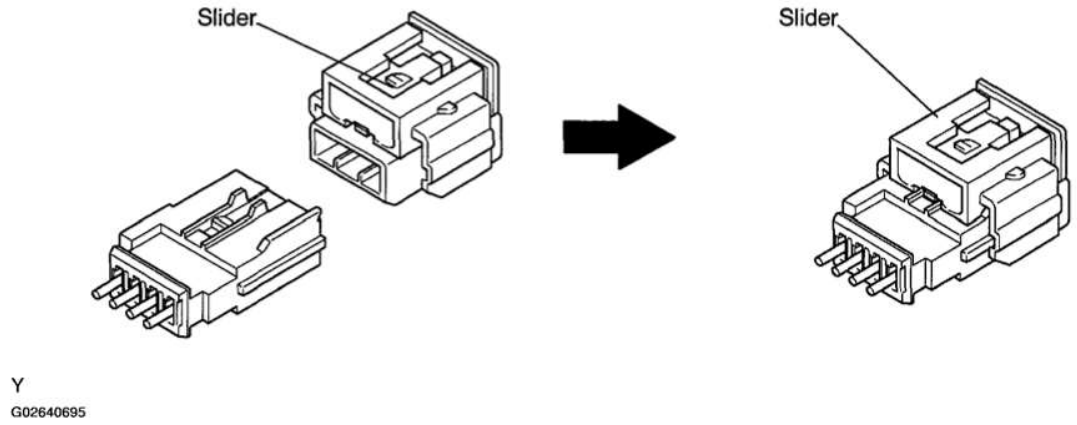


Fig. 29: Aligning Lock Part Of Male Connector And Slider Of Female Connector
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

20. **DISCONNECTION OF SEAT POSITION SENSOR ASSEMBLY**
    a. Place a finger on the slider.
    b. Slide the slider to release the lock.
    c. Disconnect the connector.

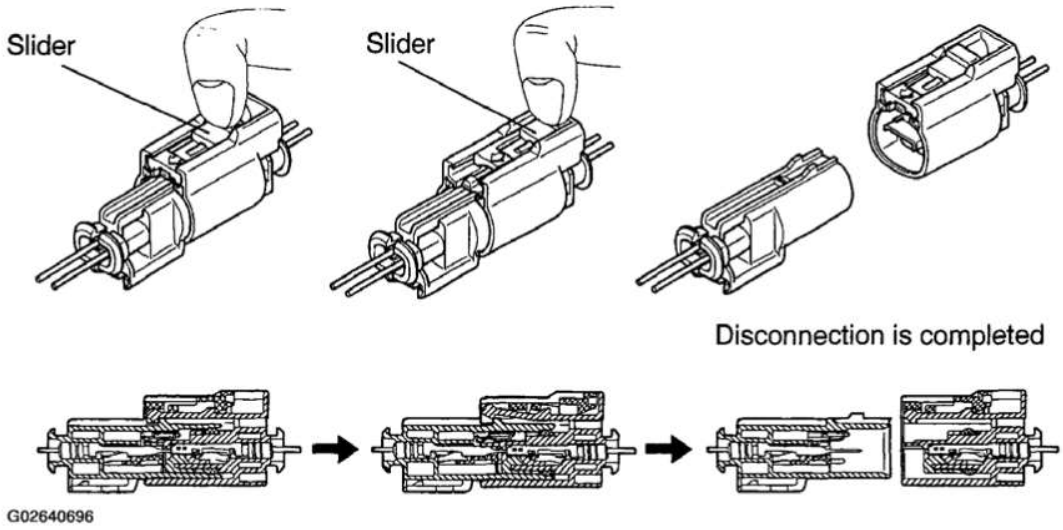


Fig. 30: Disconnecting Seat Position Sensor Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

21. **CONNECTION OF SEAT POSITION SENSOR ASSEMBLY**

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

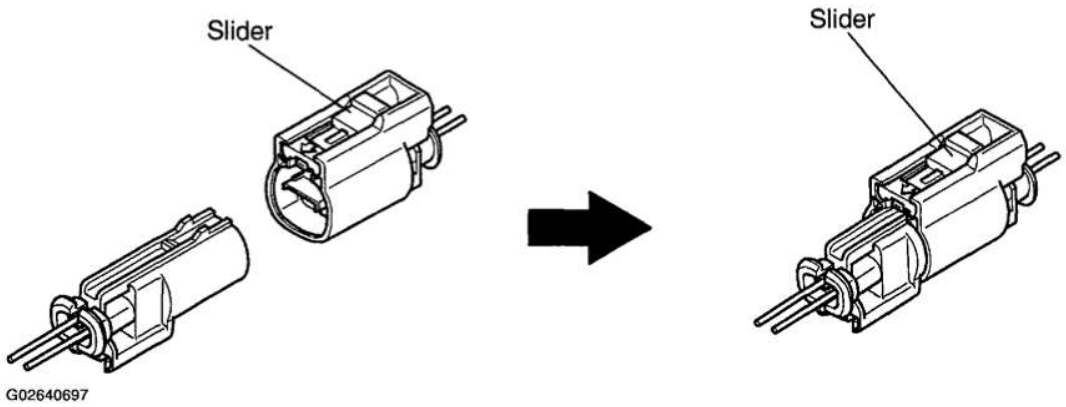


Fig. 31: Connecting Seat Position Sensor Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

a. Align a lock part of the male connector and a slider of the female connector as shown in the illustration, and fit them without rubbing.
b. Be sure to fit the connectors until they are locked. After fitting, pull them slightly to check that they are locked. When locked, make sure that the outer returns to its original position and a click sound is heard.

HINT:

- As the slider slides, do not touch it.
- Be careful not to deform the release board. If the release board is deformed, replace it with a new one.

22. **DISCONNECTION OF CONNECTOR FOR AIRBAG SENSOR ASSEMBLY**

a. Pull the lever by pushing the part A as shown in the illustration and disconnect the holder (with connectors).

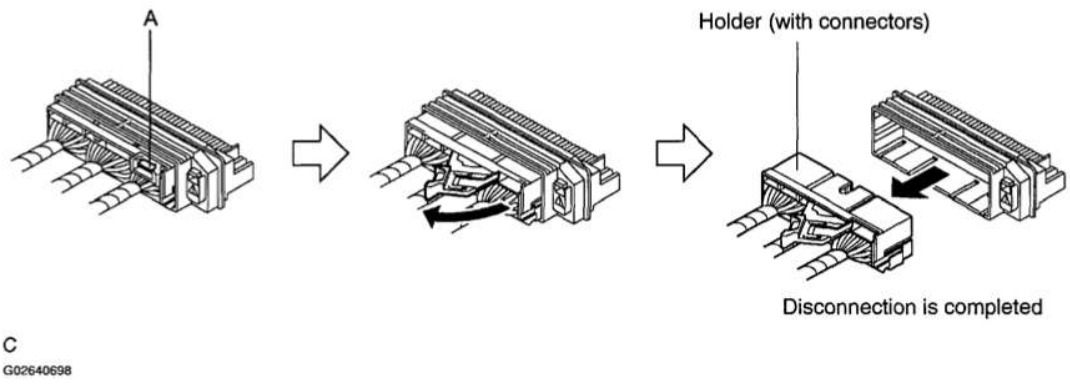


Fig. 32: Disconnection Of Connector For Airbag Sensor Assembly

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

HINT:

Perform the following procedures when replacing the holder.

b. Remove the holder.
   1. Using a screwdriver, remove the retainer.
   2. Release the claw fitting and remove the holder.

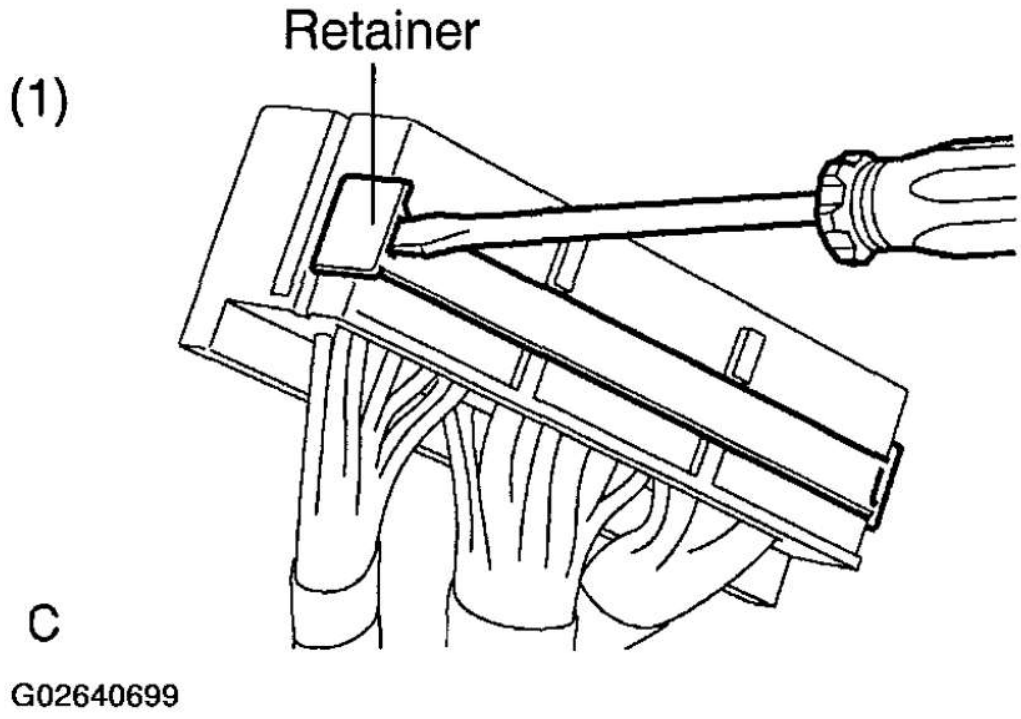


Fig. 33: Removing Retainer Using Screwdriver
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

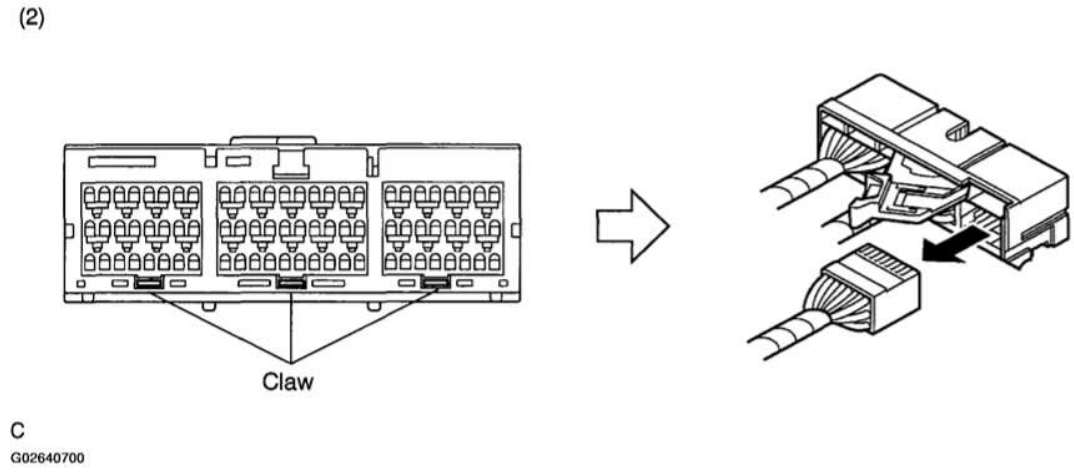


Fig. 34: Releasing Claw Fitting
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

c. Install the holder.
   1. Install the connector to the holder. When locking, a click sound should be heard.
   2. Install the retainer.

cardiagn.com

2005 Toyota RAV4
2005 RESTRAINTS Supplemental Restraint System - RAV4

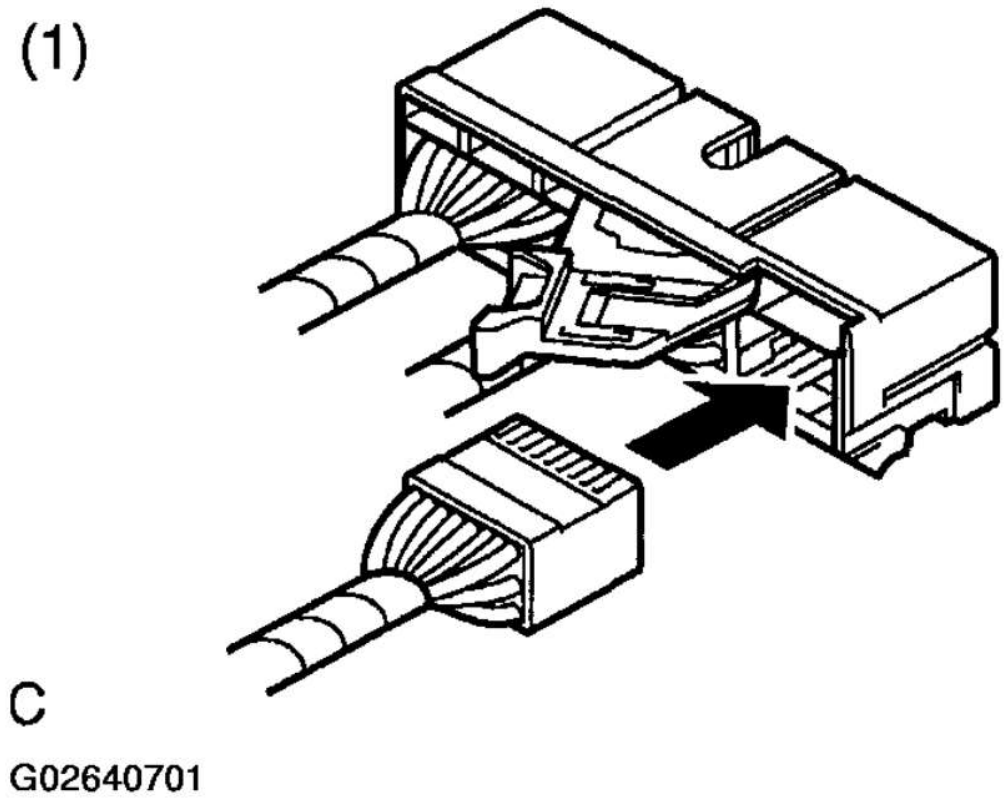


Fig. 35: Installing Connector To Holder
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

(2)

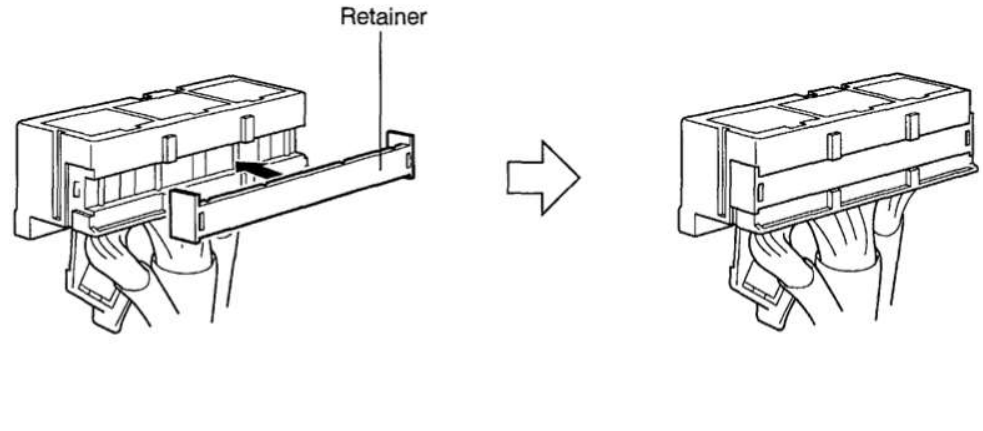


Fig. 36: Installing Retainer
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

23. **CONNECTION OF CONNECTOR FOR AIRBAG SENSOR ASSEMBLY**
    a. Firmly inert the holder (with connectors) until it cannot be pushed any further.
    b. Push the lever to connect the holder (with connectors). When locking, a click sound should be heard.

    HINT:

    The holder slides when connected. Holding the holder when connecting may result in an insecure connection

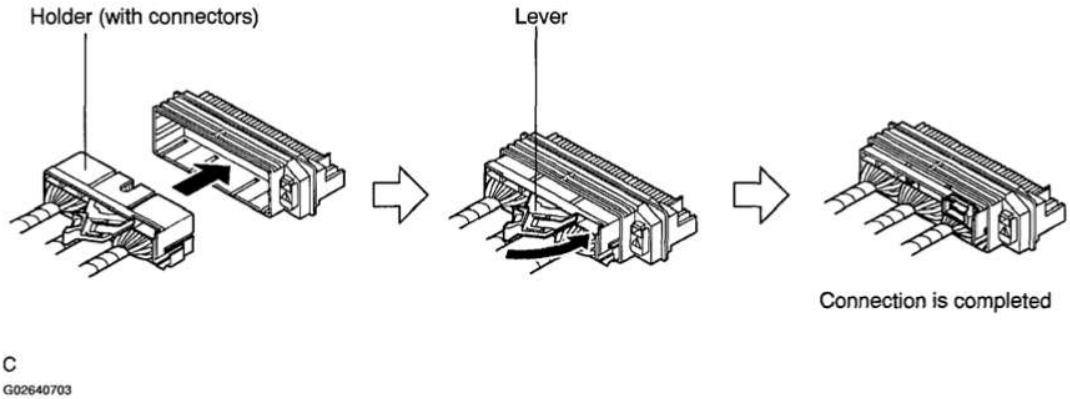


Fig. 37: Connection Of Connector For Airbag Sensor Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

STEERING WHEEL PAD AND SPIRAL CABLE

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

COMPONENTS

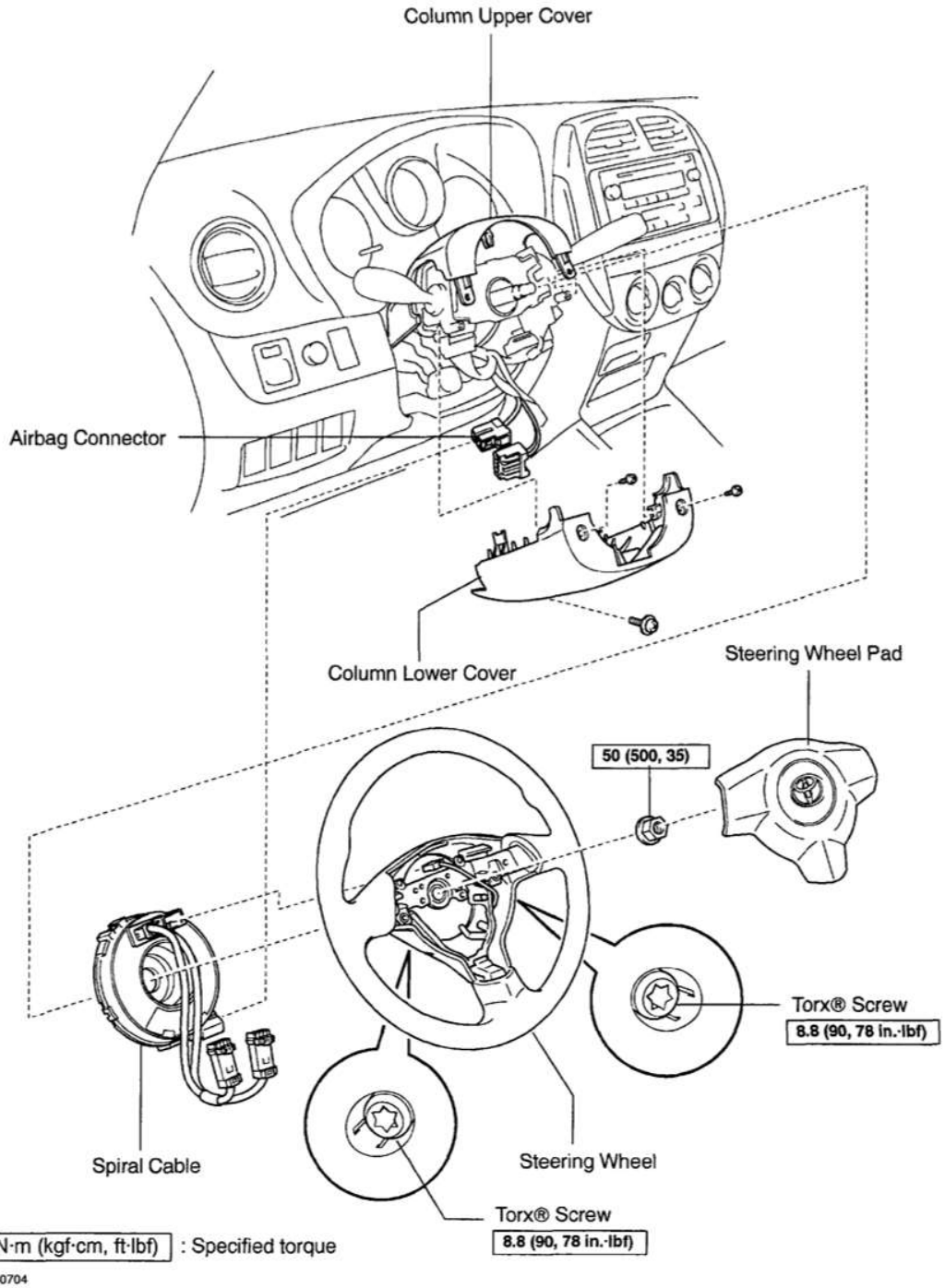


Fig. 38: Identifying Steering Wheel Pad And Spiral Cable Components & Torque Specifications
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

cardiagn.com

2005 Toyota RAV4
2005 RESTRAINTS Supplemental Restraint System - RAV4

REMOVAL

HINT:

For steps 1 to 4, refer to **REMOVAL** .

1. **REMOVE STEERING WHEEL PAD**
2. **REMOVE STEERING WHEEL**
3. **REMOVE COLUMN LOWER COVER**
4. **REMOVE SPIRAL CABLE**

INSPECTION

1. **Vehicles not involved in a collision: INSPECT SUPPLEMENTAL RESTRAINT SYSTEM**
   a. Check the diagnostic system (see **PRE-CHECK**).
   b. Visually check the following items with the steering wheel pad (with airbag) installed in the vehicle.

      Check for cuts, minute cracks or marked discoloration on the steering wheel pad top surface and in the grooved portion.

2. **Vehicles involved in a collision and airbag not deployed: INSPECT SUPPLEMENTAL RESTRAINT SYSTEM**
   a. Check the diagnostic system (see **PRE-CHECK**).

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

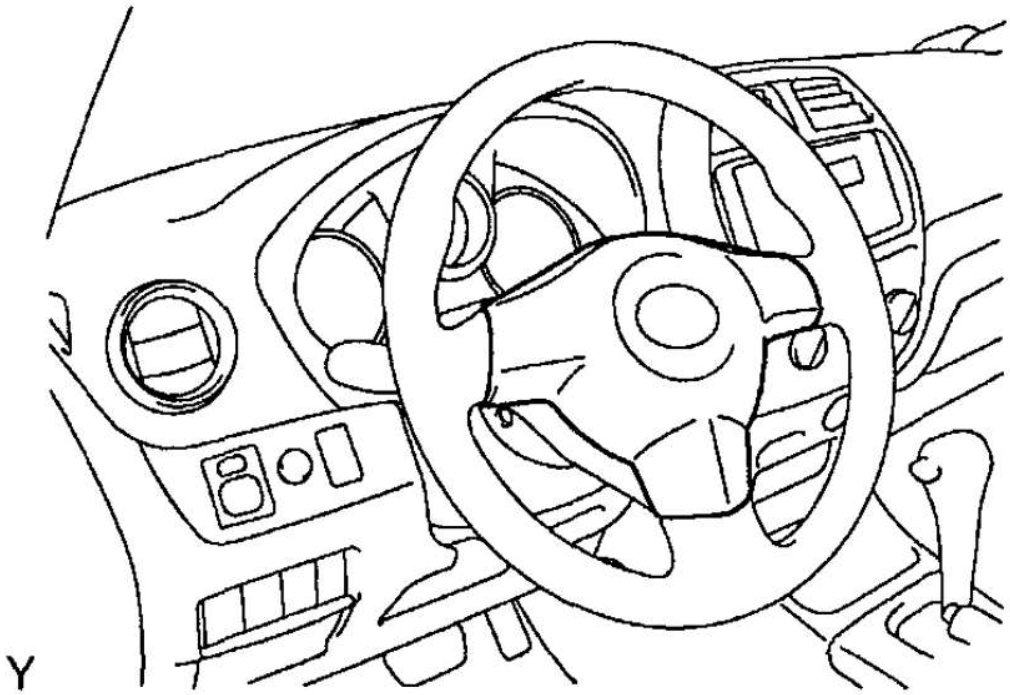


Fig. 39: Identifying Steering Wheel Pad (With Airbag)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

b. Visually check the following items with the steering wheel pad (with airbag) removed from the vehicle.
   - Check for cuts, minute cracks or marked discoloration on the steering wheel pad top surface and in the grooved portion.
   - Check for cuts and cracks in the wire harness, and chips in the connectors.

cardiagn.com

2005 Toyota RAV4
2005 RESTRAINTS Supplemental Restraint System - RAV4

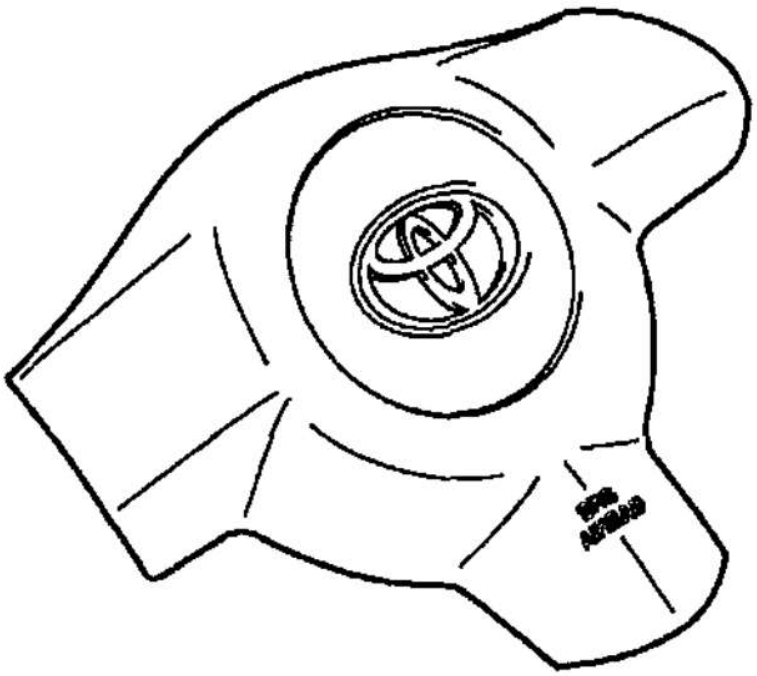


Fig. 40: Checking Steering Wheel Pad Top Surface & Grooved Portion
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- Check the deformation of the horn button contact plate of the steering wheel.

CAUTION: For removal and installation of the steering wheel pad, see REMOVAL and INSTALLATION. Be sure to follow the correct procedure.

HINT:

- If the contact plate of the steering wheel pad is deformed, do not try to repair it. Always replace the steering wheel pad assembly with a new one.
- There should be no interference between the steering wheel pad and steering wheel, and the clearance should be uniform all the way around when the new steering wheel pad is installed on the steering wheel.

cardiagn.com

2005 Toyota RAV4
2005 RESTRAINTS Supplemental Restraint System - RAV4

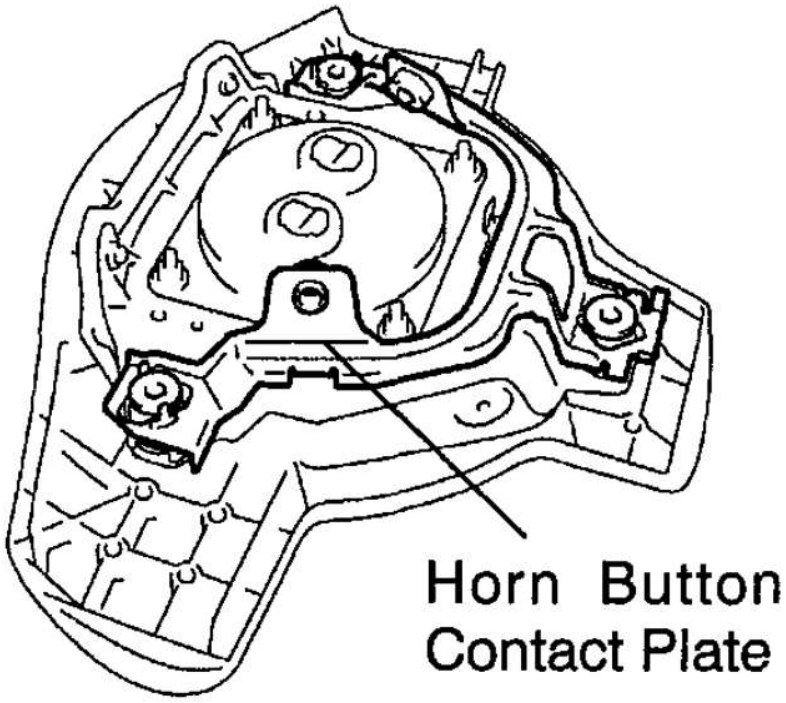


Fig. 41: Checking Deformation Of Horn Button Contact Plate Of Steering Wheel
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

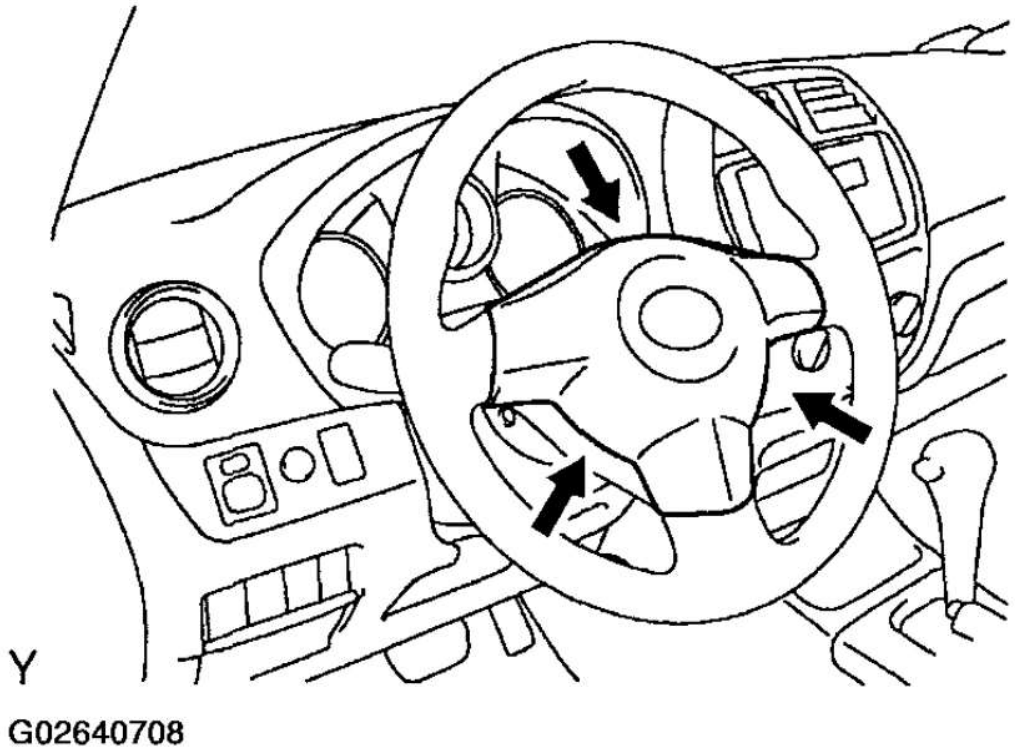


Fig. 42: Locating Horn Button Contact Plate Of Steering Wheel Pad
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

3. **Vehicles involved in a collision and airbag deployed: INSPECT SUPPLEMENTAL RESTRAINT SYSTEM**
   a. Check the diagnostic system (see **PRE-CHECK**).
   b. Visually check the following items with the steering wheel pad (with airbag) removed from the vehicle.
      - Check for the deformation on the horn button contact plate of the steering wheel.
      - Check for the damage on the spiral cable connector and wire harness.

CAUTION: For removal and installation of the steering wheel pad, see REMOVAL and INSTALLATION. Be sure to follow the correct procedure.

HINT:

- If the horn button contact plate of the steering wheel pad is deformed, do not try to repair it. Always replace the steering wheel pad assembly with a new one.

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

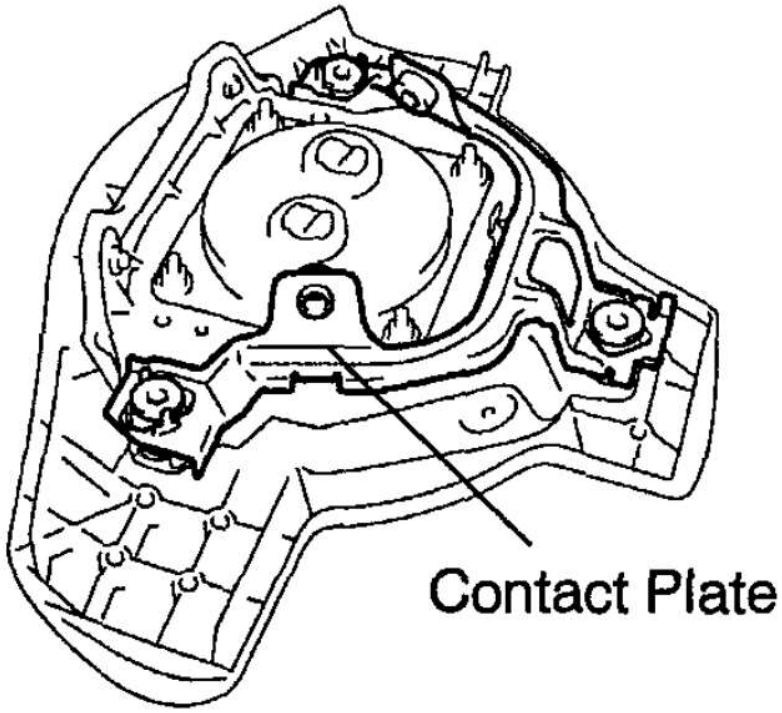


Fig. 43: Identifying Horn Button Contact Plate
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- There should be no interference between the steering wheel pad and steering wheel, and the clearance should be uniform all the way around when the new steering wheel pad is installed on the steering wheel.

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

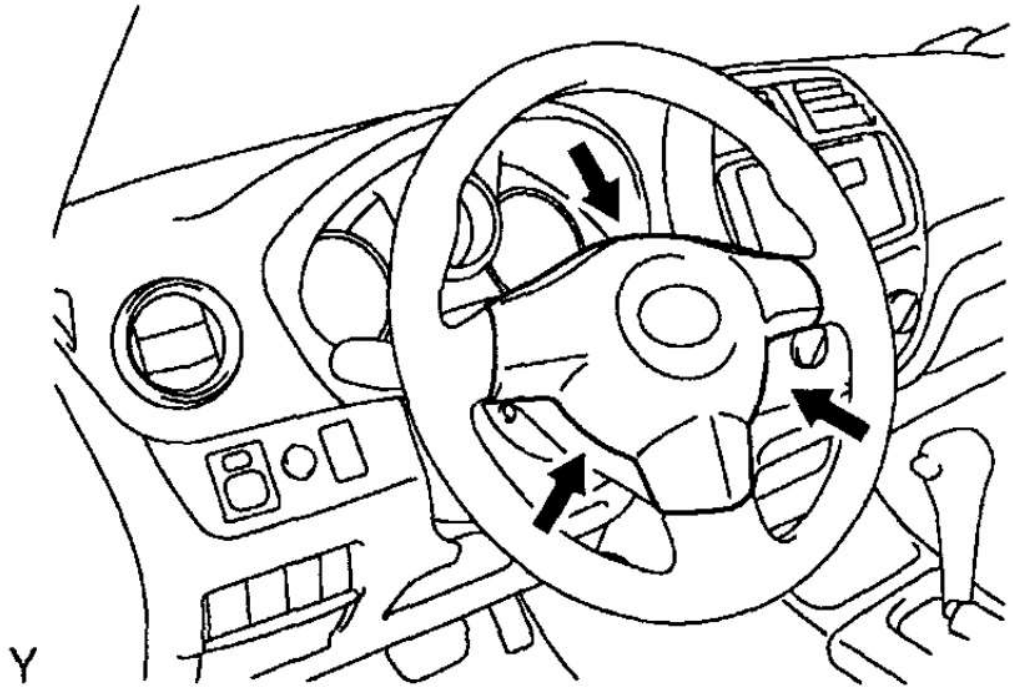


Fig. 44: Checking Steering Wheel Pad Fit
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

cardiagn.com

DISPOSAL

HINT:

When scrapping vehicle equipped with an SRS or disposing of a steering wheel pad (with airbag), always first deploy the airbag in accordance with the procedure described below. If any abnormality occurs with the airbag deployment, contact the SERVICE DEPT. of TOYOTA MOTOR SALES, U.S.A., INC.

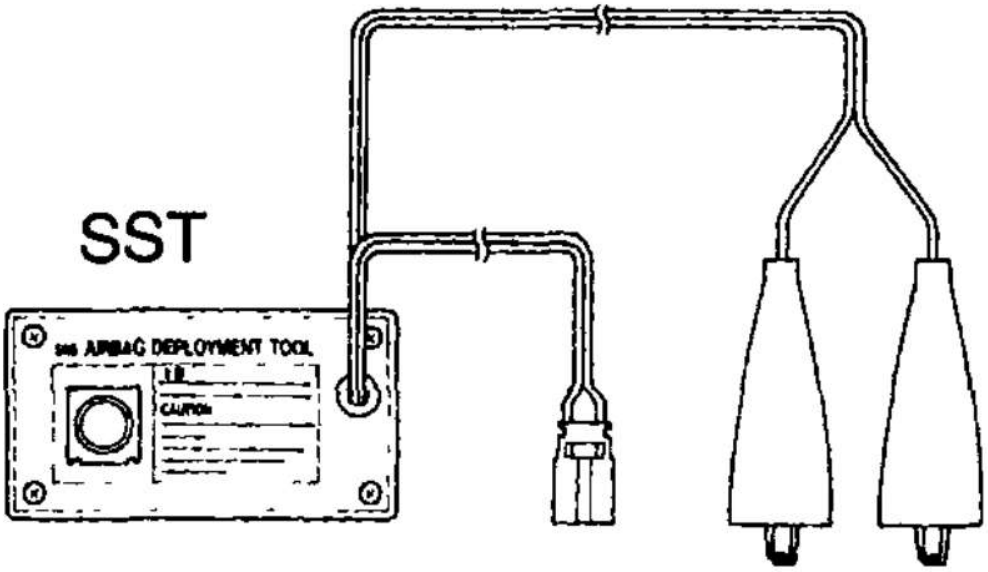
CAUTION:

- **Never dispose of a steering wheel pad which has an undeployed airba**
- **The airbag produces a sizeable exploding sound when it deploys. Perform the operation out-of-doors and where it will not disturb nearb residents.**
- **When deploying the airbag, always use the specified SST (SRS Airbag Deployment Tool). Perform the operation in a place away from electric noise.**

2005 Toyota RAV4
2005 RESTRAINTS Supplemental Restraint System - RAV4

SST 09082-00700

- **When deploying an airbag, perform the operation at least 10 m (33 ft) away from the steering wheel pad.**
- **The steering wheel pad is very hot when the airbag is deployed. Do no touch it for at least 30 minutes after deployment.**
- **Use gloves and safety glasses when handling a steering wheel pad wit the deployed airbag.**
- **Always wash your hands with water after completing the operation.**
- **Do not apply water to a steering wheel pad with the deployed airbag.**



G02640711

Fig. 45: Identifying SRS Airbag Deployment Tool SST
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

1. **DISPOSE OF STEERING WHEEL PAD (DEPLOYMENT METHOD WHEN SCRAPPING VEHICLE)**

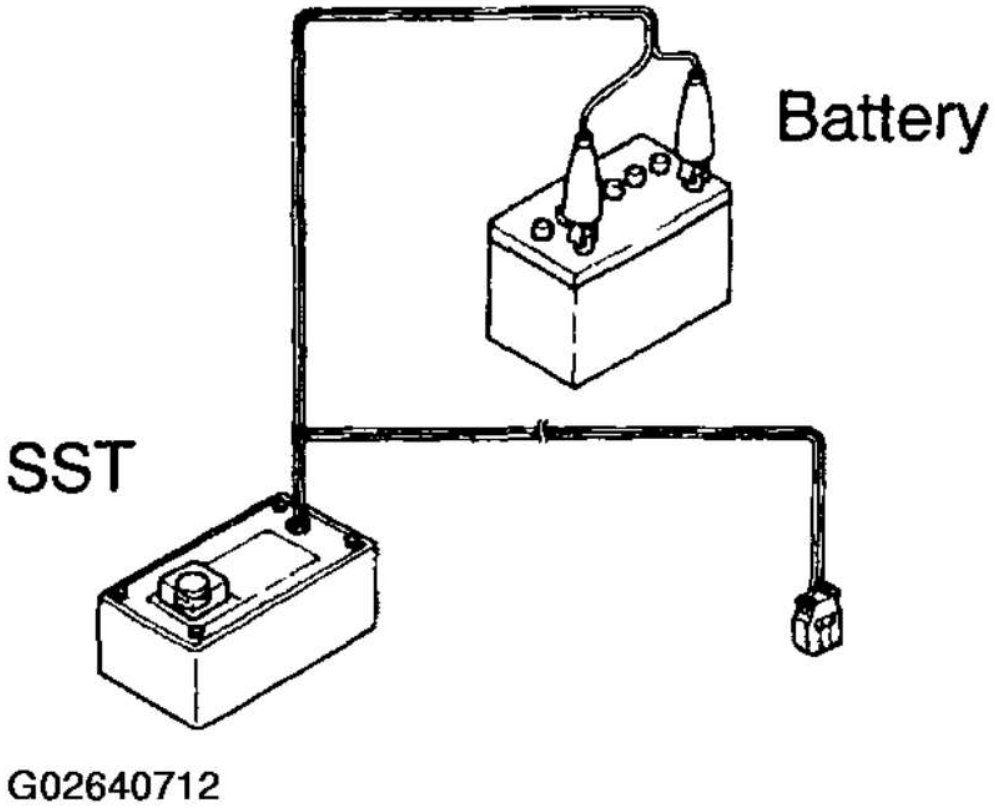
HINT:

Have a battery ready as the power source to deploy the airbag.

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4



cardiagn.com

Fig. 46: Power Source To Deploying Airbag
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

a. Check functioning of the SST.

CAUTION: When deploying the airbag, always use the specified SST: SRS Airbag Deployment Tool.

SST 09082-00700

2005 Toyota RAV4
2005 RESTRAINTS Supplemental Restraint System - RAV4

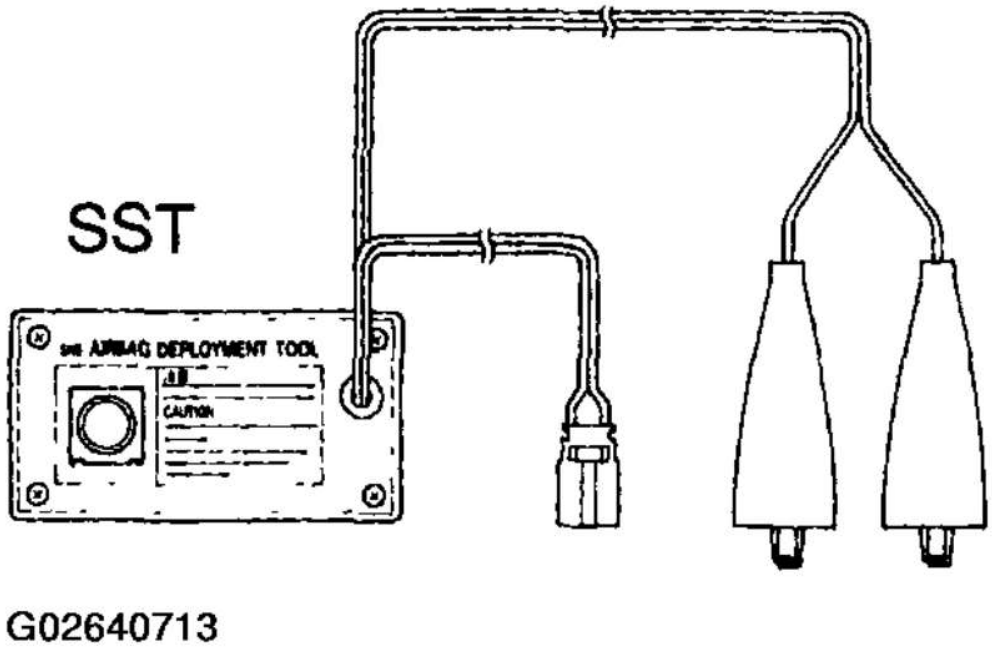


Fig. 47: Identifying SRS Airbag Deployment Tool SST
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

1. Connect the red clip of the SST to the battery positive (+) terminal and the black clip to the battery negative (-) terminal.

   HINT:

   Do not connect the yellow connector which will be connected with the supplemental restraint system.

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

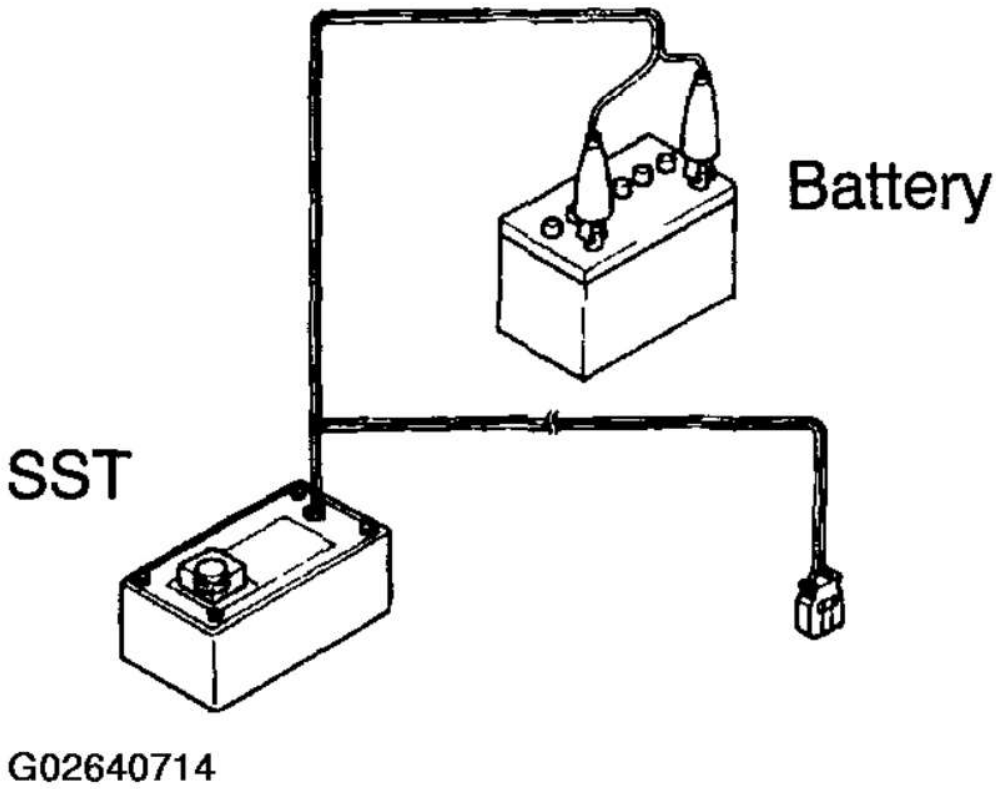


Fig. 48: Connecting Red Clip Of SST To Battery Positive (+) Terminal And Black Clip To Battery Negative (-) Terminal
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

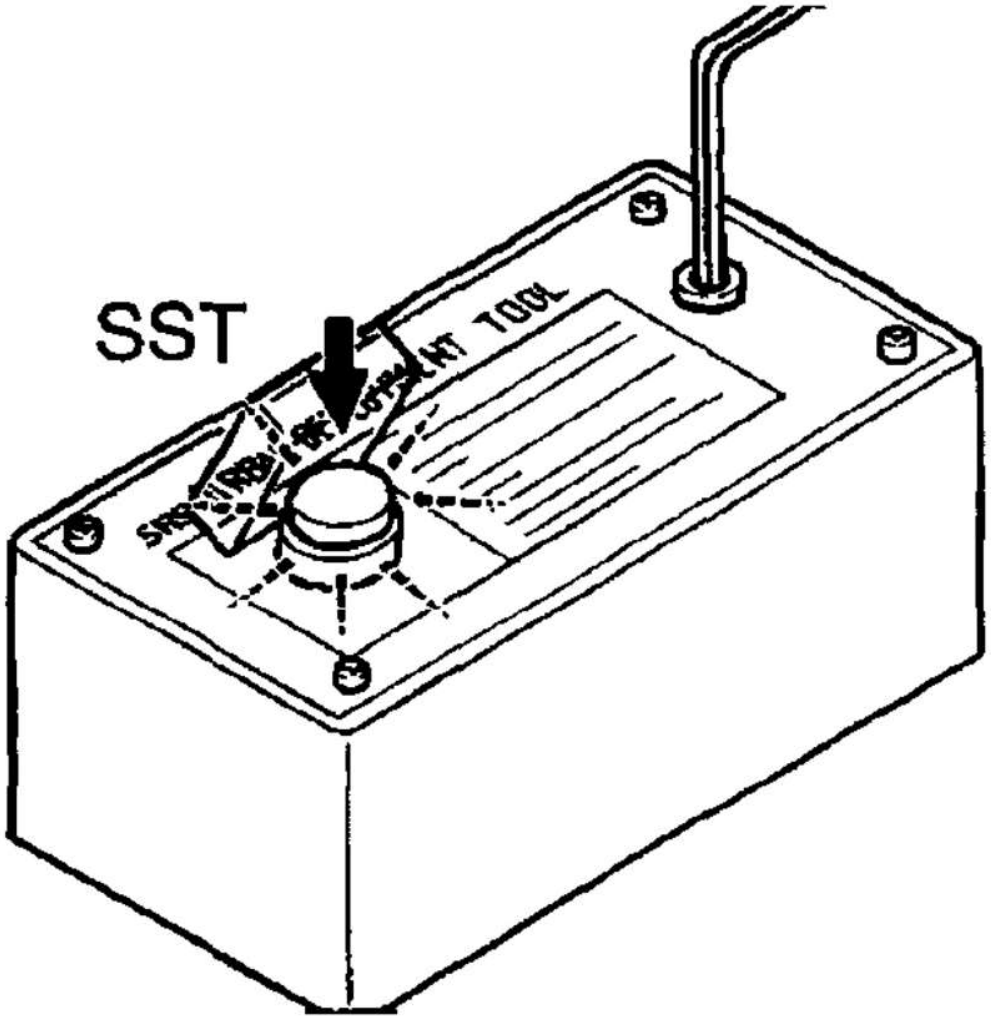
2. Press the SST activation switch, and check that the LED of the SST activation switch illuminates.

CAUTION: If the LED illuminates when the activation switch is not being pressed, SST may malfunction. Definitely do not use the SST.

3. Disconnect the SST from the battery.

cardiagn.com

2005 Toyota RAV4
2005 RESTRAINTS Supplemental Restraint System - RAV4



G02640715

Fig. 49: Pressing SST Activation Switch
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

b. Install the SST.

CAUTION: Check the steering wheel and steering wheel pad for looseness.

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

1. While turning the steering wheel right/left, remove the 3 screws and column lower cover.
2. Disconnect the airbag connector of the spiral cable.

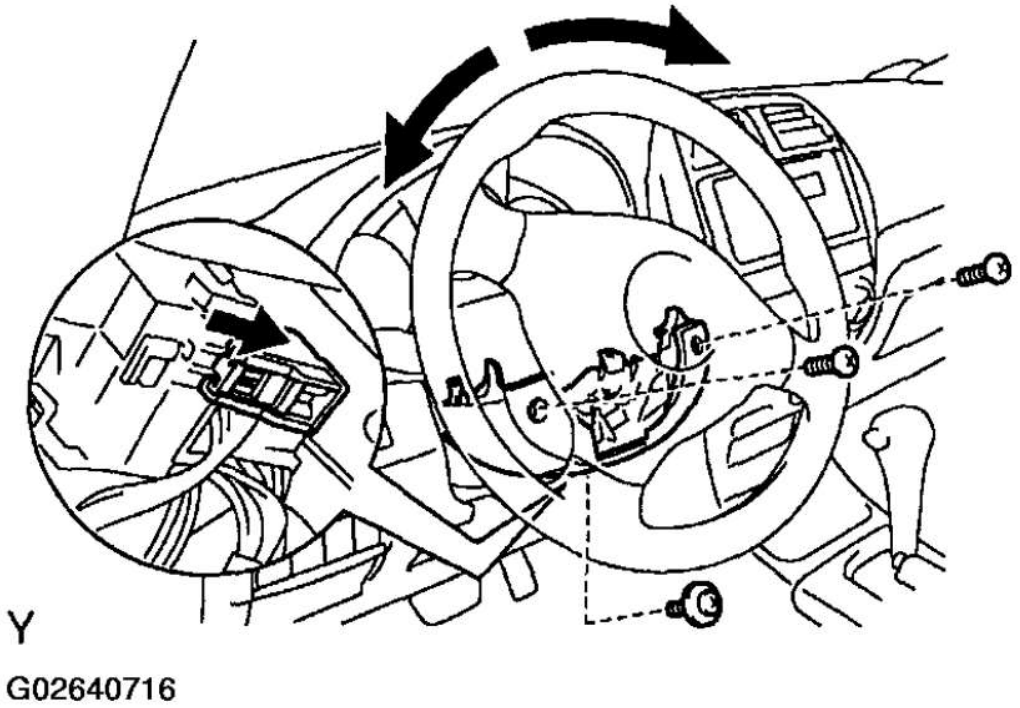


Fig. 50: Checking Steering Wheel And Steering Wheel Pad For Looseness
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

3. Connect the connectors of the 2 SSTs to the airbag connector of the spiral cable.

   SST 09082-00700, 09082-00760 (Single Inflator), 09082-00780 (Dual Inflator)

NOTE: To avoid damaging the connector of the SST and wire harness, do not lock the secondary lock of the twin lock.

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

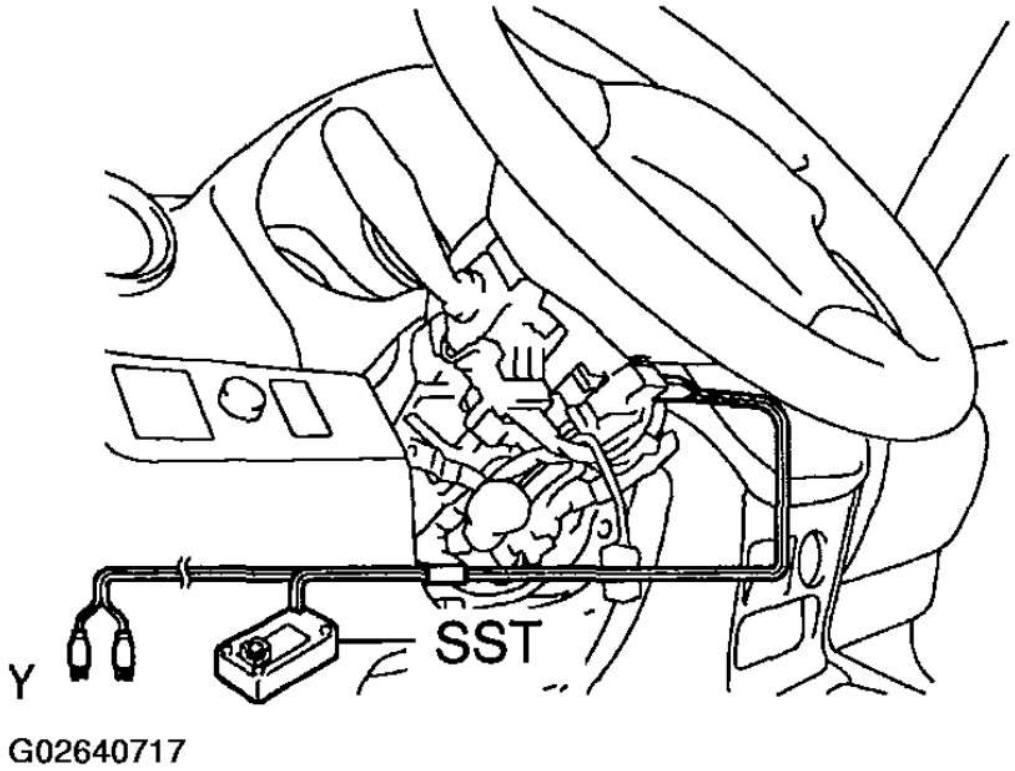


Fig. 51: Connecting Connectors Of SSTs To Airbag Connector Of Spiral Cable
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

4. Move the SST at least 10 m (33 ft) away from the front of the vehicle.
5. Close all the doors and windows of the vehicle.

HINT:

Do not close the windows fully. Allow clearance for inserting the SST wire harness.

NOTE: Take care not to damage the SST wire harness.

6. Connect the SST red clip to the battery positive (+) terminal and the black clip to the negative (-) terminal.

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

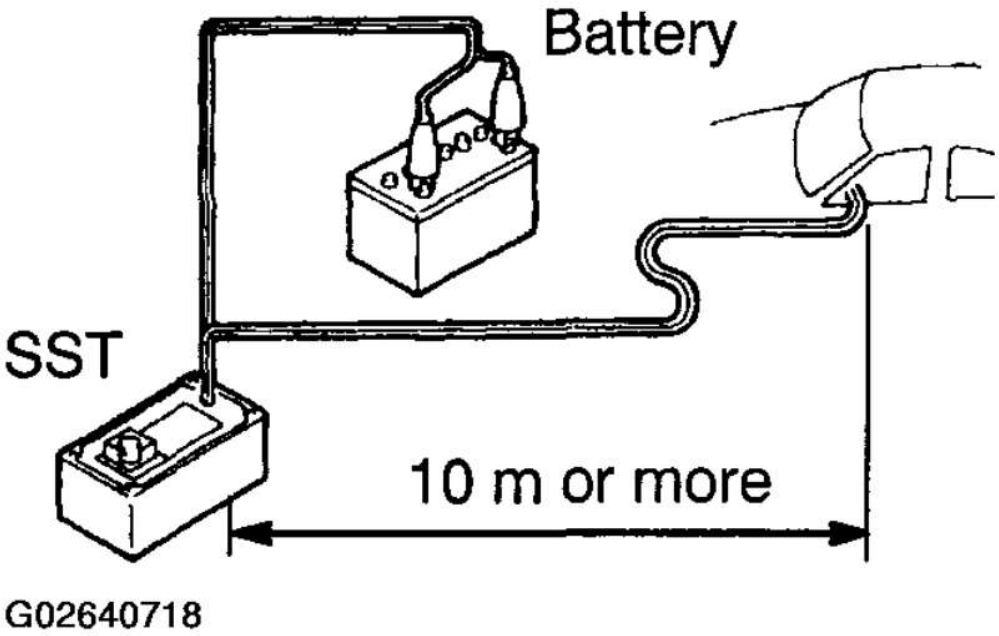


Fig. 52: Moving SST At Least 10 Meters Away From Front Of Vehicle
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

c. Deploy the airbag.
   1. Check that no one is inside the vehicle or within 10 m (33 ft) area around the vehicle.
   2. Press the SST activation switch and deploy the airbag.

   HINT:

   The airbag deploys simultaneously with the LED of the SST activation switch illuminating.

d. Dispose of the steering wheel pad.

CAUTION:

- **The steering wheel pad is very hot when the airbag is deplo touch it for at least 30 minutes after deployment.**
- **Use gloves and safety glasses when handling a steering wh the deployed airbag.**
- **Always wash your hands with water after completing the op**
- **Do not apply water to a steering wheel pad with the deploye**
- **When scrapping a vehicle, deploy the airbag and scrap the**

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

the steering wheel pad still installed.

- **When moving a vehicle for scrapping which has a steering v deployed airbag, use gloves and safety glasses.**

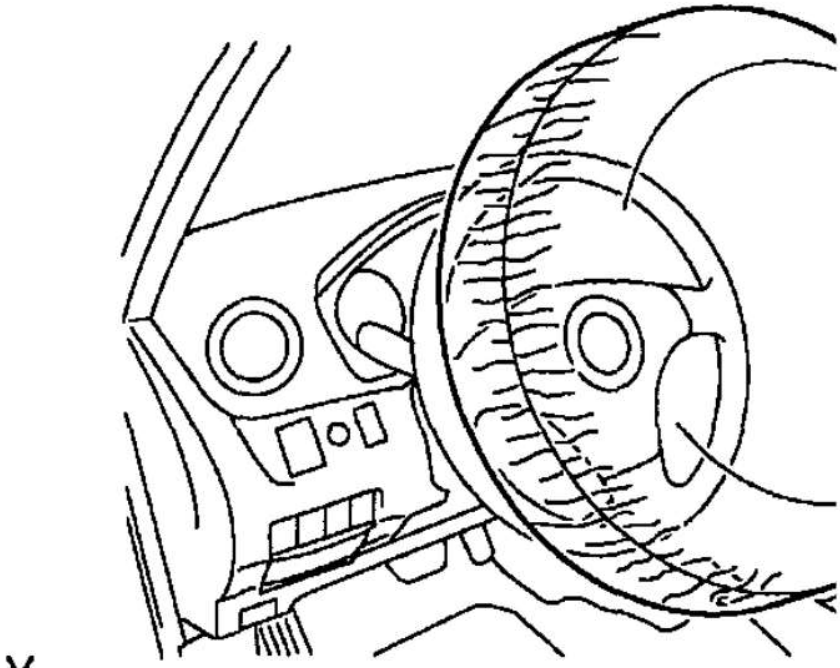


Fig. 53: Deploying Steering Wheel Pad Airbag
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. **DISPOSE OF STEERING WHEEL PAD (DEPLOYMENT METHOD WHEN DISPOSING OF AIRBAG ASSEMBLY)**

NOTE:

- **When disposing of the steering wheel pad (with airbag) only, never use the customer's vehicle to deploy the airbag.**
- **Be sure to follow the procedure given below when deploying the airbag.**

HINT:

Prepare a battery as the power source to deploy the airbag.

cardiagn.com

a. Check the function of the SST (see step ()).
b. Remove the steering wheel pad (see **REMOVAL**).

CAUTION:
- **When removing the steering wheel pad, work must be started at least 90 seconds after the ignition switch is turned to the LOCK position and the negative (-) terminal cable is disconnected from the battery.**
- **When storing the steering wheel pad, keep the upper surface of the pad facing up.**

c. Remove the connector on the steering wheel pad rear surface.
d. Using a service-purpose wire harness, tie down the steering wheel pad to a disc wheel.

Wire harness: Stripped wire harness section

1.25 mm^2 or more (0.0019 $in.^2$ or more)

CAUTION: If a very thin wire harness or some other thing is used to tie down the steering wheel pad, it may be cut by the shock when the airbag is deployed. This is highly dangerous. Always use a wire harness for vehicle use which is at least 1.25 mm^2 (0.0019 $in.^2$).

HINT:

To calculate the square of the stripped wire harness section:

Square = 3.14 x $(Diameter)^2$ / 4

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

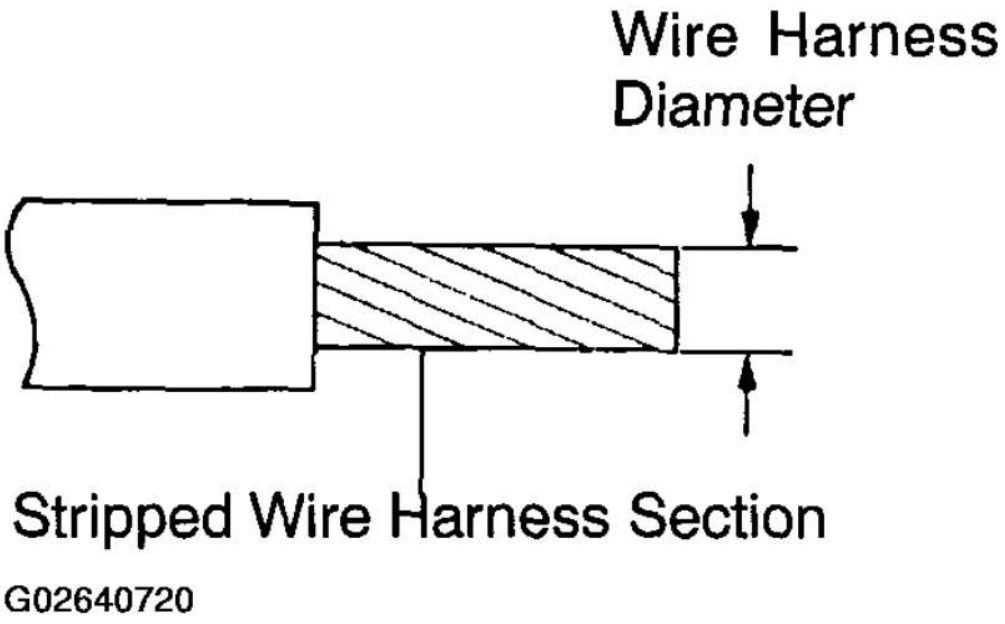


Fig. 54: Stripping Wire Harness Section
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

1. Install the 2 bolts with washers in the 2 bolt holes in the steering wheel pad.

   Bolt:

   L: 35.0 mm (1.378 in.)

   M: 6.0 mm (0.236 in.)

   Pitch: 1.0 mm (0.039 in.)

   NOTE:
   - **Tighten the bolts by hand until the bolts become difficult to turn.**
   - **Do not tighten the bolts too much.**

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

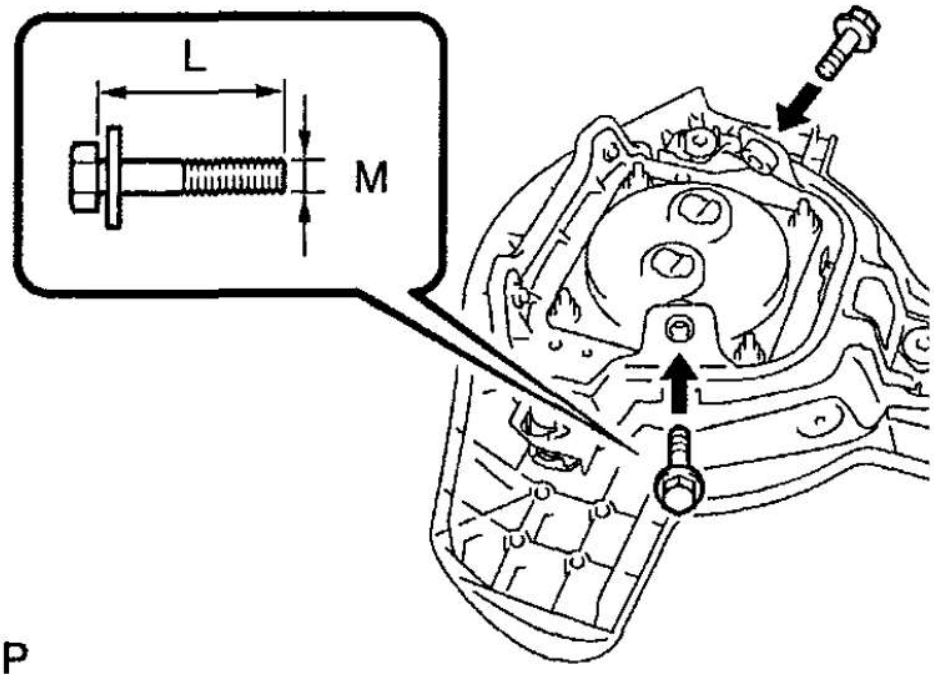


Fig. 55: Installing Bolts With Washers In Bolt Holes In Steering Wh
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. Using 2 wire harness, wind the wire harness at least 2 times each around the bolts installed on the left and right sides of the steering wheel pad.

CAUTION:

- **Tightly wind the wire harness around the bolts so that**
- **If there is slackness in the wire harness, the steering w come loose due to the shock when the airbag is deplo dangerous.**

cardiagn.com

2005 Toyota RAV4
2005 RESTRAINTS Supplemental Restraint System - RAV4

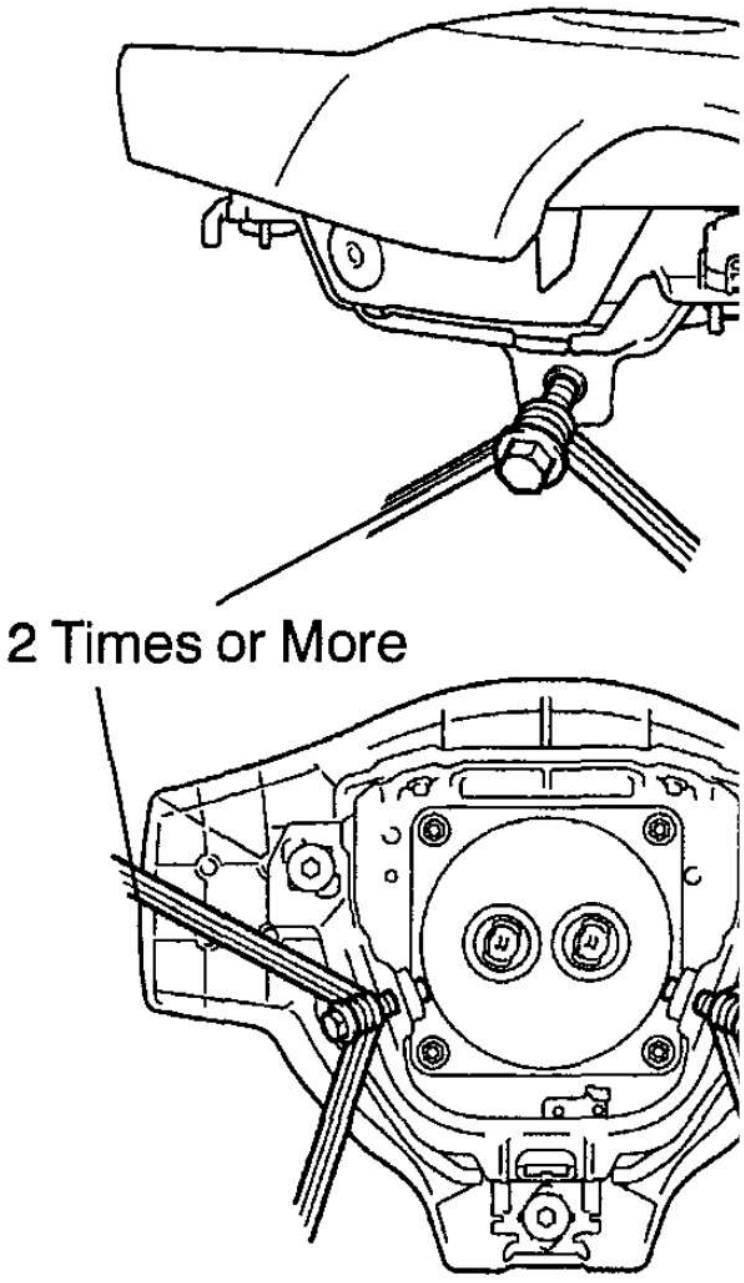


Fig. 56: Winding Wire Harness At Around Bolts

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

3. Face the upper surface of the steering wheel pad up. Separately tie the left and right sides of the steering wheel pad to the disc wheel through the hub nut holes. Position the steering wheel pad connector so that it hangs downward through a hub hole in the disc wheel.

CAUTION:

- **Make sure that the wire harness is tight. It is very dangerous if a loose wire harness results in the steering wheel pad coming free due to the shock from the airbag deployment.**
- **Always tie down the steering wheel pad with the pad side facing up. It is very dangerous if the steering wheel pad is tied down with the metal surface facing up as the wire harness will be cut by the shock from the airbag deployment and the steering wheel pad will be thrown into the air.**

NOTE: **The disc wheel will be marked by airbag deployment. When disposing of the airbag use a redundant disc wheel.**

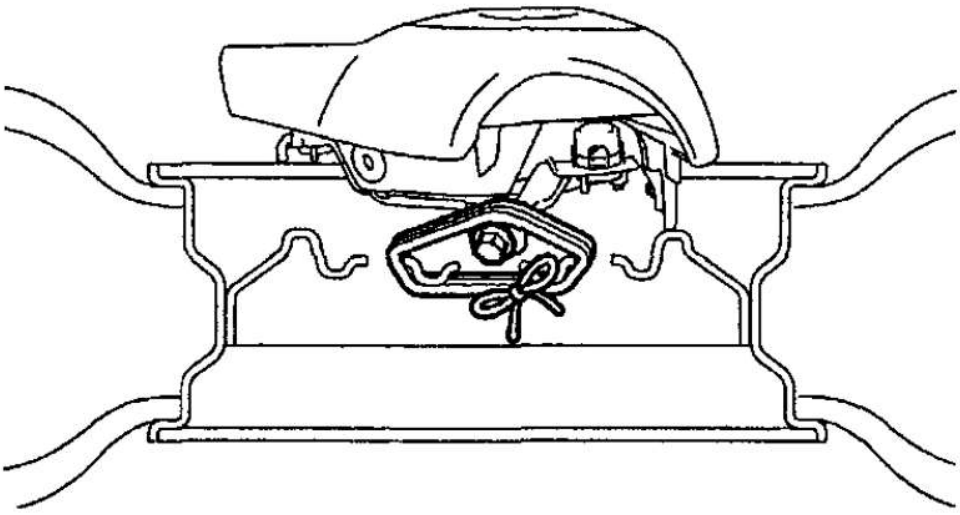


Fig. 57: Fastening Airbag To A Redundant Disc Wheel (Sectional View)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

cardiagn.com

3. Check functioning of the SST (see step).

   SST 09082-00700

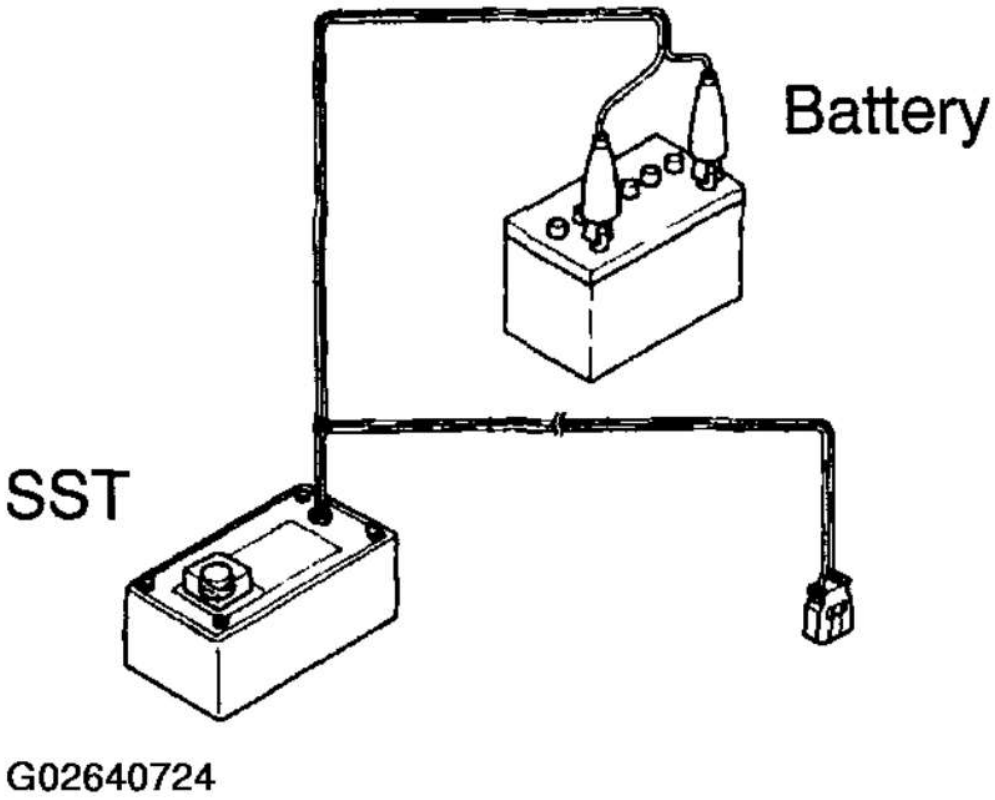


Fig. 58: Checking Functioning Of SST
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

4. Install the SST.

CAUTION: Place the disc wheel on the level ground.

1. Connect the connectors of the 2 SSTs to the steering wheel pad connector.

   SST 09082-00700, 09082-00802

cardiagn.com

2005 Toyota RAV4
2005 RESTRAINTS Supplemental Restraint System - RAV4

NOTE: **To avoid damaging the SST connector and wire harness, do not lock the secondary lock of the twin lock. Also, remove some slack for the SST wire harness inside the disc wheel.**

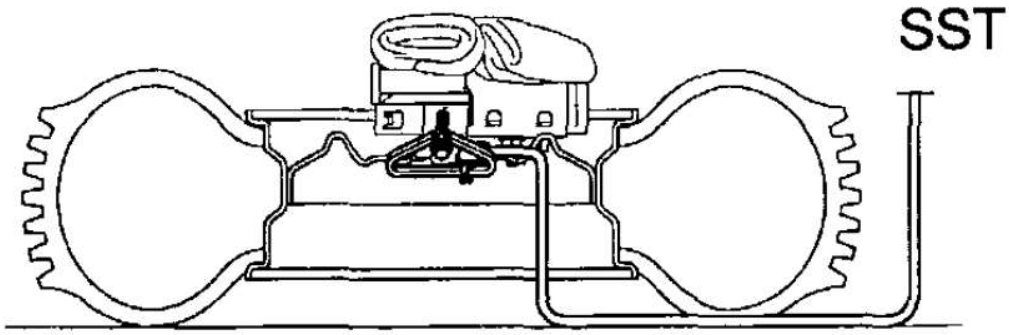


Fig. 59: Connecting Connectors Of SST To Steering Wheel Pad Connector
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. Move the SST to at least 10 m (33 ft) away from the steering wheel pad tied down on the disc wheel.

cardiagn.com

2005 Toyota RAV4
2005 RESTRAINTS Supplemental Restraint System - RAV4

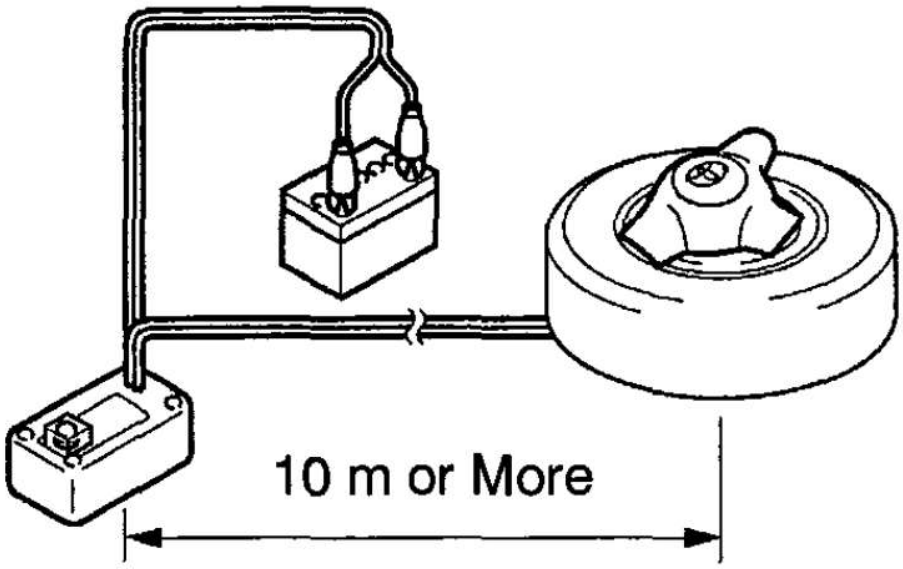


Fig. 60: Moving SST To At Least 10 M Away From Steering Wheel Pad Tied Down On Disc Wheel
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

5. Cover the steering wheel pad with a cardboard box or tires.
   - Covering method using a cardboard box: Cover the steering wheel pad with the cardboard box and weight the cardboard box down in 4 places with at least 190 N (20 kg, 44 lb).

   Size of cardboard box:

   Must exceed the following dimensions:

   X = 460 mm (18.11 in.)

   Y = 650 mm (25.59 in.)

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

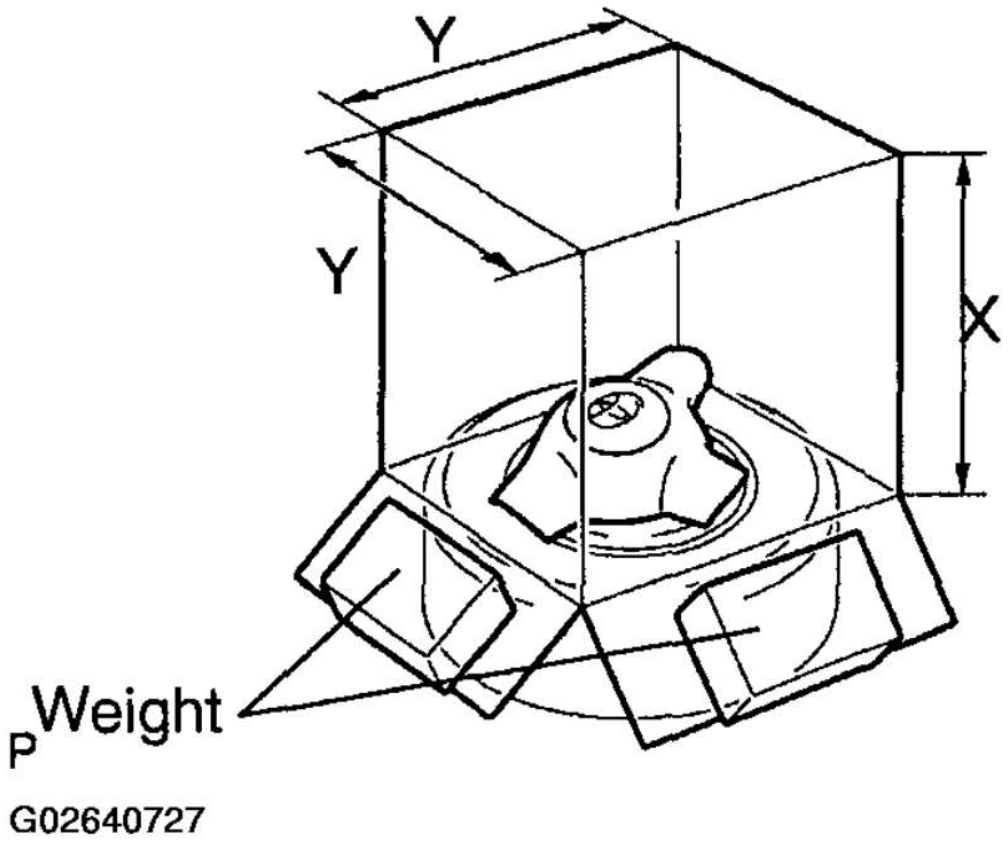


Fig. 61: Covering Steering Wheel Pad With Weighted Cardboard Box
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

NOTE:

- **When dimension Y of the cardboard box exceeds the diameter of the disc wheel with tire to which the steering wheel pad is tied, X should be the following size. X = 460 mm (18.11 in.) + width of tire**
- **If a cardboard box smaller than the specified size is used, the cardboard box will be broken by the shock from the airbag deployment.**

- Covering method using tires:

  Place at least 3 tires without disc wheels on the top of the disc wheel with tire to which the steering wheel pad is tied.

cardiagn.com

2005 Toyota RAV4
2005 RESTRAINTS Supplemental Restraint System - RAV4

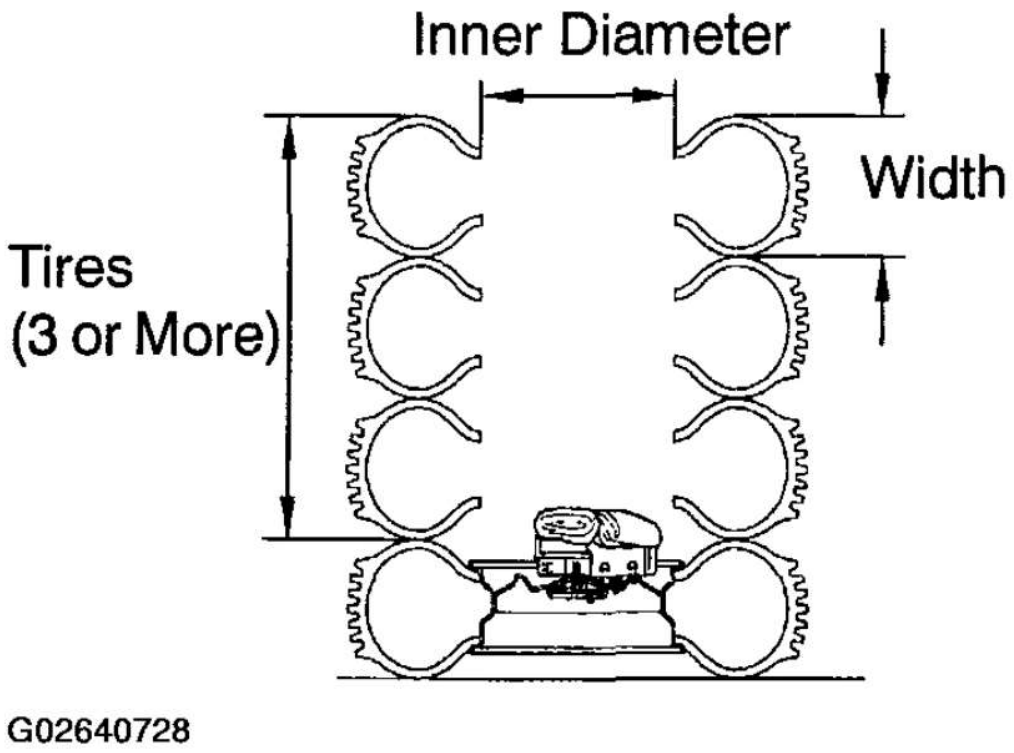


Fig. 62: Covering Steering Wheel Pad With Tires
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

Tire size: Must exceed the following dimensions:

Width: 185 mm (7.28 in.)

Inner diameter: 360 mm (14.17 in.)

CAUTION: Do not use tires with disc wheels.

NOTE: The tires may be marked by the airbag deployment. Use redundant tires.

cardiagn.com

2005 Toyota RAV4
2005 RESTRAINTS Supplemental Restraint System - RAV4

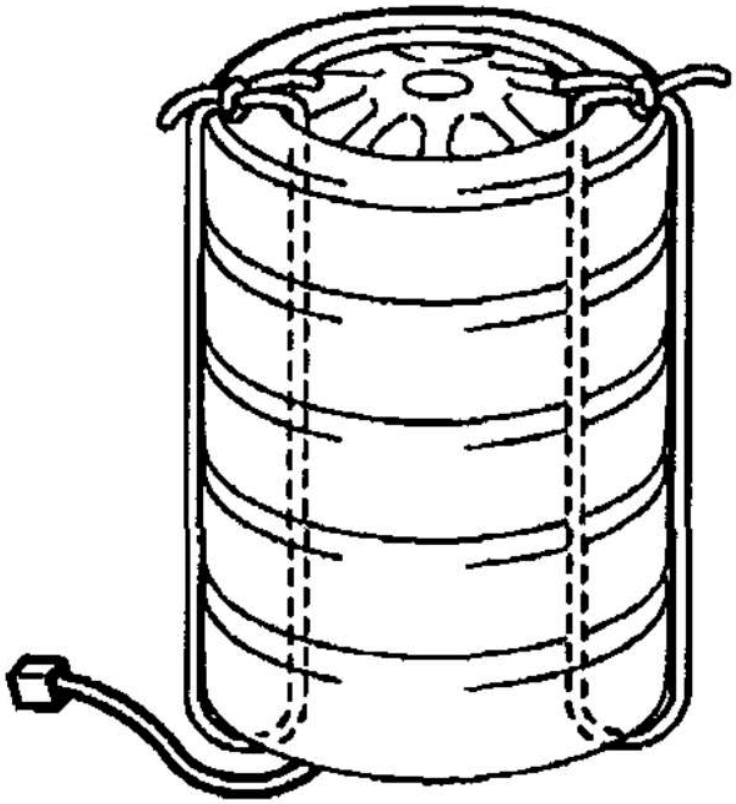


Fig. 63: Deploying Airbag (Secure Tires Together)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

6. Deploy the airbag.
    1. Connect the SST red clip to the battery positive (+) terminal and the black clip to the battery negative (-) terminal.
    2. Check that no one is within 10 m (33 ft) area around the disc wheel which the steering wheel pad is tied to.
    3. Press the SST activation switch and deploy the airbag.

HINT:

The airbag deploys simultaneously with the LED of the SST activation switch illuminating.

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

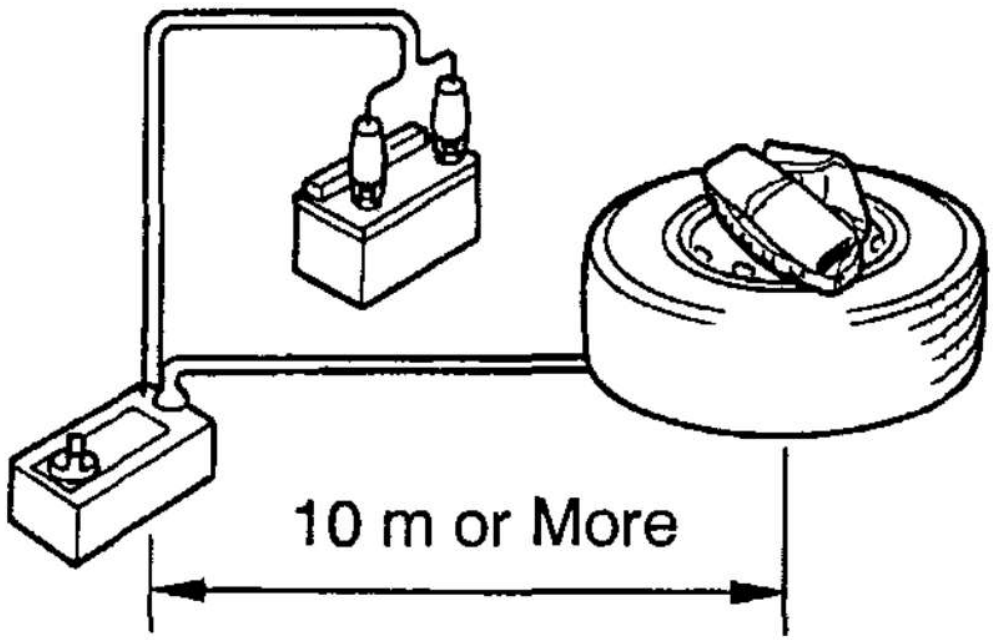


Fig. 64: Identifying Safe Distance Area Around Disc Wheel
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

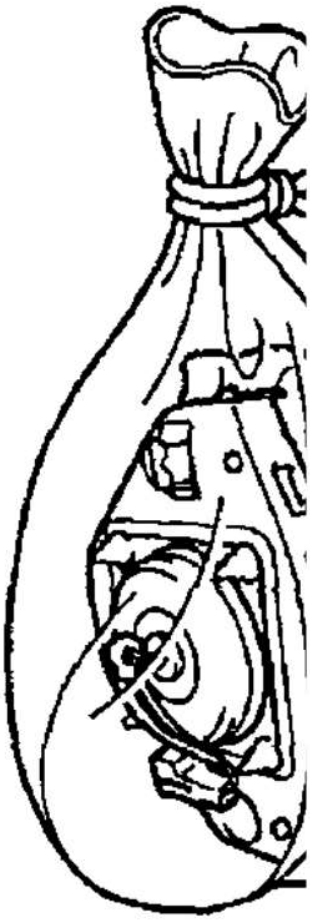
7. Dispose of the steering wheel pad (with airbag).

CAUTION:

- **The steering wheel pad is very hot when the airbag is deployed. I for at least 30 minutes after deployment.**
- **Use gloves and safety glasses when handling a steering wheel pa deployed airbag.**
- **Always wash your hands with water after completing the operatic**
- **Do not apply water to a steering wheel pad with the deployed airt**
  1. **Remove the steering wheel pad from the disc wheel.**
  2. **Place the steering wheel pad in a vinyl bag, tie the end tight of it in the same way as other general parts disposal.**

cardiagn.com

2005 Toyota RAV4
2005 RESTRAINTS Supplemental Restraint System - RAV4



cardiagn.com

Fig. 65: Disposing Of Steering Wheel Pad - With Airbag (1 O
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

8. **DEPLOYMENT WHEN DISPOSING OF STEERING WHEEL PAD WITH AIRBAG DEPLOYED IN COLLISION**

Dispose of the steering wheel pad (with airbag).

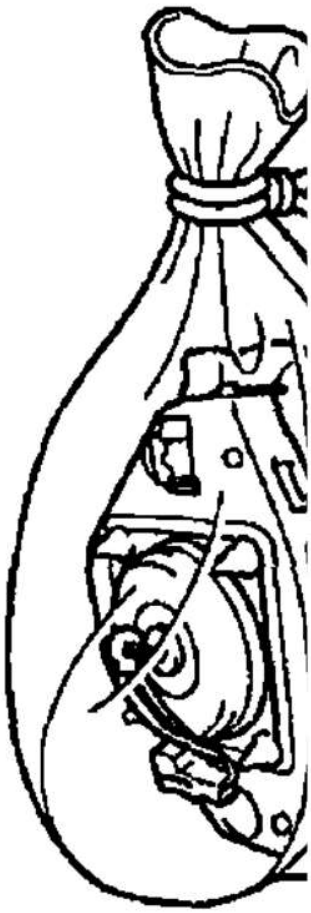
CAUTION:

- **The steering wheel pad is very hot when the airbag is deployed. I for at least 30 minutes after deployment.**

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

- **When moving a vehicle for scrapping which has a steering wheel deployed airbag, use gloves and safety glasses.**
- **Use gloves and safety glasses when handling a steering wheel pa deployed airbag.**
- **Always wash your hands with water after completing the operatic**
- **Do not apply water to a steering wheel pad with deployed airbag.**
  1. **Remove the steering wheel pad from the steering wheel (se**
  2. **Place the steering wheel pad in a vinyl bag, tie the end tight of it in the same way as other general parts disposal.**



Y

G02640732

cardiagn.com

2005 Toyota RAV4
2005 RESTRAINTS Supplemental Restraint System - RAV4

Fig. 66: Disposing Of Steering Wheel Pad - With Airbag (2 O
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REPLACEMENT

REPLACEMENT REQUIREMENTS

In the following cases, replace the steering wheel pad, steering wheel or spiral cable.

REPLACEMENT REQUIREMENTS CASES DESCRIPTION

Case	Part to be replaced
If the airbag has been deployed.	Steering wheel pad
If the steering wheel pad has been found to be faulty in troubleshooting.	Steering wheel pad
If the spiral cable has been found to be faulty in troubleshooting.	Spiral cable
If the steering wheel pad has been found to be faulty during checking (see **INSPECTION**).	Steering wheel pad
If the steering wheel has been found to be faulty during checking (see **INSPECTION**).	Steering wheel
If the spiral cable has been found to be faulty during checking (see **INSPECTION**).	Spiral cable
If the steering wheel pad has been dropped.	Steering wheel pad

CAUTION: For replacement of the steering wheel pad, see REMOVAL and INSTALLATION . Be sure to follow the correct procedure.

INSTALLATION

HINT:

For steps 1 to 4, return to **REMOVAL** .

1. **INSTALL SPIRAL CABLE**
2. **INSTALL UPPER AND LOWER COLUMN COVERS**
3. **INSTALL STEERING WHEEL**
4. **INSTALL STEERING WHEEL PAD**

FRONT PASSENGER AIRBAG ASSEMBLY

COMPONENTS

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

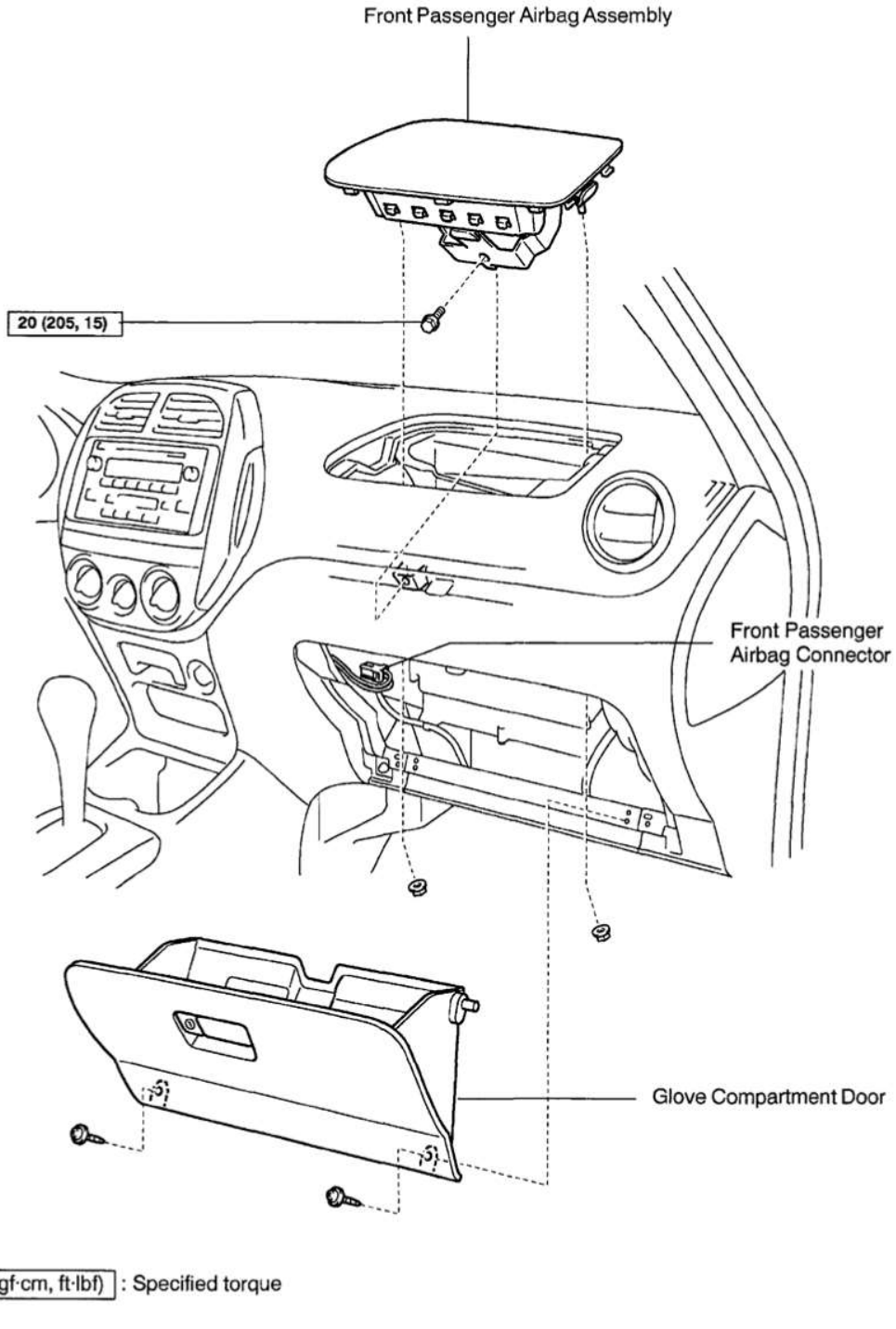


Fig. 67: Identifying Front Passenger Airbag Assembly Components & Torque Specifications
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

NOTE:

- **If the wiring connector of the SRS is disconnected and the ignition switch is in the ON position, DTCs will be recorded.**
- **Never use the airbag parts from another vehicle. When replacing parts, use new parts.**

1. **REMOVE GLOVE COMPARTMENT DOOR**
2. **REMOVE FRONT PASSENGER AIRBAG ASSEMBLY**
   a. Disconnect the airbag connector.

NOTE: **When handling the airbag connector, take care not to damage the airbag wire harness.**

   b. Disconnect the airbag wire harness clamp.

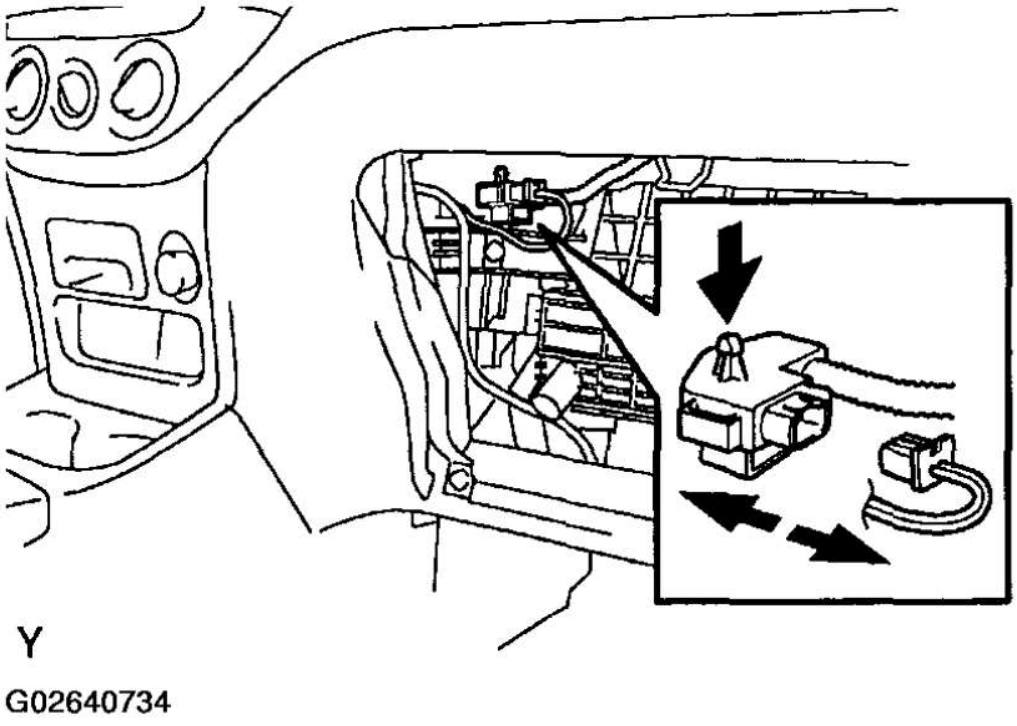


Fig. 68: Disconnecting Airbag Wire Harness Clamp
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

   c. Remove the bolt, 2 nuts and front passenger airbag assembly.

cardiagn.com

2005 Toyota RAV4
2005 RESTRAINTS Supplemental Restraint System - RAV4

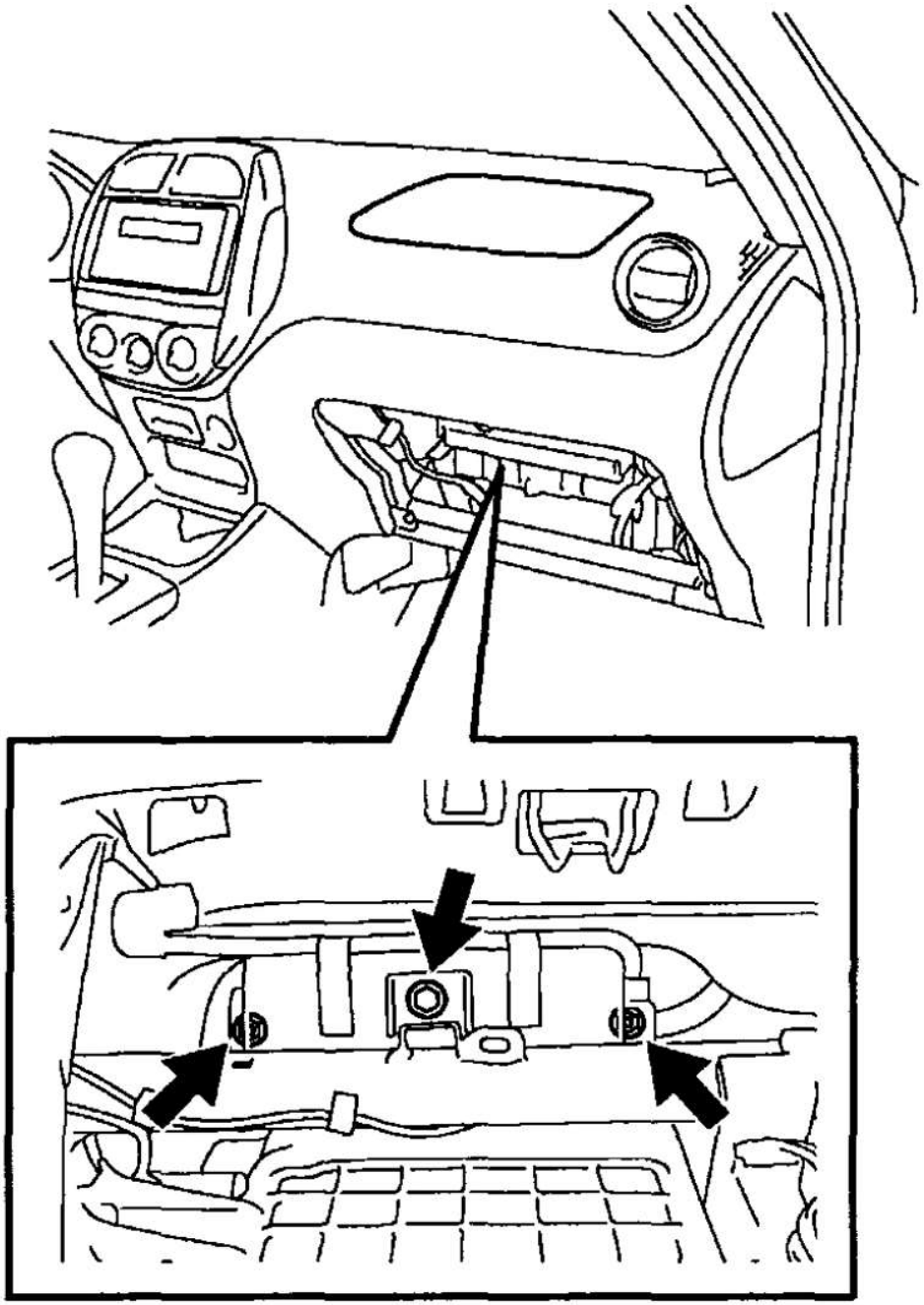
CAUTION:

- **Do not store the front passenger airbag assembly with the airbag deployment side facing downward.**
- **Never disassemble the front passenger airbag assembly.**

NOTE: **When removing the front passenger airbag assembly, take care not to damage the wire harness.**

cardiagn.com

2005 Toyota RAV4
2005 RESTRAINTS Supplemental Restraint System - RAV4



Y

G02640735

Fig. 69: Removing Front Passenger Airbag Assembly

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSPECTION

1. **Vehicles not involved in a collision: INSPECT SUPPLEMENTAL RESTRAINT SYSTEM**
   a. Check the diagnostic system (see **PRE-CHECK**).
   b. Do a visual check which includes the following item with the front passenger airbag assembly installed in the vehicle.

      Check cuts, minute cracks or marked discoloration on the front passenger airbag assembly and instrument panel.

2. **Vehicles involved in a collision with airbag not deployed: INSPECT SUPPLEMENTAL RESTRAINT SYSTEM** .
   a. Check the diagnostic system (see **PRE-CHECK**).

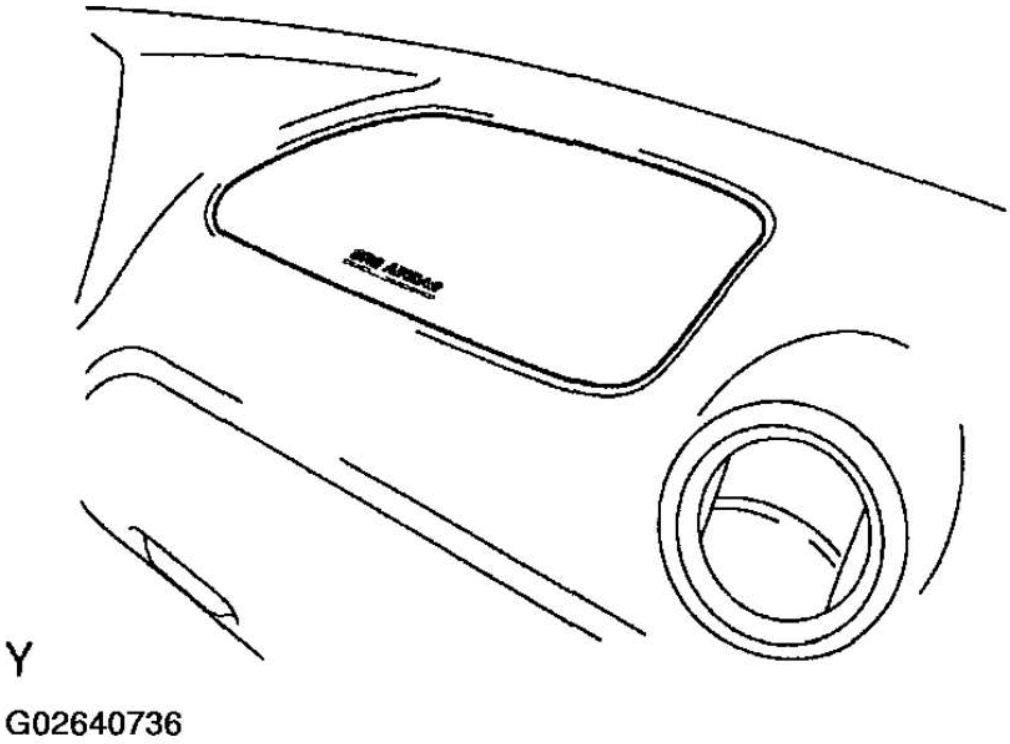


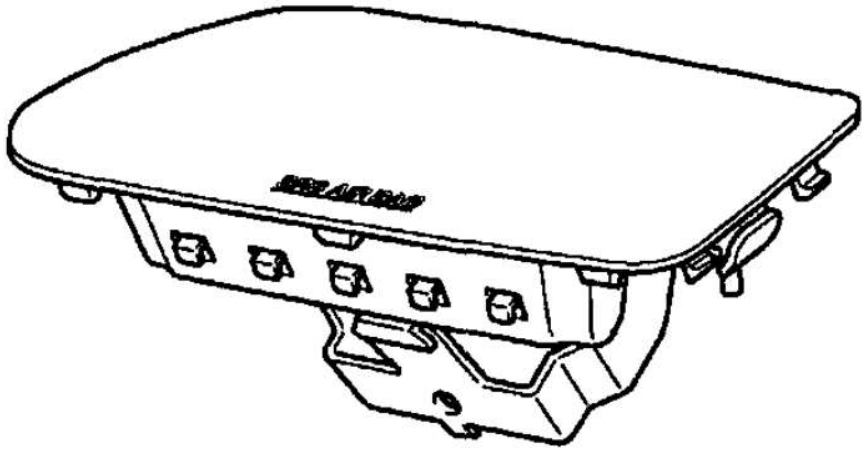
Fig. 70: Identifying Front Passenger Airbag Assembly And Instrument Panel
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

b. Do a visual check which includes the following items with the front passenger airbag assembly removed from the vehicle.
   - Check cuts, minute cracks or marked discoloration on the front passenger airbag assembly.
   - Check cuts and cracks in wire harness, and for chipping in connectors.



Y

G02640737

Fig. 71: Visually Checking Front Passenger Airbag Assembly For Damage
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- Check the deformation or cracks on the instrument panel and instrument panel reinforcement.

CAUTION: For removal and installation of the front passenger airbag assembly, see REMOVAL and INSTALLATION, and be sure to follow the correct procedure.

HINT:

If the instrument panel or instrument panel reinforcement is deformed or cracked, never repair it. Always replace it with a new one.

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

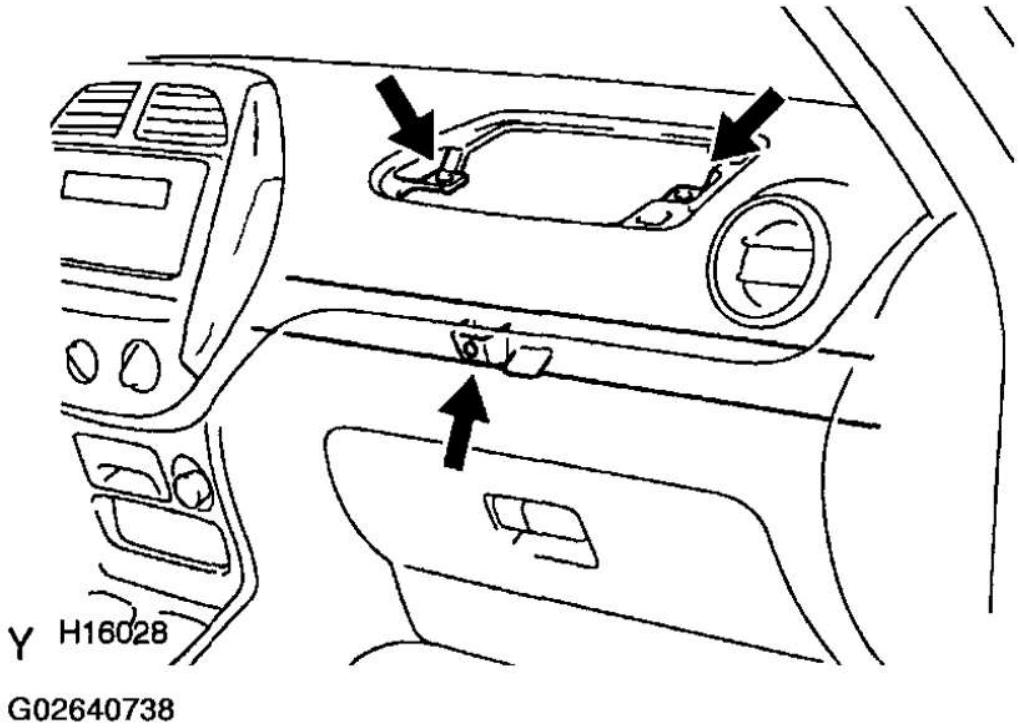


Fig. 72: Locating Instrument Panel And Instrument Panel Reinforcements (1 Of 2)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

3. **Vehicles involved in a collision with airbag deployed: INSPECT SUPPLEMENTAL RESTRAINT SYSTEM**
   a. Check the diagnostic system (see **PRE-CHECK**).
   b. Do a visual check which includes the following items with the front passenger airbag assembly removed from the vehicle.
      - Check the deformation or cracks on the instrument panel and instrument panel reinforcement.
      - Check the damage on the connector and wire harness.

CAUTION: For removal and installation of the front passenger airbag assembly, see REMOVAL and INSTALLATION, and be sure to follow the correct procedure.

HINT:

If the instrument panel or instrument panel reinforcement is deformed or cracked, never repair it. Always replace it with a new one.

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

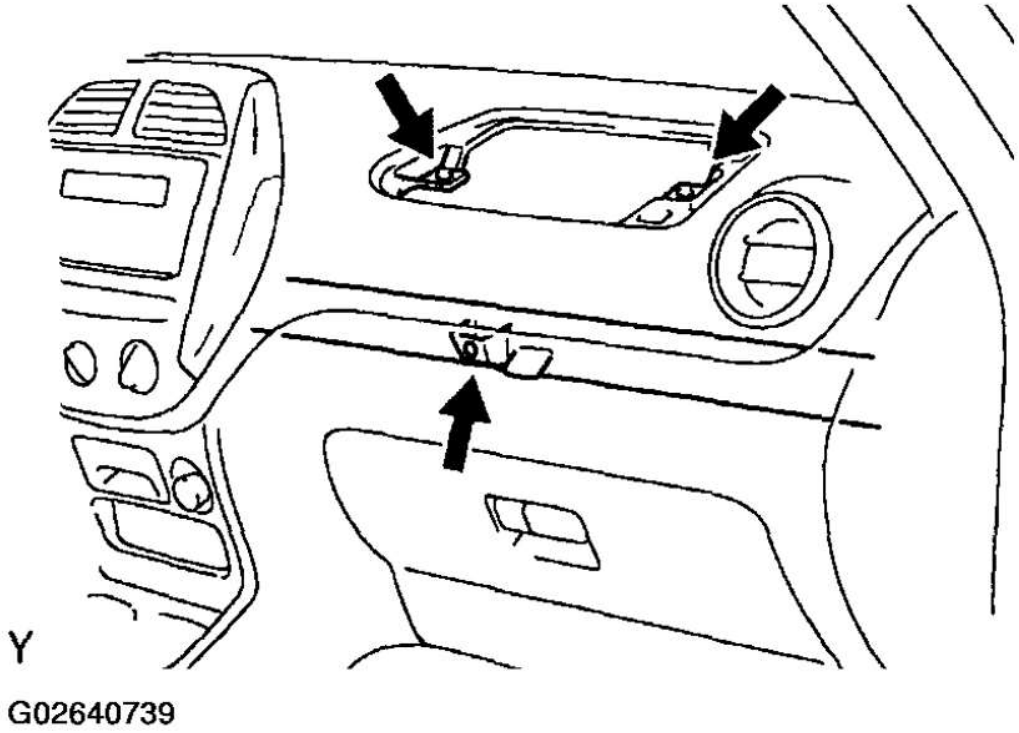


Fig. 73: Locating Instrument Panel And Instrument Panel Reinforcements(2 Of 2)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

cardiagn.com

DISPOSAL

HINT:

When scrapping vehicle equipped with an SRS or disposing of a front passenger airbag assembly, always first deploy the airbag in accordance with the procedure described below. If any abnormality occurs with the airbag deployment, contact the SERVICE DEPT. of TOYOTA MOTOR, U.S.A., INC.

CAUTION:

- **Never dispose of a front passenger airbag assembly which has an undeployed airbag.**
- **The airbag produces a sizeable exploding sound when it deploys. Perform the operation out-of-doors and where it will not disturb nearby residents.**
- **When deploying the airbag, always use the specified SST (SRS Airbag Deployment Tool). Perform the operation in a place away from electric noise.**

2005 Toyota RAV4
2005 RESTRAINTS Supplemental Restraint System - RAV4

SST 09082-00700

- **When deploying an airbag, perform the operation at least 10 m (33 ft) away from the front passenger airbag assembly.**
- **The front passenger airbag assembly is very hot when the airbag is deployed. Do not touch it for at least 30 minutes after deployment.**
- **Use gloves and safety glasses when handling a front passenger airbag assembly with the deployed airbag.**
- **Always wash your hands with water after completing the operation.**
- **Do not apply water to a front passenger airbag assembly with the deployed airbag.**

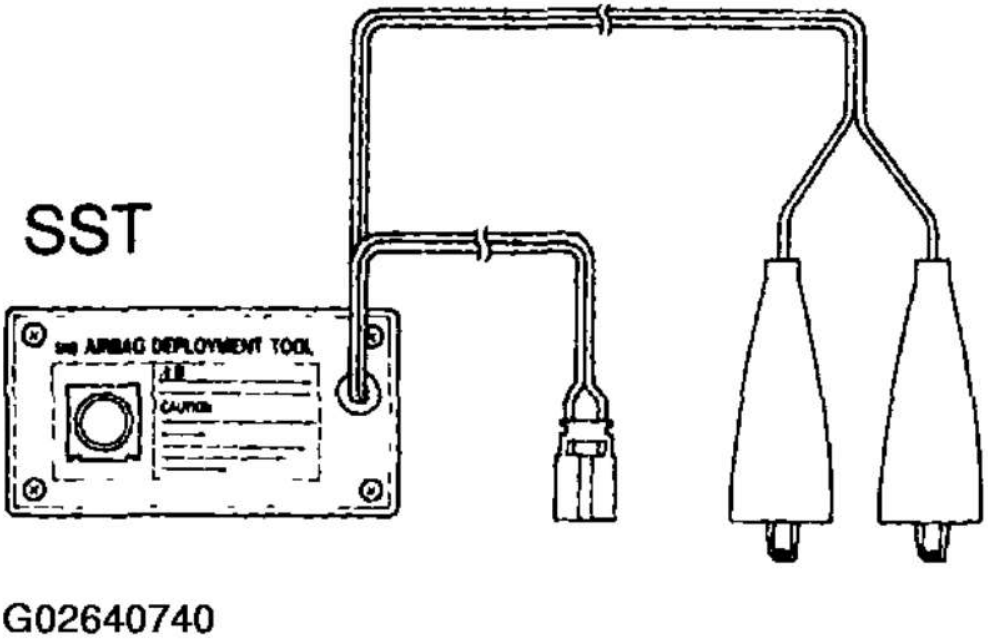


Fig. 74: Identifying SRS Airbag Deployment Tool SST
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

1. **DISPOSE OF FRONT PASSENGER AIRBAG ASSEMBLY (DEPLOYMENT METHOD WHEN SCRAPPING VEHICLE)**

   HINT:

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

Prepare a battery as the power source to deploy the airbag.

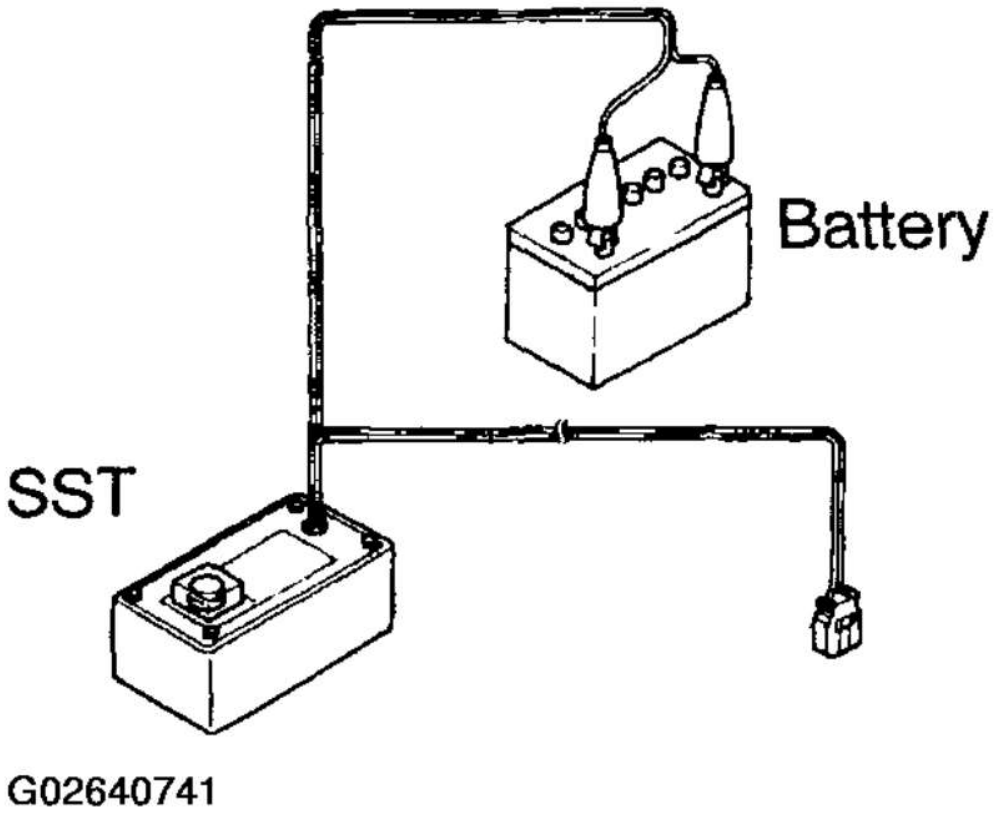


Fig. 75: Checking Functioning Of SST
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

a. Check functioning of the SST (see step under **DISPOSAL**).

   SST 09082-00700

b. Remove the glove compartment door.
c. Disconnect the airbag connector.

NOTE: When handling the airbag connector, take care not to damage the airbag wire harness.

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

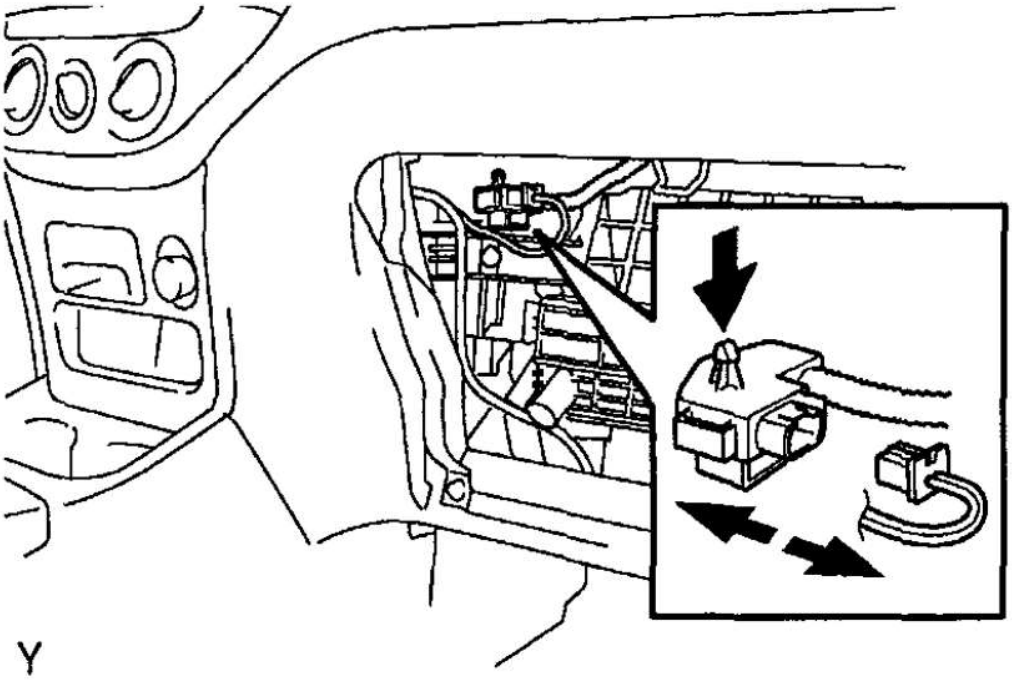


Fig. 76: Disconnecting Airbag Connector
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

d. Install the SST.
   1. Connect the connectors of the 2 SSTs to the front passenger airbag assembly connector.

      SST 09082-00700, 09082-00760 (Single Inflator), 09082-00780 (Dual Inflator)

      NOTE: To avoid damaging the SST connector and wire harness, do not lock the secondary lock of the twin lock.

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

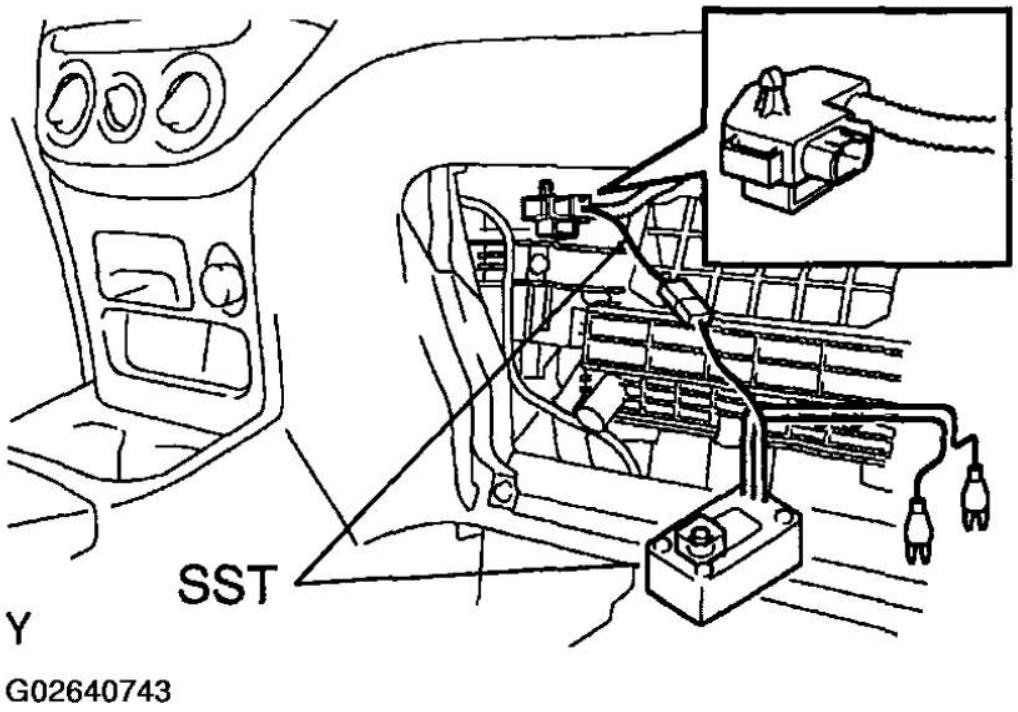


Fig. 77: Connecting Connectors Of SST To Front Passenger Airbag Assembly Connector
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. Move the SSTs at least 10 m (33 ft) away from the front of the vehicle.
3. Close all the doors and windows of the vehicle.

HINT:

Do not close the windows fully. Allow clearance for inserting the SST wire harness.

NOTE: Take care not to damage the SST wire harness.

4. Connect the SST red clip to the battery positive (+) terminal and the black clip to the battery negative (-) terminal.

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

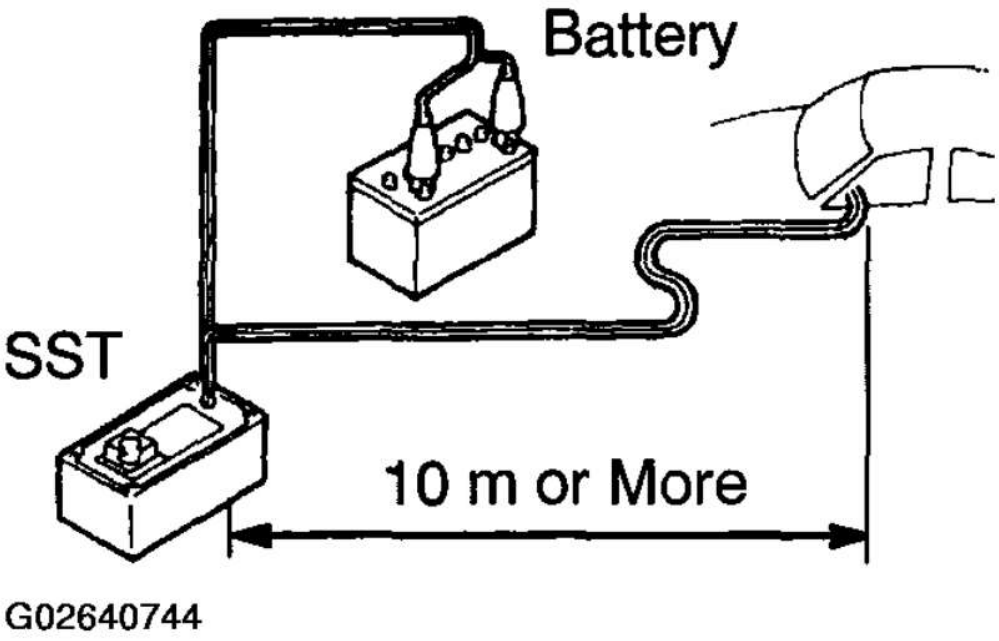


Fig. 78: Moving SSTs At Least 10 Meters Away From Front Of Vehicle
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

e. Deploy the airbag.
   1. Check that no one is inside the vehicle or within 10 m (33 ft) area around the vehicle.
   2. Press the SST activation switch and deploy the airbag.

   HINT:

   The airbag deploys simultaneously with the LED of the SST activation switch illuminating.

f. Dispose of the front passenger airbag assembly.

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

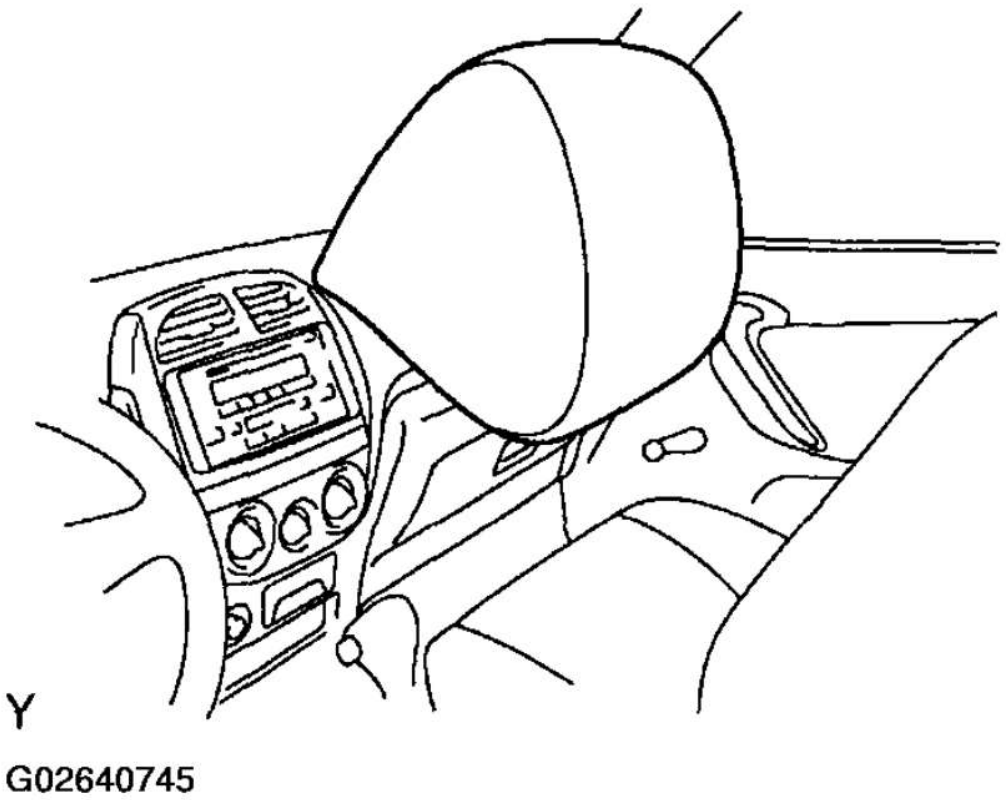


Fig. 79: Identifying Deployed Airbag
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

CAUTION:

- **The front passenger airbag assembly is very hot when the airbag is deployed. Do not touch it for at least 30 minutes after deployment.**
- **Use gloves and safety glasses when handling the front passenger airbag assembly with the deployed airbag.**
- **Always wash your hands with water after completing the operation.**
- **Do not apply water to the front passenger airbag assembly with the deployed airbag.**
- **When scrapping a vehicle, deploy the airbag and scrap the vehicle with the front passenger airbag assembly still installed.**
- **When moving a vehicle for scrapping which has the front**

cardiagn.com

passenger airbag assembly with the deployed airbag, use gloves and safety glasses.

2. **DISPOSE OF FRONT PASSENGER AIRBAG ASSEMBLY (DEPLOYMENT METHOD WHEN DISPOSING OF AIRBAG ASSEMBLY)**

NOTE:

- **When disposing of the front passenger airbag assembly only, never use the customer's vehicle to deploy the airbag.**
- **Be sure to follow the procedure given below when deploying the airbag.**

HINT:

Have a battery ready as the power source to deploy the airbag.

a. Check functioning of the SST (see step under **DISPOSAL**).

SST 09082-00700

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

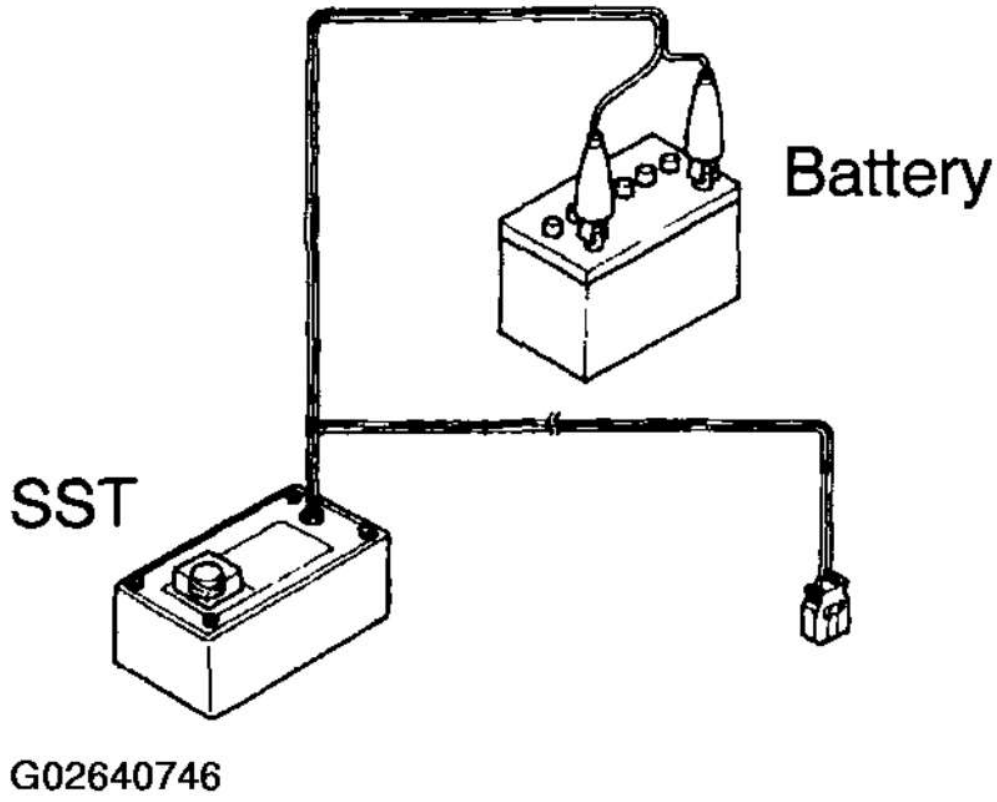


Fig. 80: Checking Functioning Of SST
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

b. Remove the front passenger airbag assembly (see **REMOVAL**).

CAUTION:
- **When removing the front passenger airbag assembly, work must be started at least 90 seconds after the ignition switch is turned to the LOCK position and the negative (-) terminal cable is disconnected from the battery.**
- **When storing the front passenger airbag assembly, keep the upper surface of the airbag deployment side facing up.**

c. Fix the front passenger airbag assembly.
   1. Using a service-purpose wire harness, tie down the front passenger airbag assembly to a tire.

Wire harness: Stripped wire harness section 1.25 mm^2 or more (0.0019 $in.^2$ or more)

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

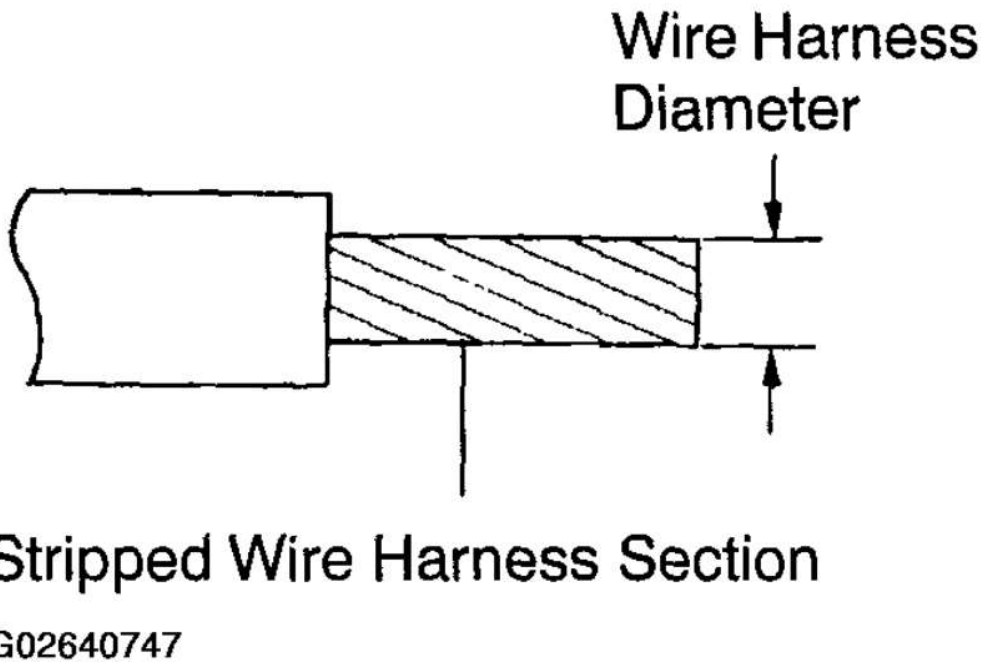


Fig. 81: Stripping Wire Harness Section
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

HINT:

To calculate the square of the stripped wire harness section:

Square = 3.14 x (Diameter)^2 / 4

CAUTION: If a very thin wire harness or some other thing is used to tie down the front passenger airbag assembly, it may be cut by the shock when the airbag is deployed. This is highly dangerous. Always use a wire harness for vehicle use which is at least 1.25 mm^2 (0.0019 in^2 .).

2. Install the 2 mounting nuts to the front passenger airbag assembly.

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

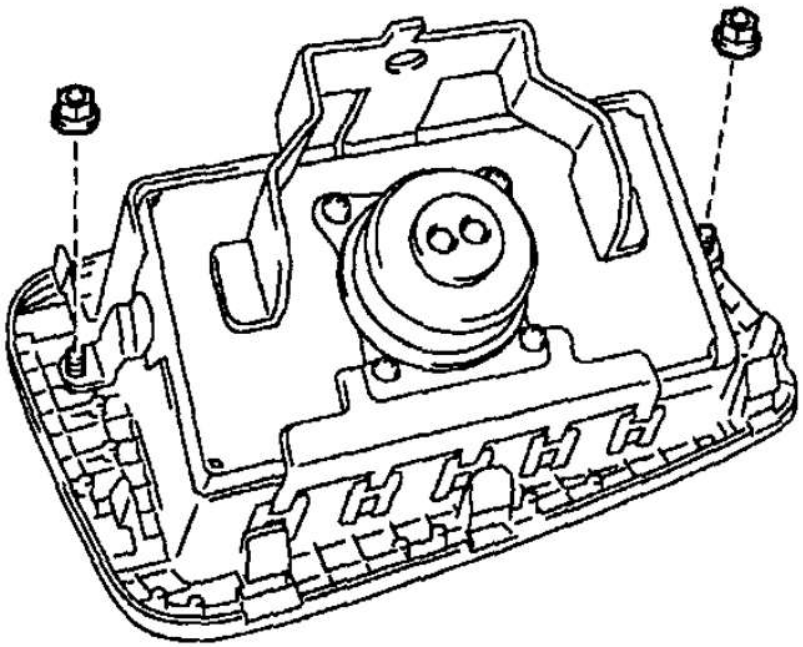


Fig. 82: Installing Mounting Nuts To Front Passenger Airbag Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

3. Wind the wire harness around the bolts, and pass the wire harness, through the installation holes.

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

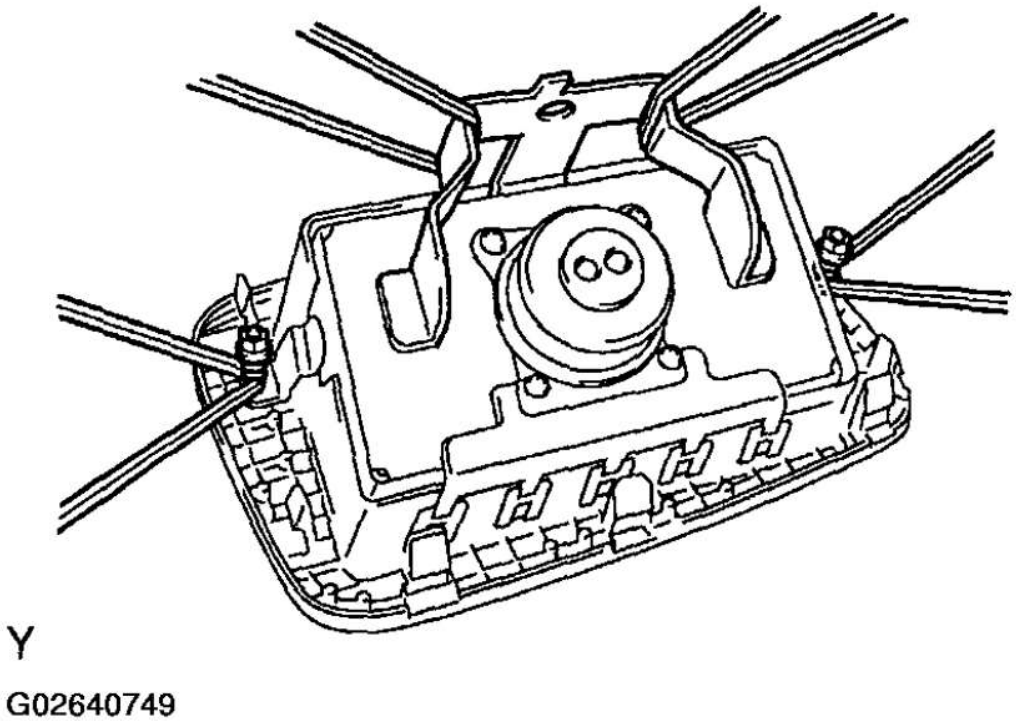


Fig. 83: Winding Wire Harness Around Bolt Studs Frame
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

4. Position the front passenger airbag assembly inside a tire with the airbag deployment side facing inside.

Tire size: Must exceed the following dimensions-Width: 185 mm (7.28 in.)

Inner diameter: 360 mm (14.17 in.)

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

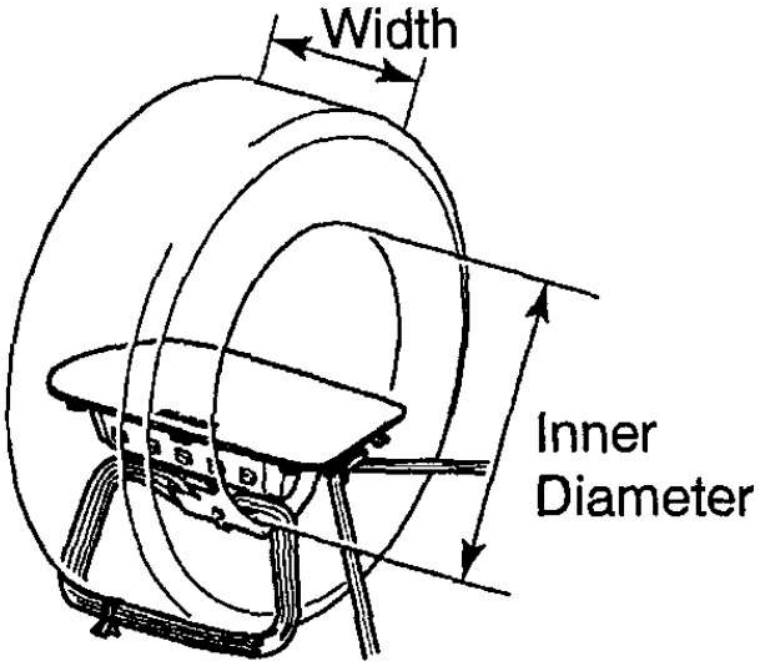


Fig. 84: Positioning Front Passenger Airbag Assembly Inside Tire With Airbag Deployment Side Facing Inside
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

CAUTION:
- **Make sure that the wire harness is tight. It is very dangerous if a loose wire harness causes the front passenger airbag assembly to be free due to the shock from the airbag deployment.**
- **Always tie down the front passenger airbag assembly with the airbag deployment side facing inside.**

NOTE: **The tire will be marked by the airbag deployment. When disposing of the airbag, use a redundant tire.**

d. Place tires.
   1. Place at least 2 tires under the tire to which the front passenger airbag assembly is tied.
   2. Place at least 2 tires over the tire to which the front passenger airbag assembly is tied. The top tire should have the wheel installed.

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

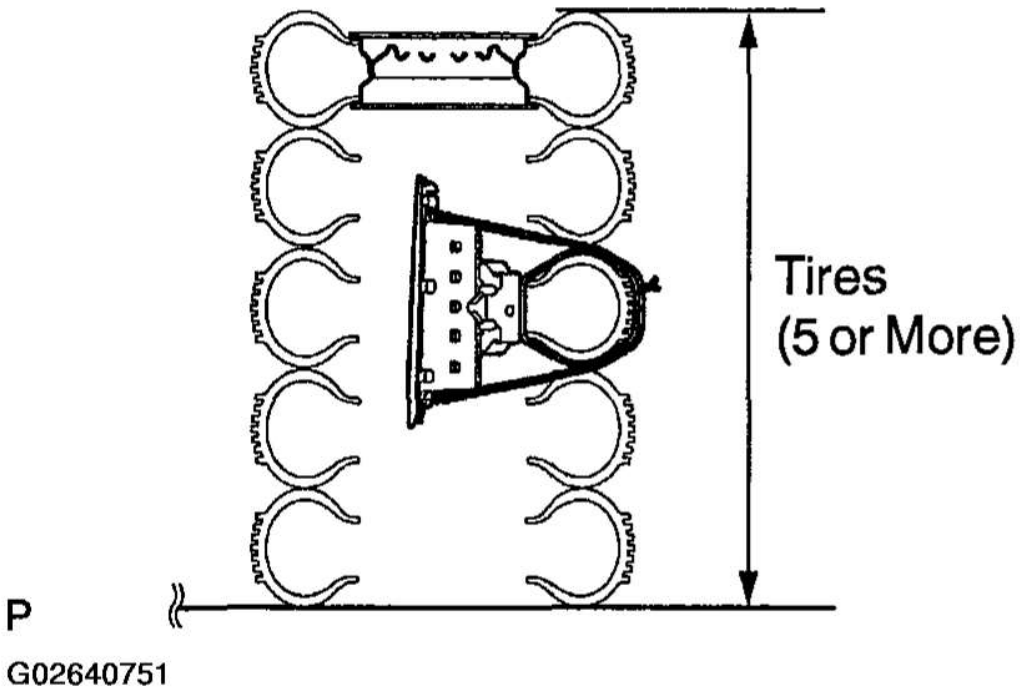


Fig. 85: Placing Secured Passenger Airbag Assembly Inside Tires (As Shown)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

3. Tie the tires together with the 2 wire harnesses.

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

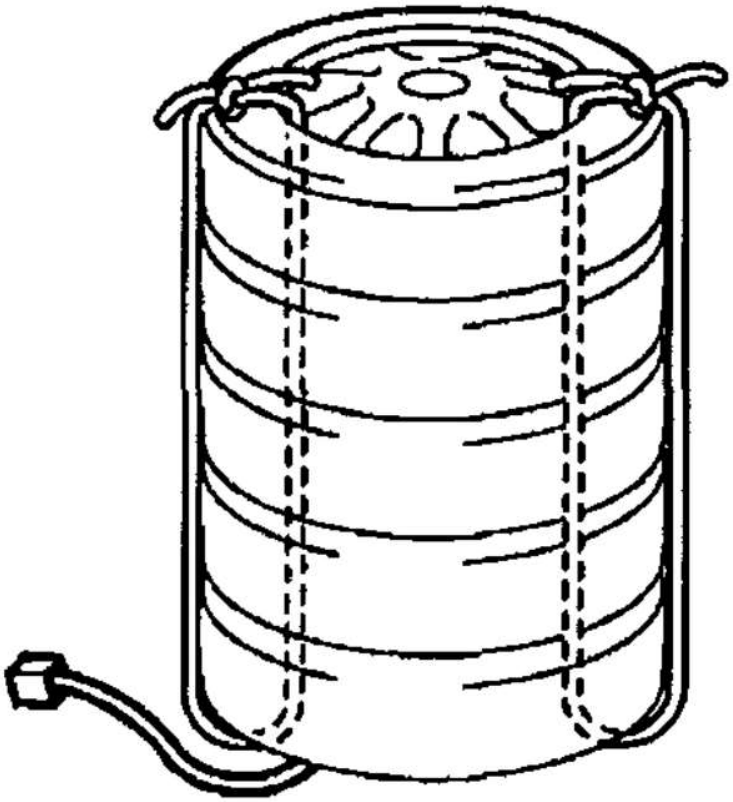


Fig. 86: Tie Tires Together With Wire Harnesses
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

CAUTION: Make sure that the wire harness is tight. It is very dangerous if loose wire harnesses cause the tires to be free due to the shock from the airbag deployment.

HINT:

Place the SST connector and wire harness inside tires. Provide at least 1 m (3 ft) of slack for the wire harness.

e. Install the SST.

cardiagn.com

Connect the connectors of the 2 SSTs to the front passenger airbag assembly connector.

SST 09082-00700, 09082-00802

NOTE: To avoid damaging the SST connector and wire harness, do not lock the secondary lock of the twin lock. Also, remove some slack for the SST wire harness inside the tires.

f. Deploy the airbag.

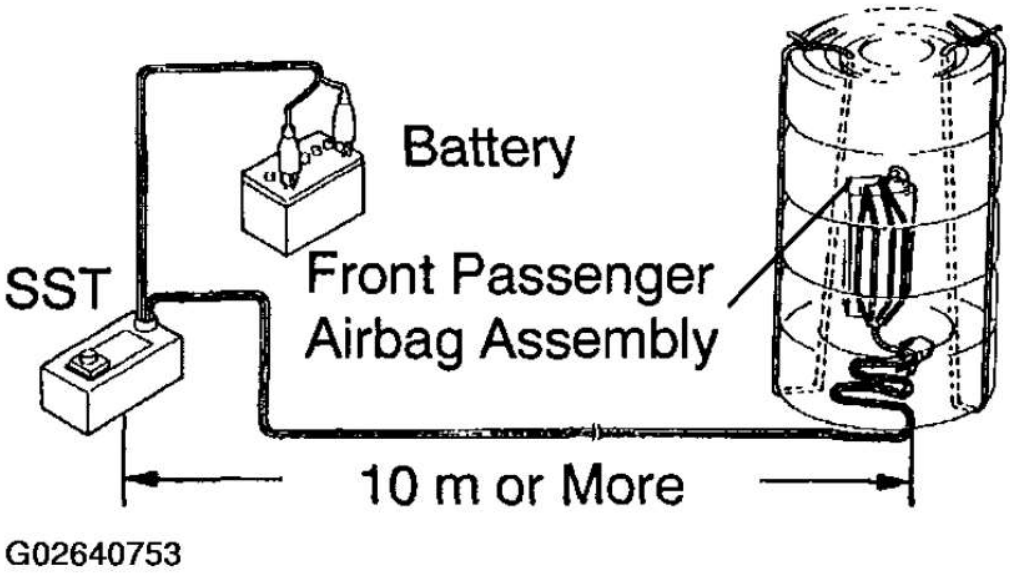


Fig. 87: Connecting Connectors Of SSTs To Front Passenger Airbag Assembly Connector
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

1. Connect the SST red clip to the battery positive (+) terminal and the black clip to the battery negative (-) terminal.
2. Check that no one is within 10 m (33 ft) area around the tire which the front passenger airbag assembly is tied to.
3. Press the SST activation switch and deploy the airbag.

HINT:

The airbag deploys simultaneously with the LED of the SST activation switch illuminating.

g. Dispose of the front passenger airbag assembly.

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

CAUTION:

- **The front passenger airbag assembly is very hot when the a Do not touch it for at least 30 minutes after deployment.**
- **Use gloves and safety glasses when handling a front passe assembly with the deployed airbag.**
- **Always wash your hands with water after completing the op**
- **Do not apply water to a front passenger airbag assembly wi airbag.**

1. **Remove the front passenger airbag assembly from the**
2. **Place the front passenger airbag assembly in a vinyl b tightly and dispose of it in the same way as other parts**



Y

G02640754

cardiagn.com

2005 Toyota RAV4
2005 RESTRAINTS Supplemental Restraint System - RAV4

Fig. 88: Disposing Of Front Passenger Airbag Assemb
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

3. **DEPLOYMENT WHEN DISPOSING OF FRONT PASSENGER AIRBAG ASSEMBLY WITH AIRBAG DEPLOYED IN COLLISION**

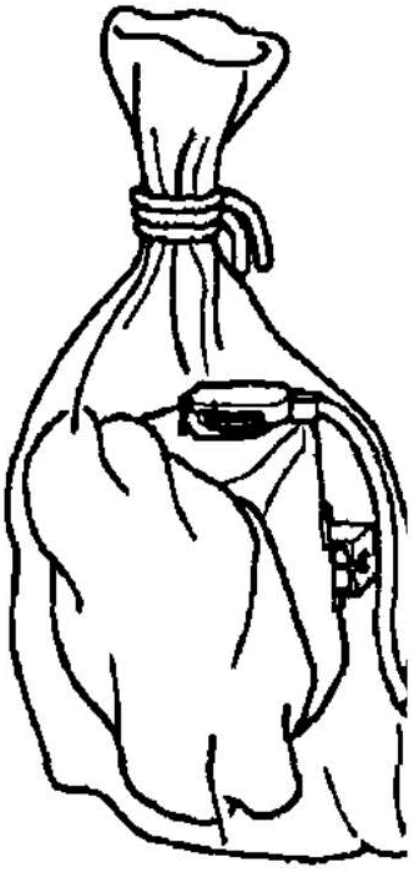
Dispose of the front passenger airbag assembly.

CAUTION:

- **The front passenger airbag assembly is very hot when the airbag deployed. Do not touch it for at least 30 minutes after deploymen**
- **Use gloves and safety glasses when handling a front passenger a assembly with the deployed airbag.**
- **Always wash your hands with water after completing the operatic**
- **Do not apply water to a front passenger airbag assembly with the deployed airbag.**

cardiagn.com

2005 Toyota RAV4
2005 RESTRAINTS Supplemental Restraint System - RAV4



cardiagn.com

Fig. 89: Disposing Of Front Passenger Airbag Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

1. Remove the front passenger airbag assembly (see **REMOVAL**).
2. Place the front passenger airbag assembly in a vinyl bag, tie the end tightly and dispose of it in the same way as other general parts disposal.

REPLACEMENT

Replacement Requirements

In the following cases, replace the front passenger airbag assembly, instrument panel or instrument panel

reinforcement.

Case	Part to be replaced
If the airbag has been deployed.	Front passenger airbag assembly
If the front passenger airbag assembly has been found to be faulty in trouble-shooting.	Front passenger airbag assembly
If the front passenger airbag assembly has been found to be faulty during checking.	Front passenger airbag assembly
If the instrument panel has been found to be faulty during checking.	Instrument panel
If the instrument panel reinforcement has been found to be faulty during checking.	Instrument panel reinforcement
If the front passenger airbag assembly has been dropped.	Front passenger airbag assembly

G02640756

Fig. 90: Replacement Requirement Description Table
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

CAUTION: For replacement of the front passenger airbag assembly, see REMOVAL and INSTALLATION. Be sure to follow the correct procedure.

INSTALLATION

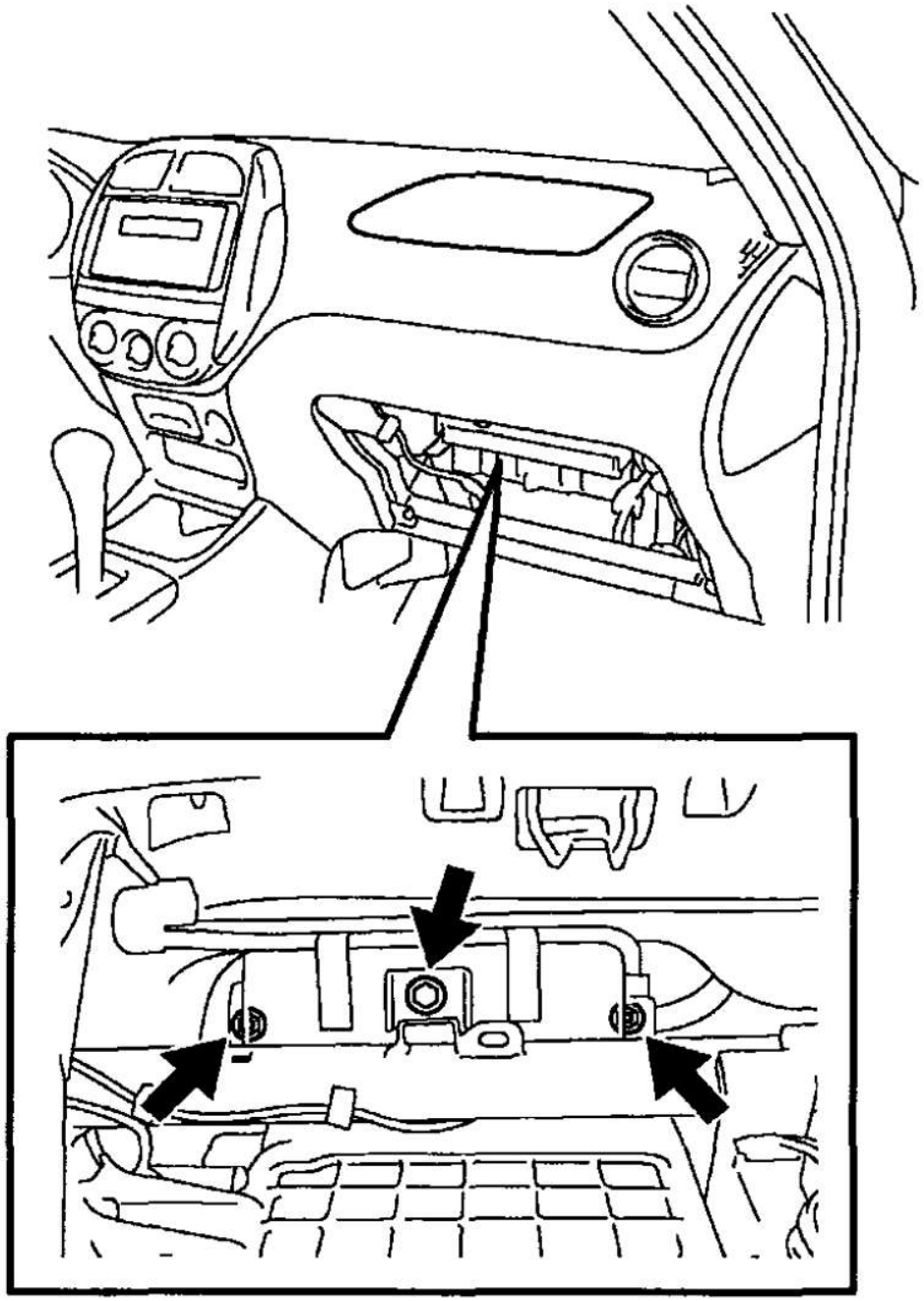
NOTE: Never use airbag parts from another vehicle. When replacing parts, use new parts.

1. **INSTALL FRONT PASSENGER AIRBAG ASSEMBLY**
   a. Install the front passenger airbag assembly with the 2 nuts.
   b. Install the bolt.

   Torque: 20 N.m (205 kgf.cm, 15 ft.lbf)

cardiagn.com

2005 Toyota RAV4
2005 RESTRAINTS Supplemental Restraint System - RAV4



Y

G02640757

Fig. 91: Installing Front Passenger Airbag Assembly

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

CAUTION:

- **When installing the front passenger airbag assembly, take care that the wiring does not interfere with other parts and is not pinched between other parts.**
- **Make sure that no foreign objects are trapped between the airbag and the module.**

NOTE: **If the front passenger airbag assembly has been dropped, or there are cracks, dents or other defects in the case or connector, replace the front passenger airbag assembly with a new one.**

c. Connect the airbag wire harness clamp.
d. Connect the airbag connector.

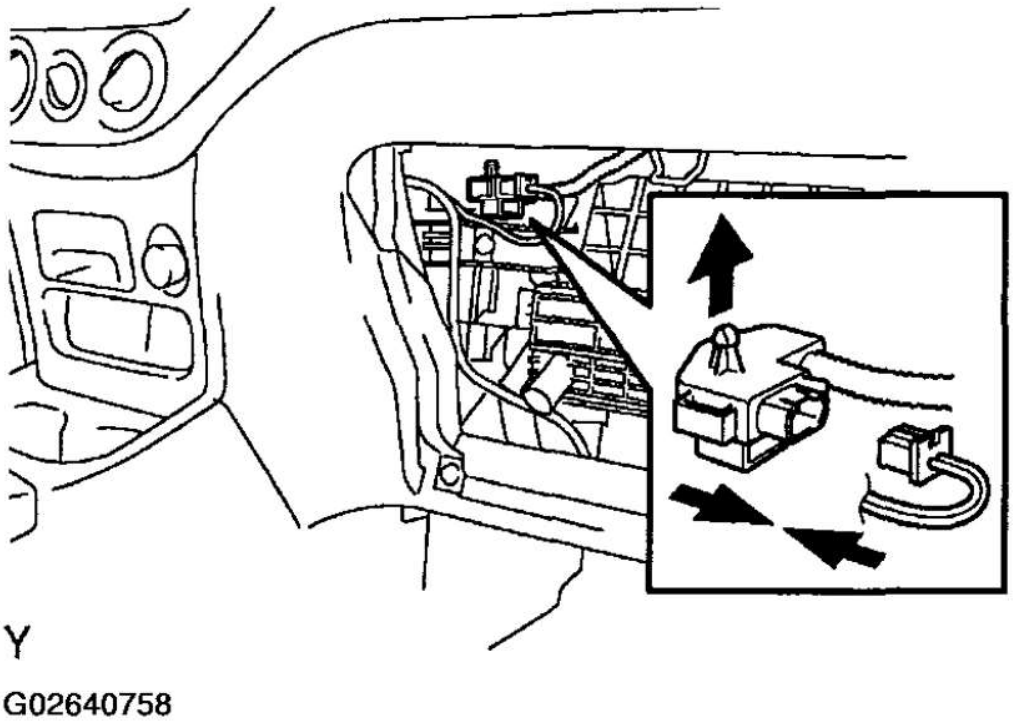


Fig. 92: Routing Airbag Wire Harness & Connect Airbag Connector
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. **INSTALL GLOVE COMPARTMENT DOOR**

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

SIDE AIRBAG ASSEMBLY

COMPONENTS

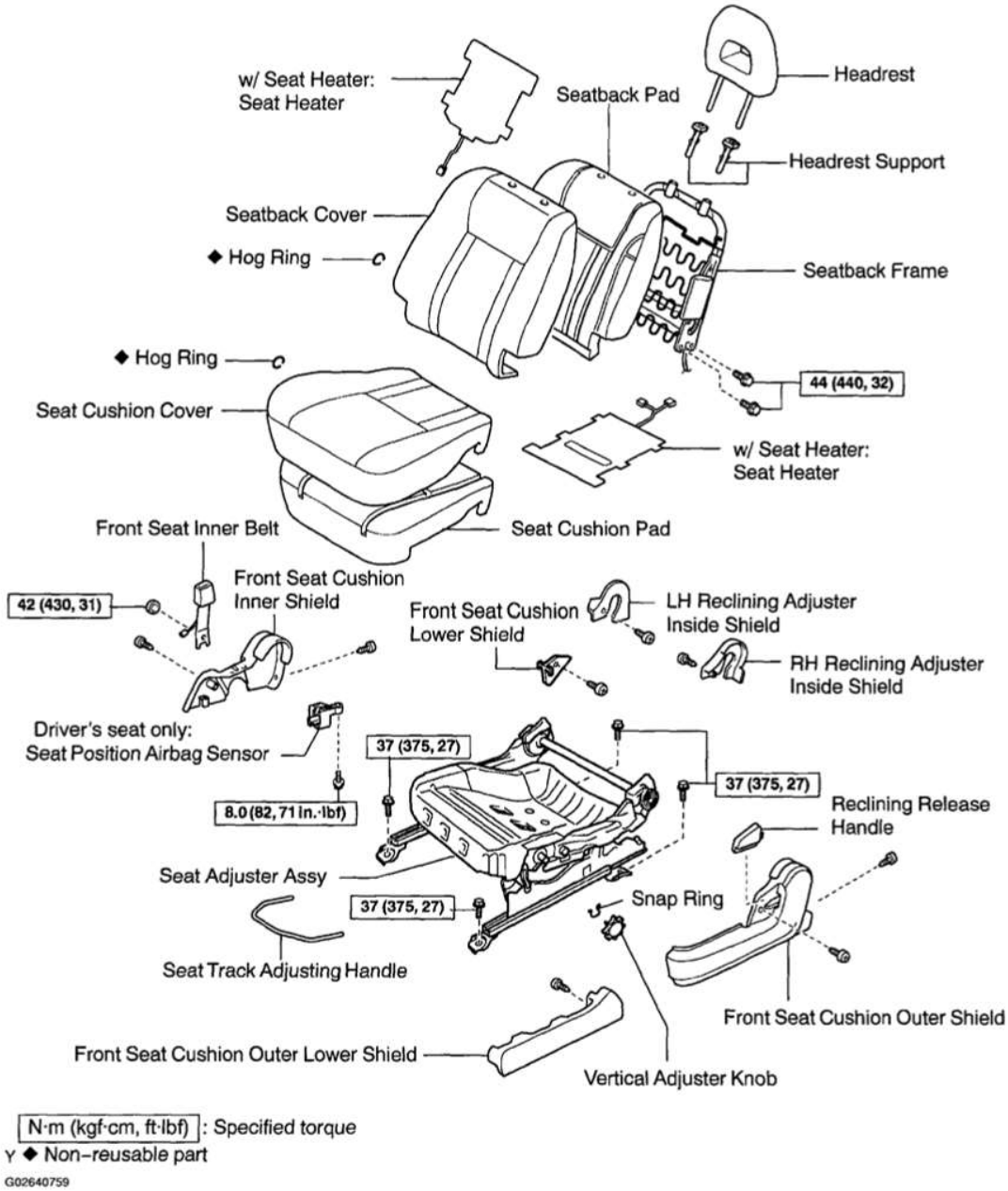


Fig. 93: Identifying Side Airbag Assembly Components & Torque Specifications
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

cardiagn.com

2005 Toyota RAV4
2005 RESTRAINTS Supplemental Restraint System - RAV4

NOTE:

- **If the wiring connector of the SRS is disconnected and the ignition switch is in the ON position, DTCs will be recorded.**
- **Never use the airbag parts from another vehicle. When replacing parts, use new parts.**

HINT:

- For steps 1 to 2, return to **REMOVAL** .
- For steps 3 to 11, return to **DISASSEMBLY** .

1. **REMOVE FRONT SEAT OUTER BELT ANCHOR**
2. **REMOVE FRONT SEAT**

NOTE: **When handling the airbag connector, take care not to damage the airbag wire harness.**

3. **REMOVE POWER SEAT SWITCH KNOBS**
4. **REMOVE FRONT SEAT CUSHION SHIELD**
5. **REMOVE FRONT SEAT CUSHION INNER SHIELD**
6. **REMOVE FRONT SEATBACK BOARD**
7. **REMOVE SEATBACK ASSEMBLY**
8. **REMOVE HEADREST**
9. **REMOVE HEADREST SUPPORTS**
10. **REMOVE SEATBACK COVER**
11. **REMOVE SEATBACK FRAME**

NOTE: **Do not damage the side airbag assembly.**

INSPECTION

1. **Vehicles not involved in a collision: INSPECT SUPPLEMENTAL RESTRAINT SYSTEM**
   a. Check the diagnostic system (see **PRE-CHECK**).
   b. Visually check the following items with the seatback assembly installed in the vehicle.

      Check that there are no cuts or frayed in the seams and the outside of the seatback cover.

2. **Vehicles involved in a collision and airbag not deployed: INSPECT SUPPLEMENTAL RESTRAINT SYSTEM**
   a. Check the diagnostic system (see **PRE-CHECK**).
   b. Visually check the following items with the seatback assembly removed from the vehicle.
      - Check for cuts and cracks, or marked discoloration on the side airbag assembly.

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

- Check for cuts and cracks in the wire harness, and chips in the connectors.

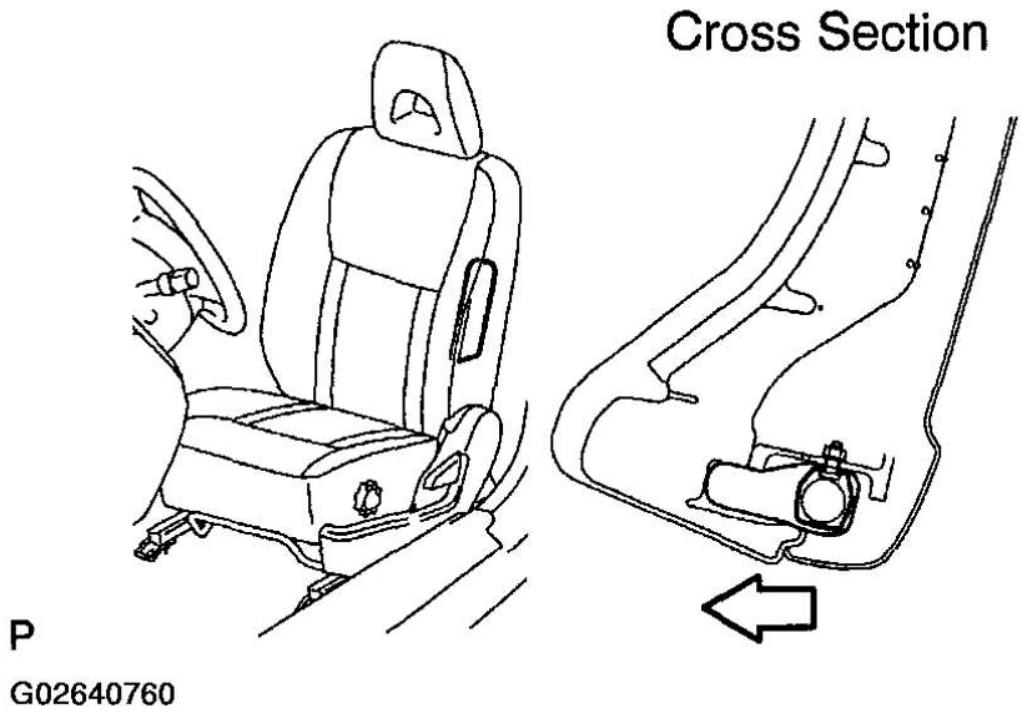


Fig. 94: Checking For Cuts And Cracks, Or Marked Discoloration On Side Airbag Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

CAUTION: For removal and installation of the seatback assembly, see REMOVAL and INSTALLATION . Be sure to follow the correct procedure.

3. **Vehicles involved in a collision and airbag deployed: INSPECT SUPPLEMENTAL RESTRAINT SYSTEM**
   a. Check the diagnostic system (see **PRE-CHECK**).
   b. Visually check the following items with the seatback assembly removed from the vehicle.
      - Check the seatback installation part of the seat adjuster.
      - Check for damage to the connector and wire harness.

   HINT:

   If the seat adjuster is deformed, do not try to repair it. Always replace it with a new one.

cardiagn.com

2005 Toyota RAV4
2005 RESTRAINTS Supplemental Restraint System - RAV4

DISPOSAL

HINT:

When scrapping vehicles equipped with an SRS or disposing of the side airbag assembly, always first deploy the airbag in accordance with the procedure described below. If any abnormality occurs with the airbag deployment, contact the SERVICE DEPT. of the DISTRIBUTOR, INC.

CAUTION:

- **Never dispose of a side airbag assembly which has an undeployed airbag.**
- **The airbag produces a sizeable exploding sound when it deploys. Perform the operation out-of-doors and where it will not create a nuisa to nearby residents.**
- **When deploying the airbag, always use the specified SST (SRS Airbag Deployment Tool), perform the operation in a place away from electric noise.**

SST 09082-00700

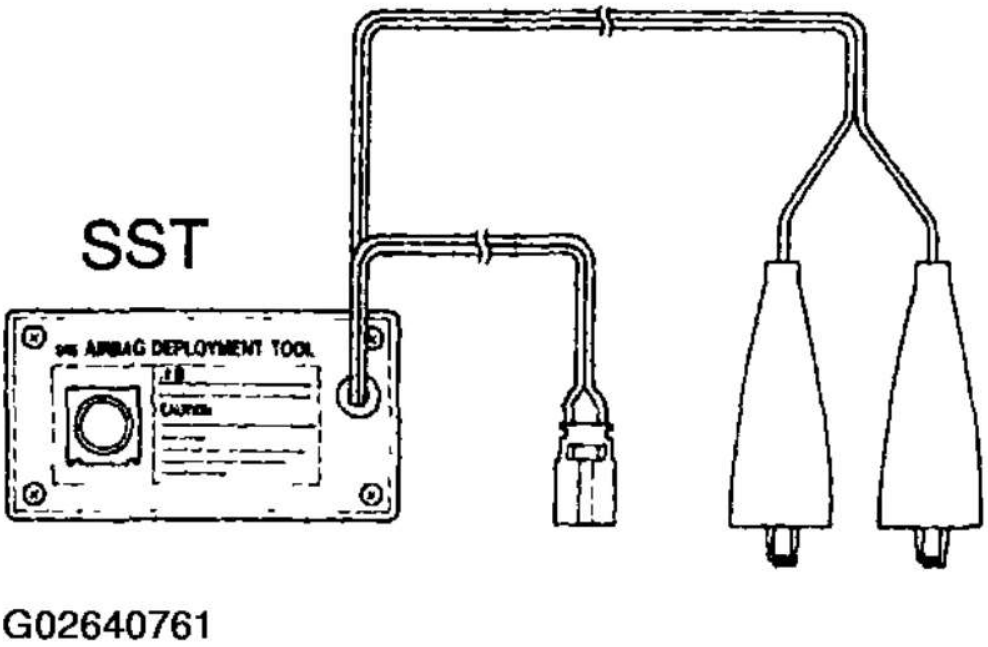


Fig. 95: Identifying SRS Airbag Deployment Tool SST
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

cardiagn.com

2005 Toyota RAV4
2005 RESTRAINTS Supplemental Restraint System - RAV4

- **When deploying an airbag, perform the operation at least 10 m (33 ft) away from the airbag assembly.**
- **The side airbag assembly is very hot when the airbag is deployed. Do touch it for at least 30 minutes after deployment.**
- **Use gloves and safety glasses when handling a side airbag assembly the deployed airbag.**
- **Always wash your hands with water after completing the operation.**
- **Do not apply water to a side airbag assembly with the deployed airbag**

1. **DISPOSE OF SIDE AIRBAG ASSEMBLY (DEPLOYMENT METHOD WHEN SCRAPPING VEHICLE)**

   HINT:

   Prepare a battery as the power source to deploy the airbag.

   a. Check functioning of the SST (see step () under **DISPOSAL**).

      SST 09082-00700

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

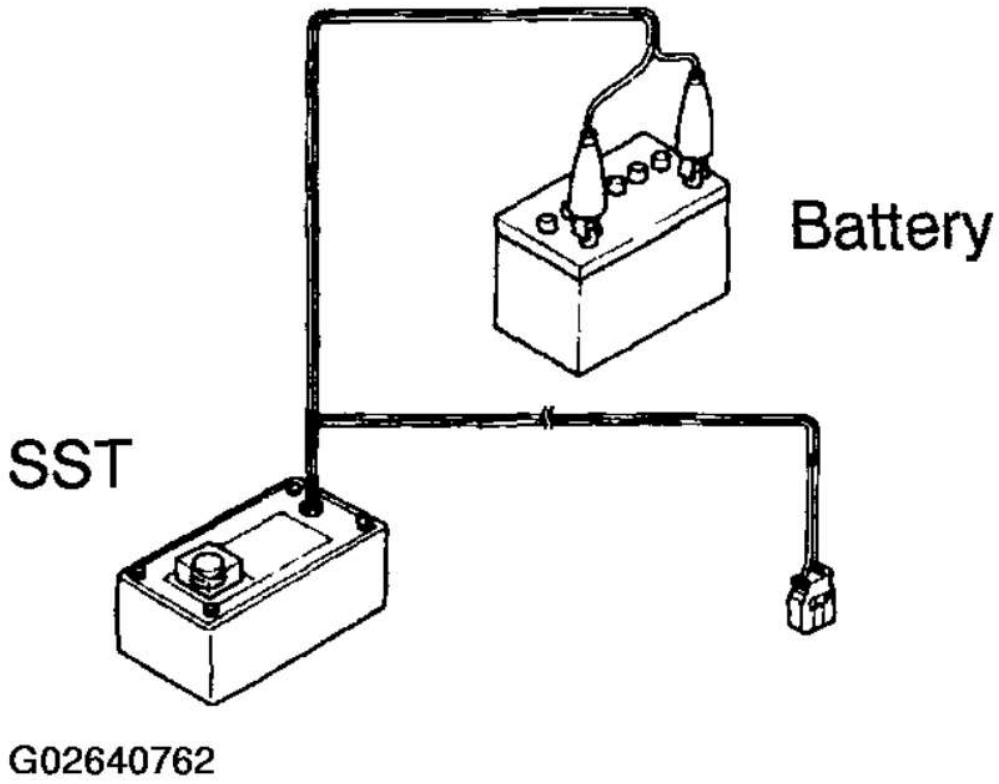


Fig. 96: Checking Functioning Of SST
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

b. Disconnect the side airbag connector.

NOTE: When handling the airbag connector, take care not to damage the airbag wire harness.

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

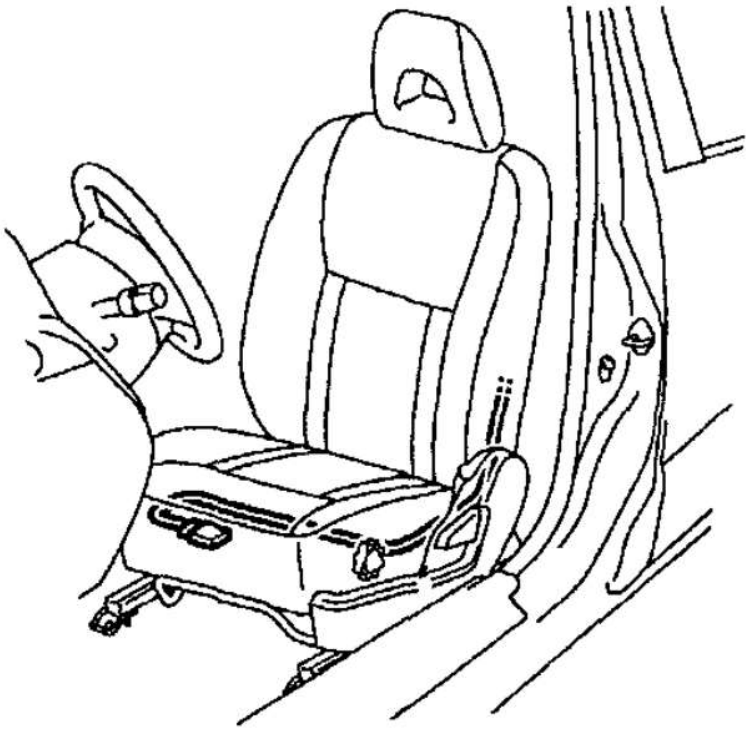


Fig. 97: Disconnecting Side Airbag Connector
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

c. Install the SST.
   1. Connect the connectors of the 2 SSTs to the airbag connector.

      SST 09082-00700, 09082-00750

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

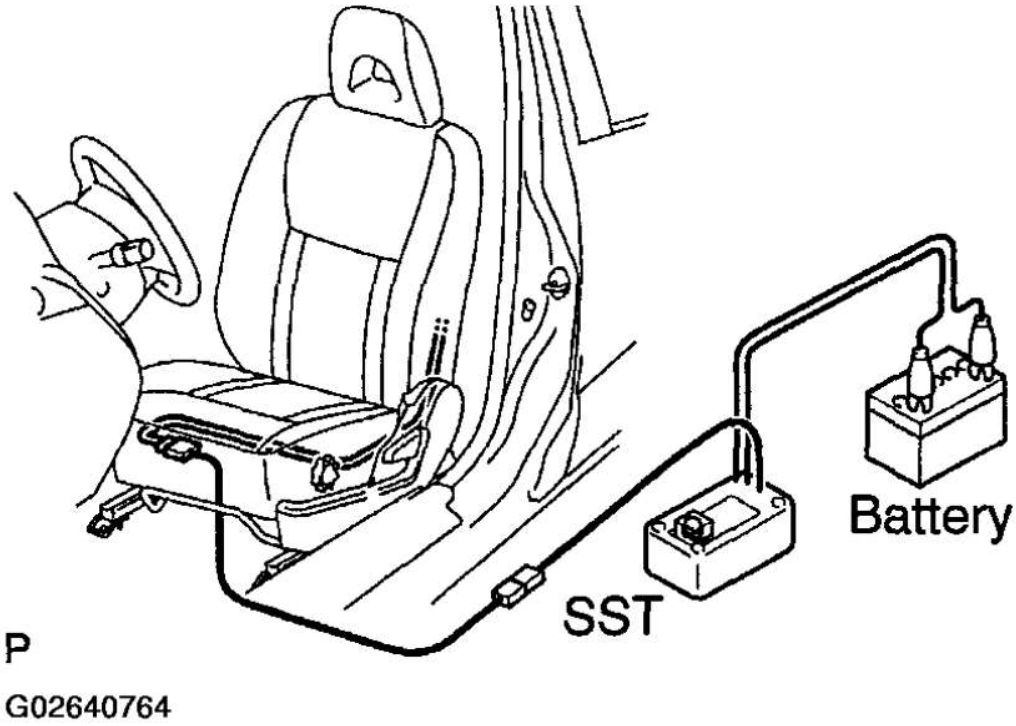


Fig. 98: Connecting Connectors Of SSTs To Airbag Assembly Connector
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

NOTE: To avoid damaging the SST connector and wire harness, do not lock the secondary lock of the twin lock.

2. Move the SSTs at least 10 m (33 ft) away from the front of the vehicle.

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

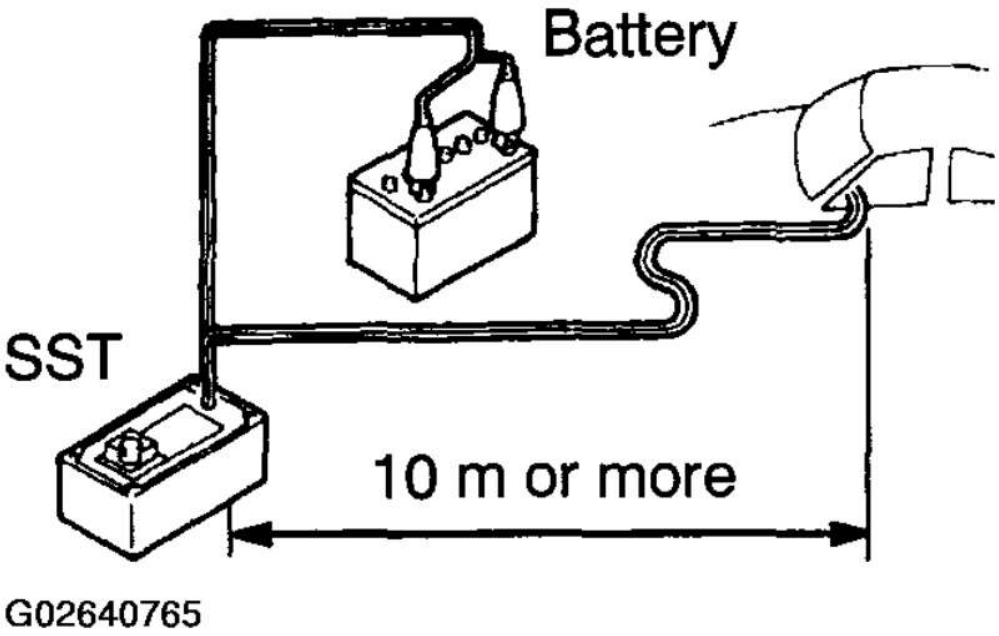


Fig. 99: Moving SSTs At Least 10 Meters Away From Front Of Vehicle
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

3. Close all the doors and windows of the vehicle.

   HINT:

   Do not close the windows fully. Allow clearance for inserting the SST wire harness.

   NOTE: Take care not to damage the SST wire harness.

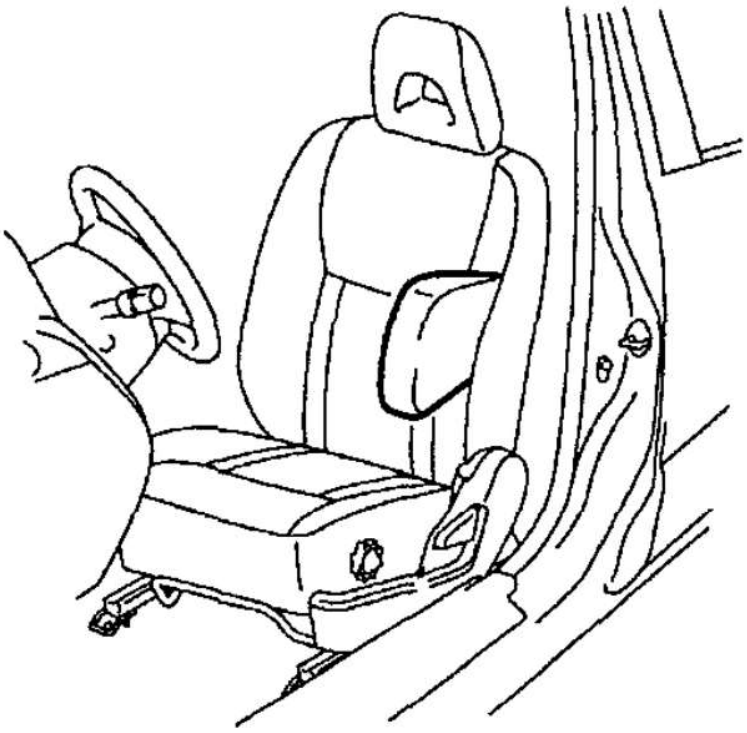
4. Connect the SST red clip to the battery positive (+) terminal and the black clip to the battery negative (-) terminal.

d. Deploy the airbag.
   1. Check that no one is inside the vehicle or within 10 m (33 ft) area around the vehicle.
   2. Press the SST activation switch and deploy the airbag.

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4



P

G02640766

cardiagn.com

Fig. 100: Identifying Deployed Airbag
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

CAUTION:

- **The side airbag assembly is very hot when the airbag is deployed. Do not touch it for at least 30 minutes after deployment.**
- **Use gloves and safety glasses when handling the side airbag assembly with the deployed airbag.**
- **Do not apply water to the side airbag assembly with the deployed airbag.**
- **Always wash your hands with water after completing the operation.**
- **When scrapping a vehicle, deploy the airbag and scrap the vehicle with the side airbag assembly still installed.**

HINT:

The airbag deploys simultaneously with the LED of SST activation switch illuminating.

2. **DISPOSE OF SIDE AIRBAG ASSEMBLY (DEPLOYMENT METHOD WHEN DISPOSING OF AIRBAG ASSEMBLY)**

NOTE:

- **When disposing of the side airbag assembly only, never use the customer's vehicle to deploy the airbag.**
- **Be sure to follow the procedure given below when deploying the airbag.**

HINT:

Have a battery ready as the power source to deploy the airbag.

a. Check functioning of the SST (see step () under **DISPOSAL**).

SST 09082-00700

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

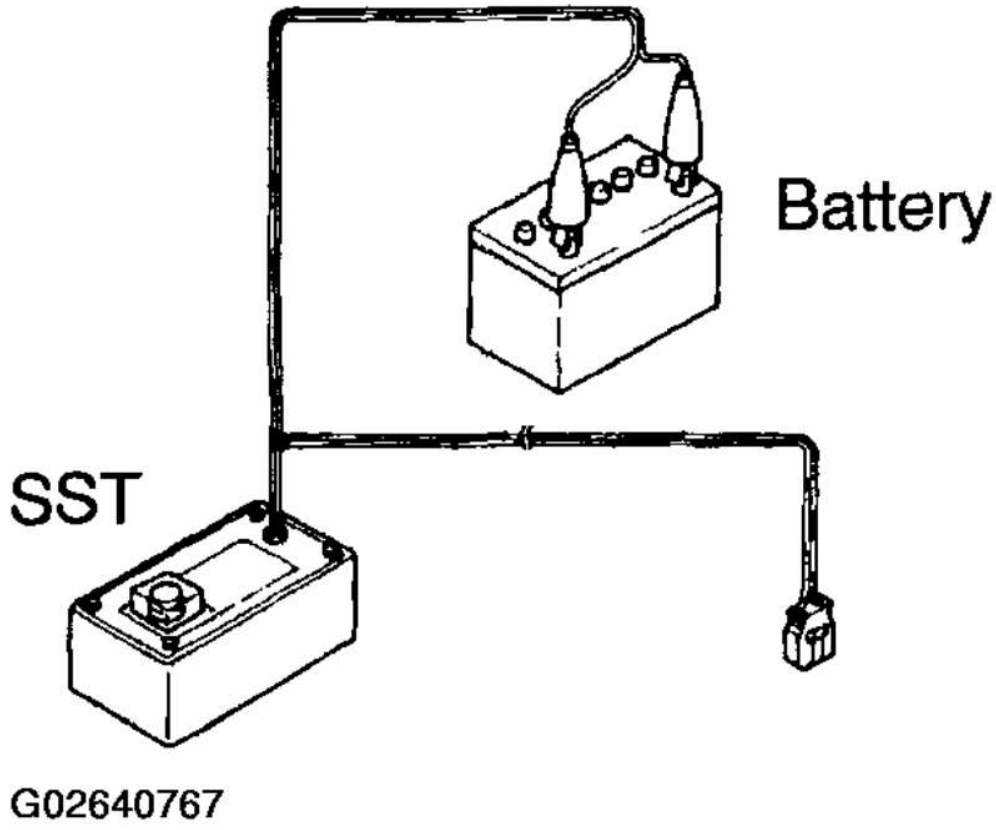


Fig. 101: Checking Functioning Of SST
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

b. Remove the seatback assembly (see **REMOVAL**).
c. Remove the side airbag assembly from the seatback assembly.
d. Remove the 2 nuts and side airbag assembly.

CAUTION: When storing the side airbag assembly, keep the upper surface of the airbag deployment side facing up.

cardiagn.com

2005 Toyota RAV4
2005 RESTRAINTS Supplemental Restraint System - RAV4

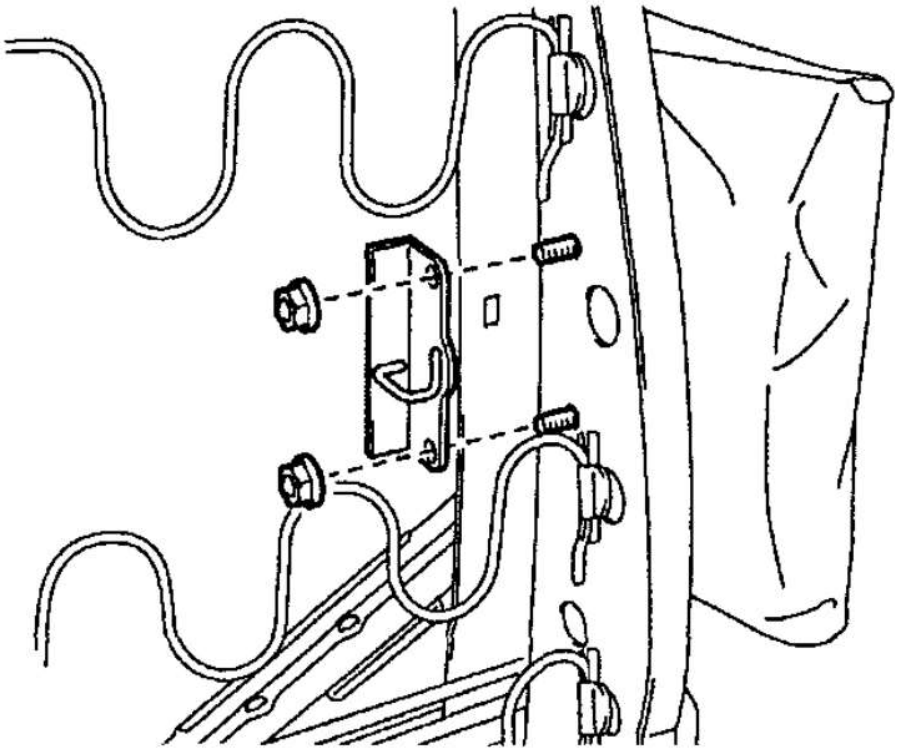


Fig. 102: Removing Side Airbag Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

e. Using a service-purpose wire harness, tie down the side airbag assembly to a tire.

Wire harness: Stripped wire harness section 1.25 mm^2 or more (0.0019 $in.^2$ or more)

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

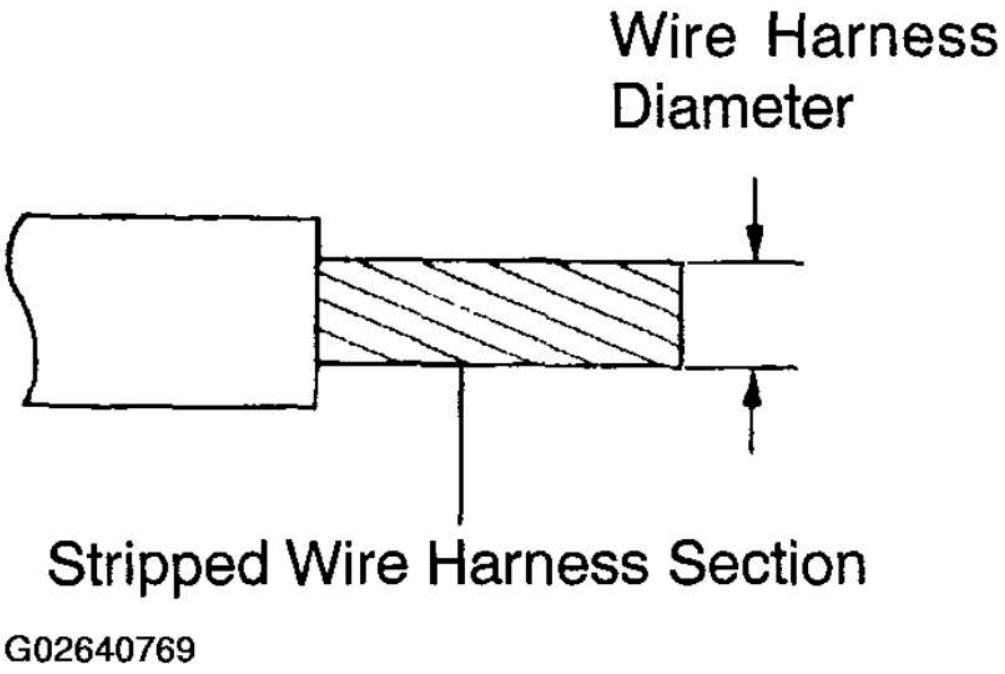


Fig. 103: Stripping Wire Harness Section
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

CAUTION: If a very thin wire harness or some other thing is used to tie down the side airbag assembly, it may be cut by the shock when the airbag is deployed. This is highly dangerous. Always use a wire harness for vehicle use which is at least 1.25 mm^2 (0.0019 $in.^2$).

HINT:

To calculate the square of the stripped wire harness section:

Square = 3.14 x $(Diameter)^2$ / 4

1. Install the 2 nuts to the side airbag assembly.

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

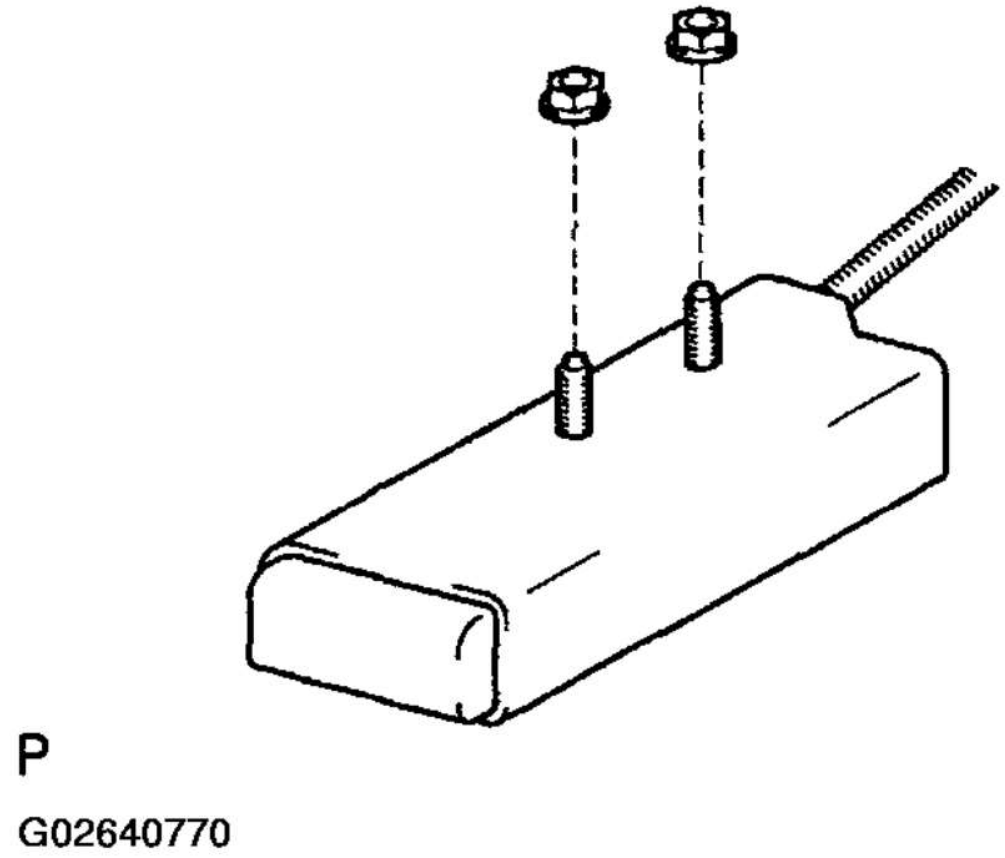


Fig. 104: Installing Nuts To Side Airbag Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. Wind the wire harness around the stud bolts of the side airbag assembly as shown in the illustration.

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

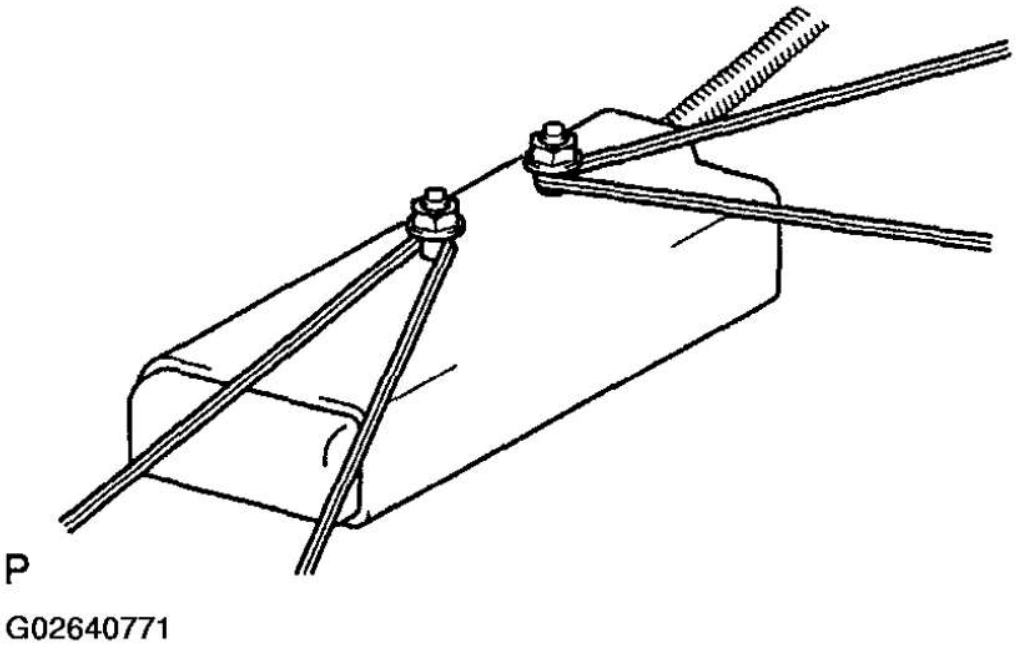


Fig. 105: Winding Wire Harness Around Stud Bolts Of Side Airbag Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

3. Position the side airbag assembly inside a tire with the airbag deployment direction facing inside.

Tire size: Must exceed the following dimensions Width: 185 mm (7.28 in.)

Inner diameter: 360 mm (14.17 in.)

CAUTION:

- **Make sure the wire harness is tight. It is very dangerous wh wire harness results in the side airbag assembly coming fre shock from the airbag deployment.**

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

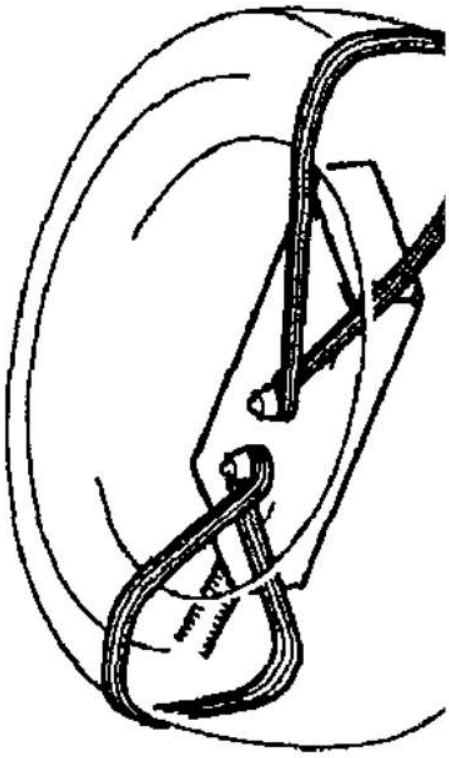


Fig. 106: Positioning Side Airbag Assembly Inside Tire (As S
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- **Always tie down the side airbag assembly with the airbag d side facing inside.**

NOTE: **The tire will be marked by the airbag deployment. When disposing of the airbag, use a redundant tire.**

f. Place tires.
   1. Place at least 2 tires under the tire to which the side airbag assembly is tied.
   2. Place at least 2 tires over the tire to which the side airbag assembly is tied. The top tire should have the wheel installed.

cardiagn.com

2005 Toyota RAV4
2005 RESTRAINTS Supplemental Restraint System - RAV4

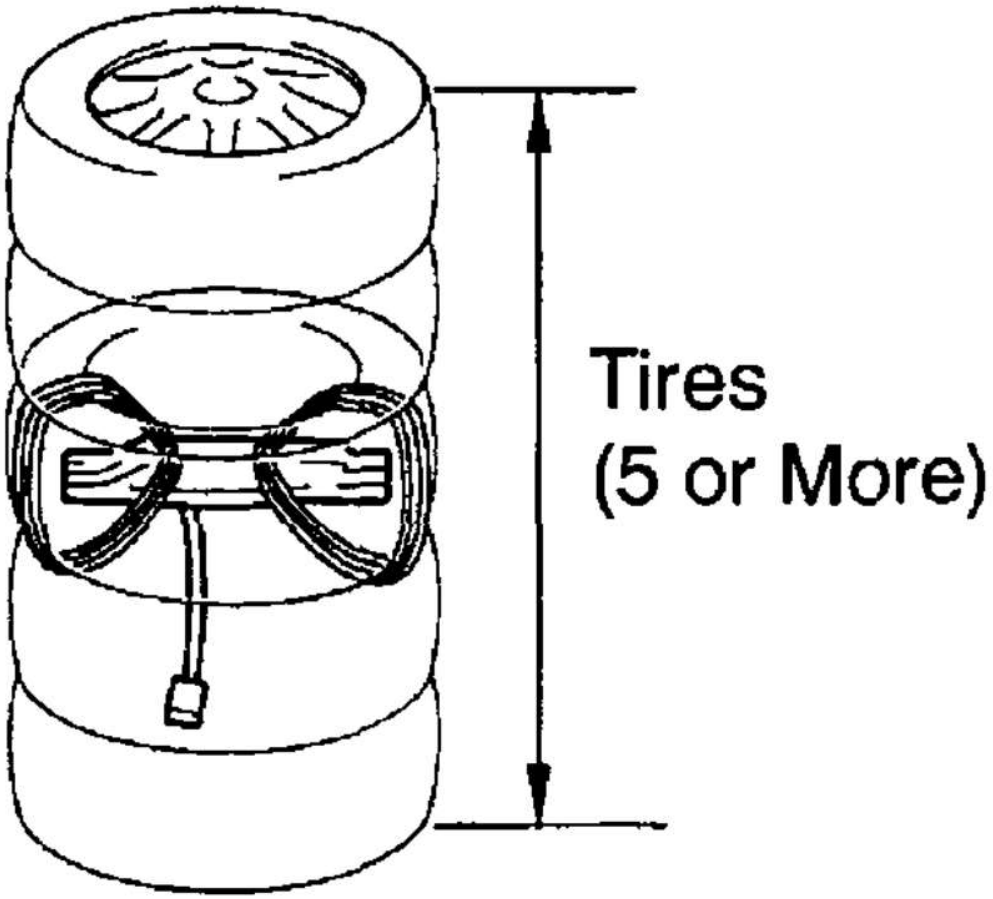


Fig. 107: Placing Side Airbag Assembly Inside Tires (As Shown)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

3. Tie the tires together with 2 wire harnesses.

CAUTION: Make sure that the wire harness is tight. It is very dangerous when a loose wire harness results in the tires coming free due to the shock from the airbag deployment.

HINT:

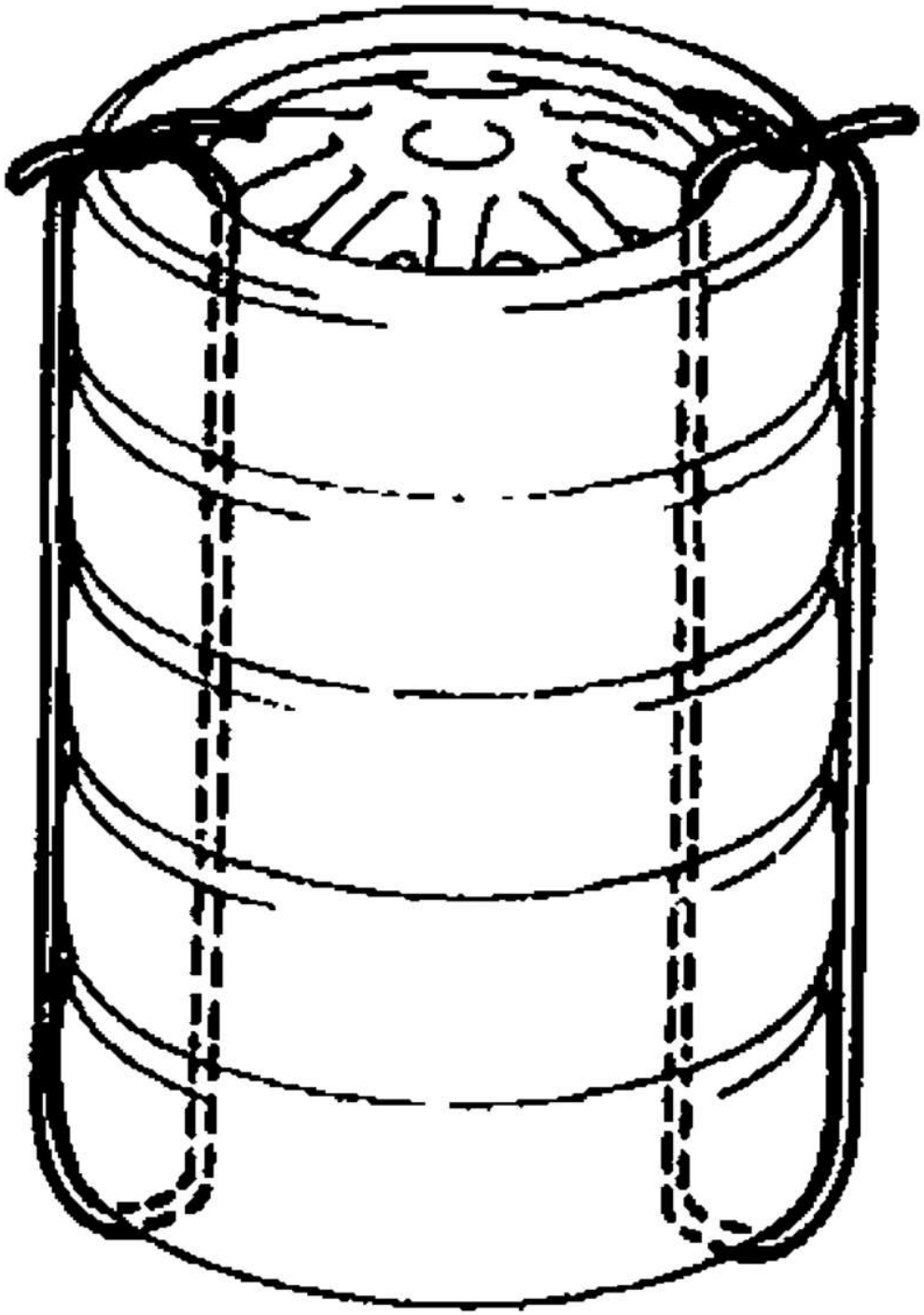
Place the SST connector and wire harness inside tires. Secure at least 1 m (3 ft) of slack for the

cardiagn.com

wire harness.

cardiagn.com

2005 Toyota RAV4
2005 RESTRAINTS Supplemental Restraint System - RAV4



G02640774

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

Fig. 108: Tie Tires Together With Wire Harnesses (As Shown)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

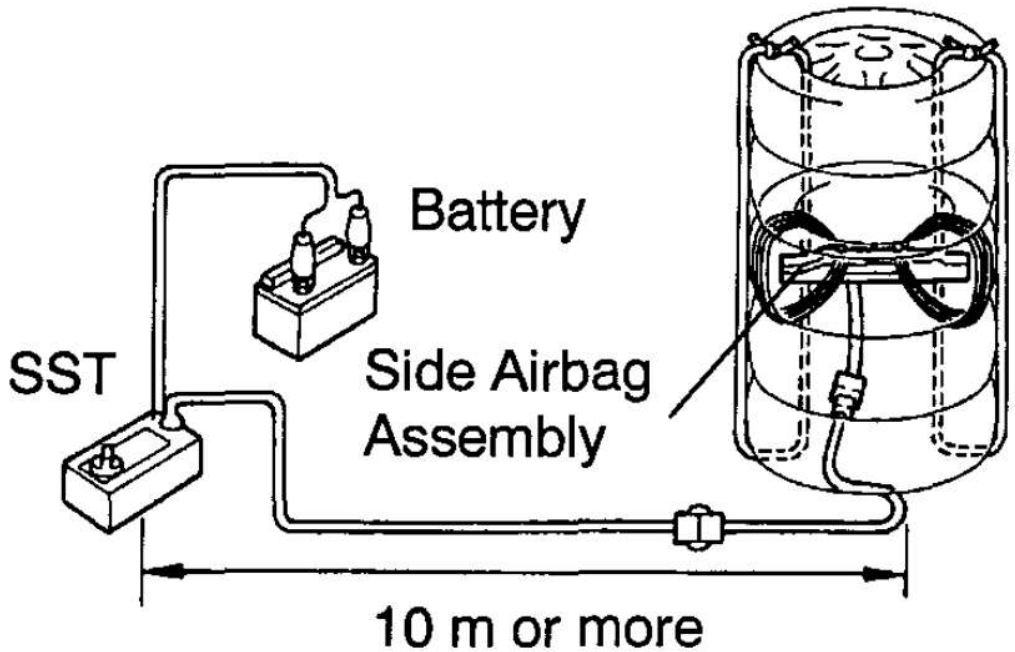
g. Install the SST.

Connect the connectors of the 2 SSTs to the side airbag assembly connector.

SST 09082-00700, 09082-00750

NOTE: To avoid damaging the SST connector and wire harness, do not lock the secondary lock of the twin lock, Also, secure some slack for the SST wire harness inside the tire.

h. Deploy the airbag.
1. Connect the SST red clip to the battery positive (+) terminal and the black clip to the battery negative (-) terminal.
2. Check that no one is within 10 m (33 ft) area around the tire which the side airbag assembly is tied to.
3. Press the SST activation switch and deploy the airbag.



cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

Fig. 109: Connecting Connectors Of SSTs To Side Airbag Assembly Connector
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

HINT:

The airbag deploys simultaneously with the LED of the SST activation switch illuminating.

i. Dispose of the side airbag assembly.

CAUTION:

- **The side airbag assembly is very hot when the airbag is deployed. Do not touch it for at least 30 minutes after deployment.**
- **Use gloves and safety glasses when handling a side airbag assembly with the deployed airbag.**
- **Do not apply water to a side airbag assembly with the deployed airbag.**
- **Always wash your hands with water after completing the operation.**

1. **Remove the side airbag assembly from the tire.**
2. **Place the side airbag assembly in a vinyl bag, tie the end tightly and dispose of it in the same way as other general parts disposal.**

cardiagn.com

2005 Toyota RAV4
2005 RESTRAINTS Supplemental Restraint System - RAV4



G02640776

Fig. 110: Placing Side Airbag Assembly In Vinyl Bag
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

3. **DEPLOYMENT WHEN DISPOSING OF SIDE AIRBAG ASSEMBLY WITH AIRBAG**

cardiagn.com

2005 Toyota RAV4
2005 RESTRAINTS Supplemental Restraint System - RAV4

DEPLOYED IN COLLISION

Dispose of the side airbag assembly.

CAUTION:

- **The side airbag assembly is very hot when the airbag is deployed. Do not touch it for at least 30 minutes after deployment.**
- **Use gloves and safety glasses when handling a side airbag assembly with the deployed airbag.**
- **Do not apply water to a side airbag assembly with the deployed airbag.**
- **Always wash your hands with water after completing the operation.**

1. **Remove the side airbag assembly from the seat (see step b).**
2. **Place the side airbag assembly in a vinyl bag, tie the end tightly and dispose of it in the same way as other general parts disposal.**

cardiagn.com

2005 Toyota RAV4
2005 RESTRAINTS Supplemental Restraint System - RAV4



G02640777

Fig. 111: Placing Side Airbag Assembly In Vinyl Bag
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REPLACEMENT

cardiagn.com

2005 Toyota RAV4
2005 RESTRAINTS Supplemental Restraint System - RAV4

REPLACEMENT REQUIREMENTS

In the following cases, replace the seatback assembly or seatback cover.

REPLACEMENT REQUIREMENTS CASES DESCRIPTION

Case	Replacing part
If the side airbag has been deployed.	Seatback assembly
If the side airbag assembly has been found to be faulty in troubleshooting.	Seatback assembly
If the side airbag assembly has cuts during checking items (see **INSPECTION**).	Seatback assembly
If the seatback cover has cuts and frayed seams during checking items (see **INSPECTION**).	Seatback cover
If the side airbag assembly has been found to be faulty during checking items (see **INSPECTION**).	Seatback assembly
If the seatback cover has been found to be faulty during checking items (see **INSPECTION**).	Seatback cover
If the seatback assembly has been dropped.	Seatback assembly

CAUTION: For removal and installation of the seatback assembly, see REMOVAL and INSTALLATION. Be sure to follow the correct procedure.

INSTALLATION

NOTE: Never use airbag parts from another vehicle. When replacing parts, replace them with new parts.

HINT:

- For steps 1 to 8, refer to **REASSEMBLY** .
- For steps 9, refer to **INSTALLATION** .

1. **INSTALL SEATBACK FRAME**
2. **INSTALL SEATBACK COVER**

NOTE: Do not damage the side airbag assembly

3. **INSTALL HEADREST SUPPORTS**
4. **INSTALL HEADREST**
5. **INSTALL SEATBACK ASSEMBLY**
6. **INSTALL FRONT SEATBACK BOARD**

cardiagn.com

7. **INSTALL FRONT SEAT CUSHION INNER SHIELD**
8. **INSTALL FRONT SEAT CUSHION SHIELD**
9. **INSTALL FRONT SEAT**

NOTE: Be careful not to damage the body.

CURTAIN SHIELD AIRBAG ASSEMBLY

COMPONENTS

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

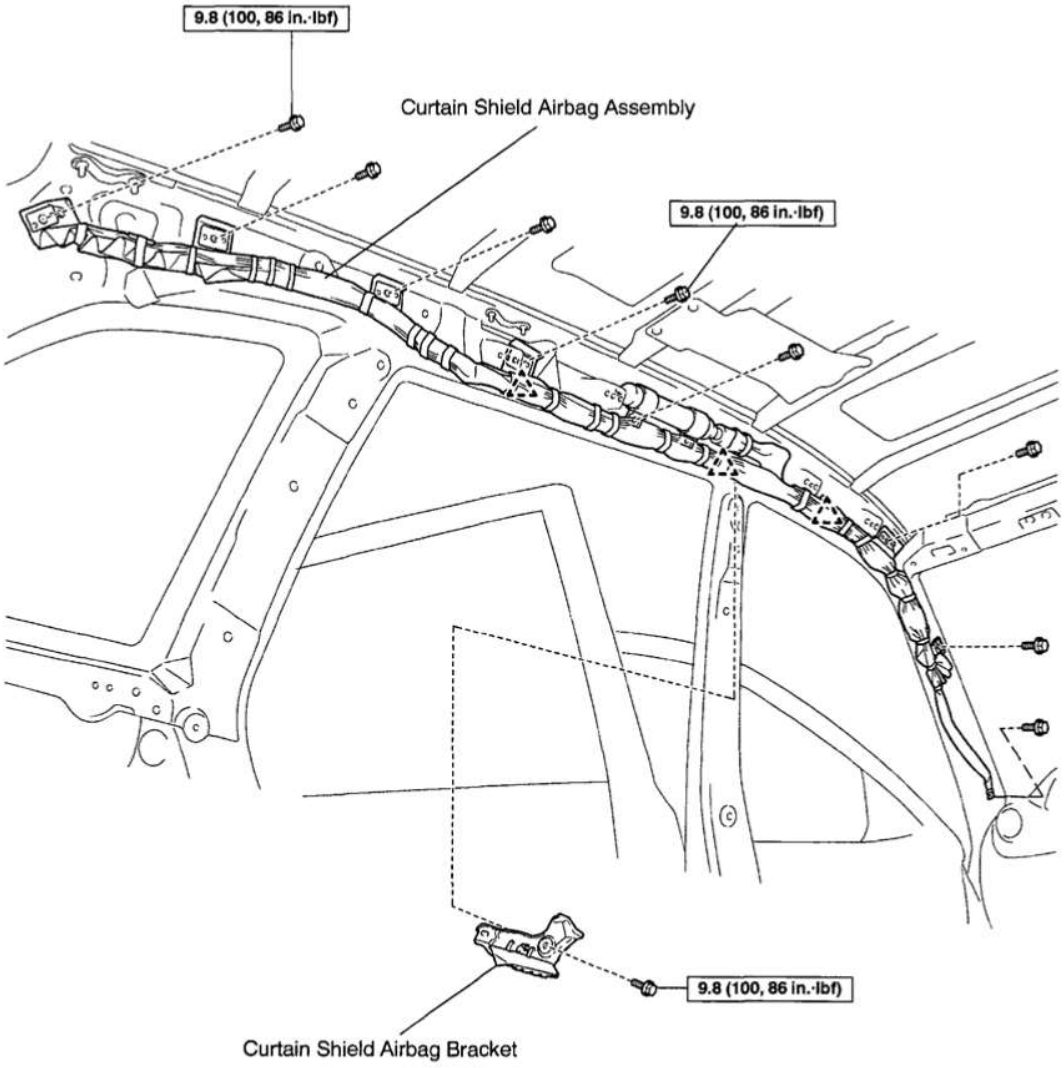


Fig. 112: Identifying Curtain Shield Airbag Assembly Components & Torque Specifications
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

NOTE:

- **If the wiring connector of the SRS is disconnected and the ignition switch is in the ON position, DTCs will be recorded.**

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

- **Never use the airbag parts from another vehicle. When replacing parts, use new parts.**

1. **REMOVE ROOF HEADLINING (See REMOVAL)**
2. **REMOVE CURTAIN SHIELD AIRBAG ASSEMBLY**
   a. In the alphabetical order shown in **Fig. 113**, remove the bolts and airbag assembly.

   HINT:

   - Remove bolt A.
   - Bind the front and rear parts of the airbag assembly before removing bolt B.

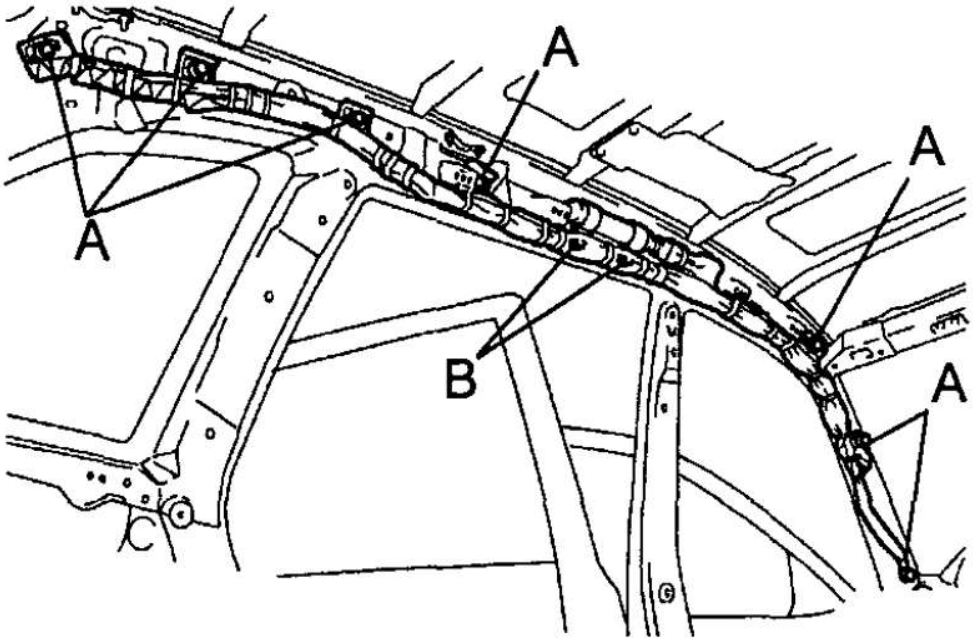


Fig. 113: Removing Curtain Shield Airbag Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

   b. Disconnect the airbag connector.

NOTE: **When handling the airbag connector, take care not to damage the airbag wire harness.**

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

c. Remove the bolt and bracket.

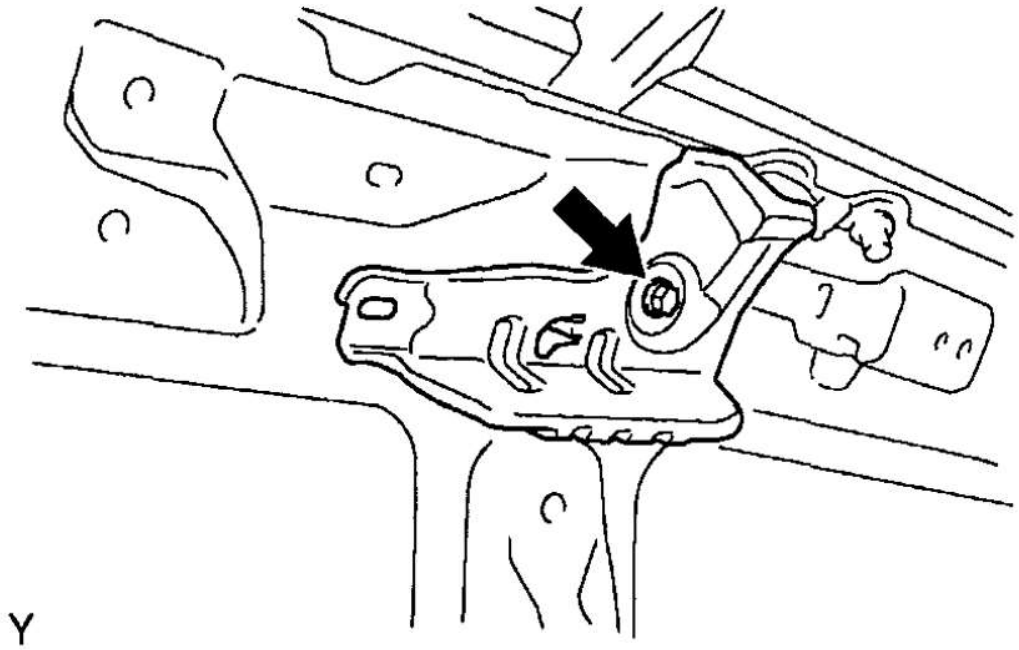


Fig. 114: Removing Bolt And Bracket
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

d. Put the removed airbag in a clear plastic bag and keep it in a safe place.

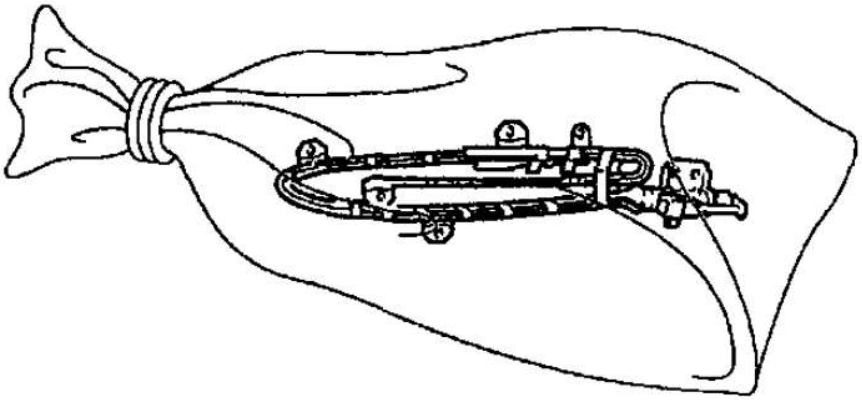
CAUTION: Never disassemble the airbag assembly.

NOTE: A protective bag is not reusable.

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4



P

G02640781

Fig. 115: Putting Removed Airbag In Clear Plastic Bag
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

cardiagn.com

INSPECTION

1. **Vehicles not involved in a collision: INSPECT SUPPLEMENTAL RESTRAINT SYSTEM**
   a. Check the diagnostic system (see **PRE-CHECK**).
   b. Visually check the following items with the curtain shield airbag assembly installed in the vehicle.

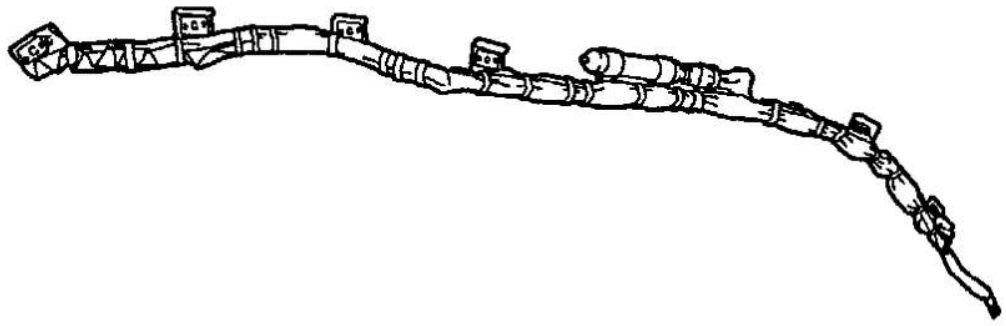
      Check for cuts, minute cracks or marked discoloration on the roof side inner garnish and roof headlining.

2. **Vehicles involved in a collision and airbag not deployed: INSPECT SUPPLEMENTAL RESTRAINT SYSTEM**
   a. Check the diagnostic system (see **PRE-CHECK**).
   b. Visually check the following items with the curtain shield airbag assembly removed from the vehicle.
      - Check for cuts, tears and cracks or marked discoloration on the curtain shield airbag assembly.
      - Check for cuts and cracks in the wire harness, and chips in the connectors.

CAUTION: For removal and installation of the curtain shield airbag

assembly, see REMOVAL and INSTALLATION. Be sure to follow the correct procedure.

3. **Vehicle involved in a collision and airbag is deployed: INSPECT SUPPLEMENTAL RESTRAINT SYSTEM**
   a. Check the diagnostic system (see **PRE-CHECK**).
   b. Visually check the following items with the curtain shield airbag assembly removed from the vehicle.
      - Check for the deformation or cracks on the body where the curtain shield airbag was installed.
      - Check for damage to the connector and wire harness.



P

G02640782

Fig. 116: Visually Checking Roof Side Inner Garnish & Roof Headlining For Damage
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

HINT:

If the body where the curtain shield airbag was installed is deformed or cracked, replace it.

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

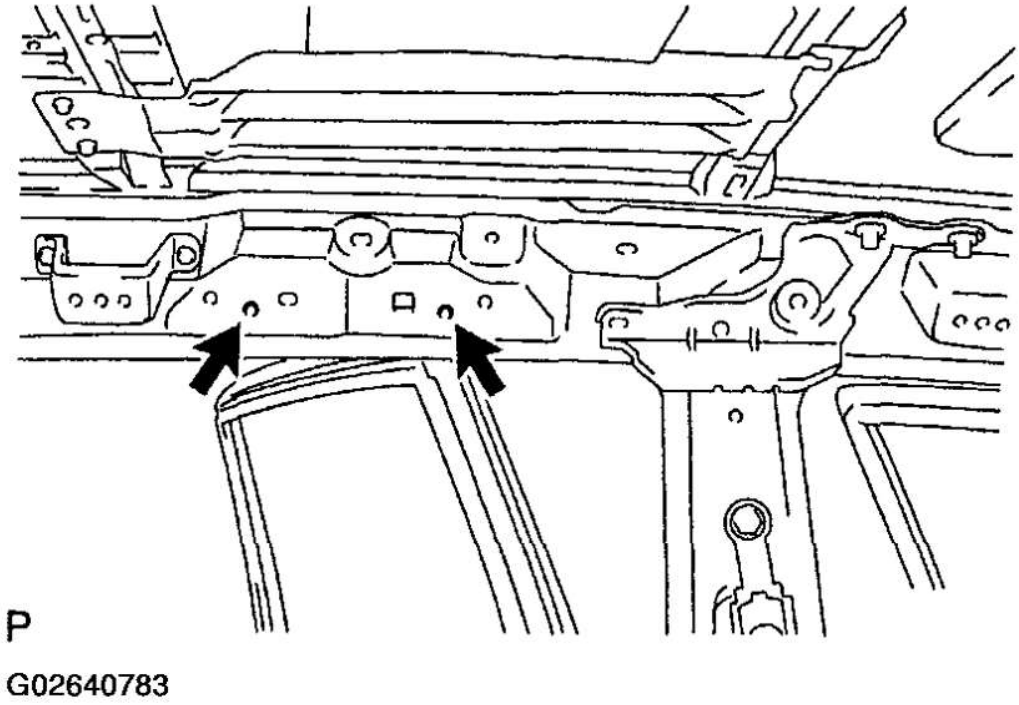


Fig. 117: Checking Body For Deformation Or Cracking
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

cardiagn.com

DISPOSAL

HINT:

When scrapping vehicles equipped with an SRS or disposing of the side airbag assembly, always first deploy the airbag in accordance with the procedure described below. If any abnormality occurs with the airbag deployment, contact the SERVICE DEPT. of the TOYOTA MOTOR SALES, U.S.A., INC.

CAUTION:

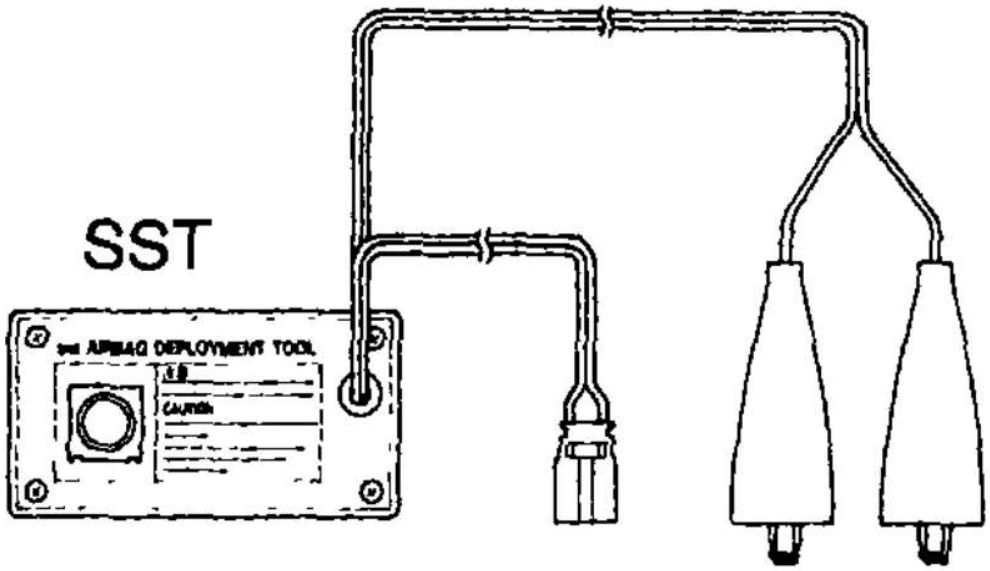
- **Never dispose of a side airbag assembly which has an undeployed airbag.**
- **The airbag produces a sizeable exploding sound when it deploys. Perform the operation out-of-doors and where it will not create a nuisa to nearby residents.**
- **When deploying the airbag, always use the specified SST (SRS Airbag Deployment Tool). Perform the operation in a place away from electric noise.**

SST 09082-00700

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

- **When deploying an airbag, perform the operation at least 10 m (33 ft) away from the airbag assembly.**
- **The side airbag assembly is very hot when the airbag is deployed. Do touch it for at least 30 minutes after deployment.**
- **Use gloves and safety glasses when handling a side airbag assembly the deployed airbag.**
- **Always wash your hands with water after completing the operation.**
- **Do not apply water to a side airbag assembly with the deployed airbag**



G02640784

Fig. 118: Identifying SRS Airbag Deployment Tool SST
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

1. **DISPOSE OF CURTAIN SHIELD AIRBAG ASSEMBLY (DEPLOYMENT METHOD WHEN SCRAPPING VEHICLE)**

   HINT:

   Have a battery ready as the power source to deploy the airbag.

cardiagn.com

a. Check functioning of the SST (see step () under **DISPOSAL**).

SST 09082-00700

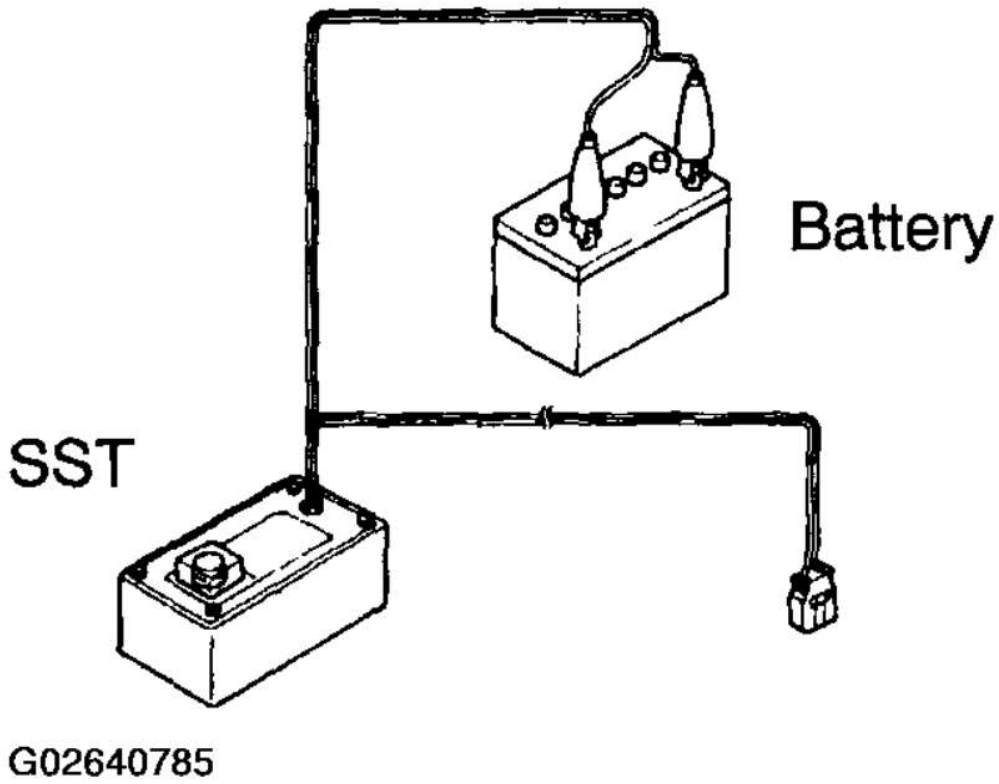


Fig. 119: Checking Functioning Of SST
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

b. Disconnect the curtain shield airbag connector.

NOTE: When handling the airbag connector, take care not to damage the airbag wire harness.

c. Install the SST.
   a. Connect the connectors of the 2 SST to the airbag connector.

   SST 09082-00700, 09082-00802

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

NOTE: To avoid damaging the SST connector and wire harness, do not lock the secondary lock of the twin lock.

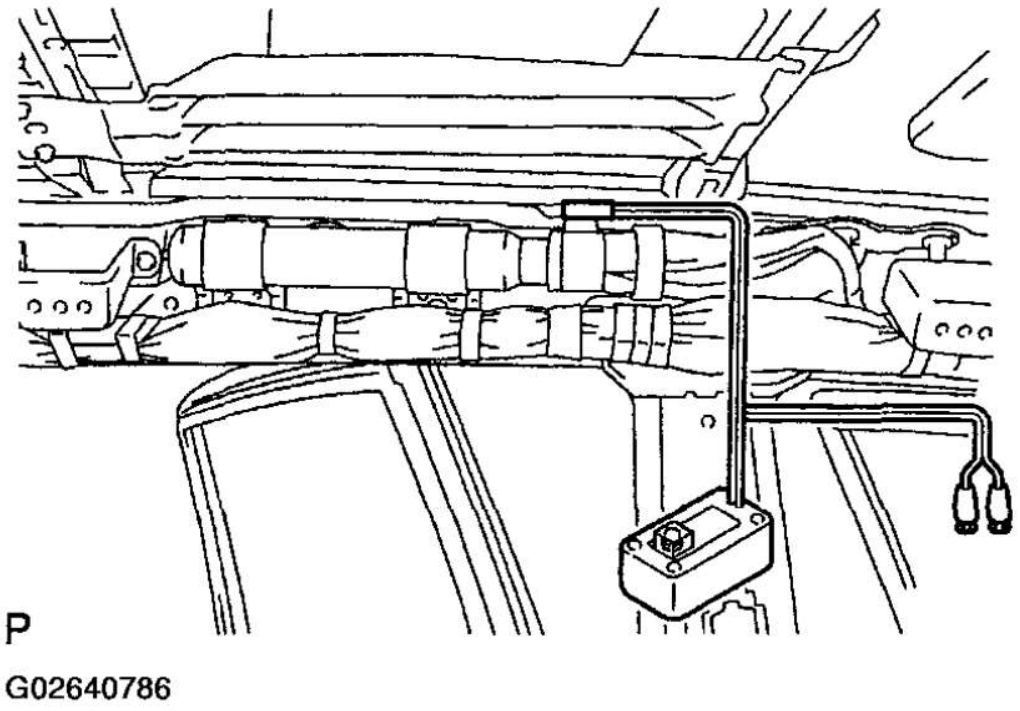


Fig. 120: Connecting Connectors Of SST To Airbag Connector
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

b. Move the SST at least 10 m (33 ft) away from the front of the vehicle.
c. Close all the doors and windows of the vehicle.

HINT:

Do not close the windows fully. Allow clearance for inserting the SST wire harness.

NOTE: Take care not to damage the SST wire harness.

d. Connect the SST red clip to the battery positive (+) terminal and the black clip to the battery negative (-) terminal.

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

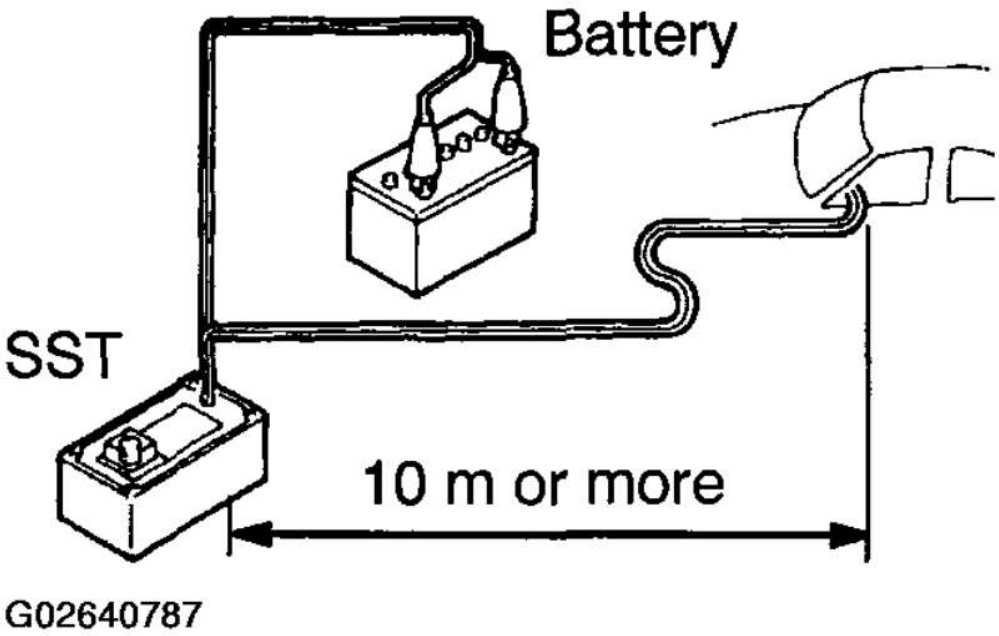


Fig. 121: Moving SST At Least 10 Meters Away From Front Of Vehicle
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

d. Deploy the airbag.
   1. Check that no one is inside the vehicle or within 10 m (33 ft) area around the vehicle.
   2. Press the SST activation switch and deploy the airbag.

CAUTION:
- **The curtain shield airbag assembly is very hot when the airb deployed. Do not touch it for at least 30 minutes after deplo**

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

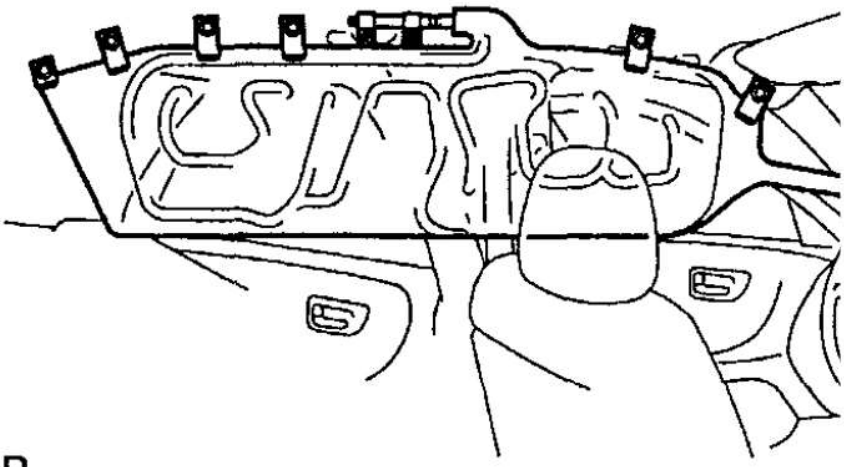


Fig. 122: Identifying Deployed Airbag
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- **Use gloves and safety glasses when handling the curtain sh assembly with the deployed airbag.**
- **Do not apply water to the curtain shield airbag assembly wit deployed airbag.**
- **Always wash your hands with water after completing the op**
- **When scrapping a vehicle, deploy the airbag and scrap the v the curtain shield airbag assembly still installed.**

HINT:

The airbag deploys simultaneously with the LED of the SST activation switch illuminating.

2. **DISPOSE OF CURTAIN SHIELD AIRBAG ASSEMBLY (DEPLOYMENT METHOD WHEN DISPOSING OF AIRBAG ASSEMBLY)**

NOTE:

- **When disposing of the curtain shield airbag assembly only, never use the customer's vehicle to deploy the airbag.**
- **Be sure to follow the procedure given below when deploying the airbag.**

cardiagn.com

2005 Toyota RAV4
2005 RESTRAINTS Supplemental Restraint System - RAV4

HINT:

Have a battery ready as the power source to deploy the airbag.

a. Check functioning of the SST (see step () under **DISPOSAL**).

SST 09082-00700

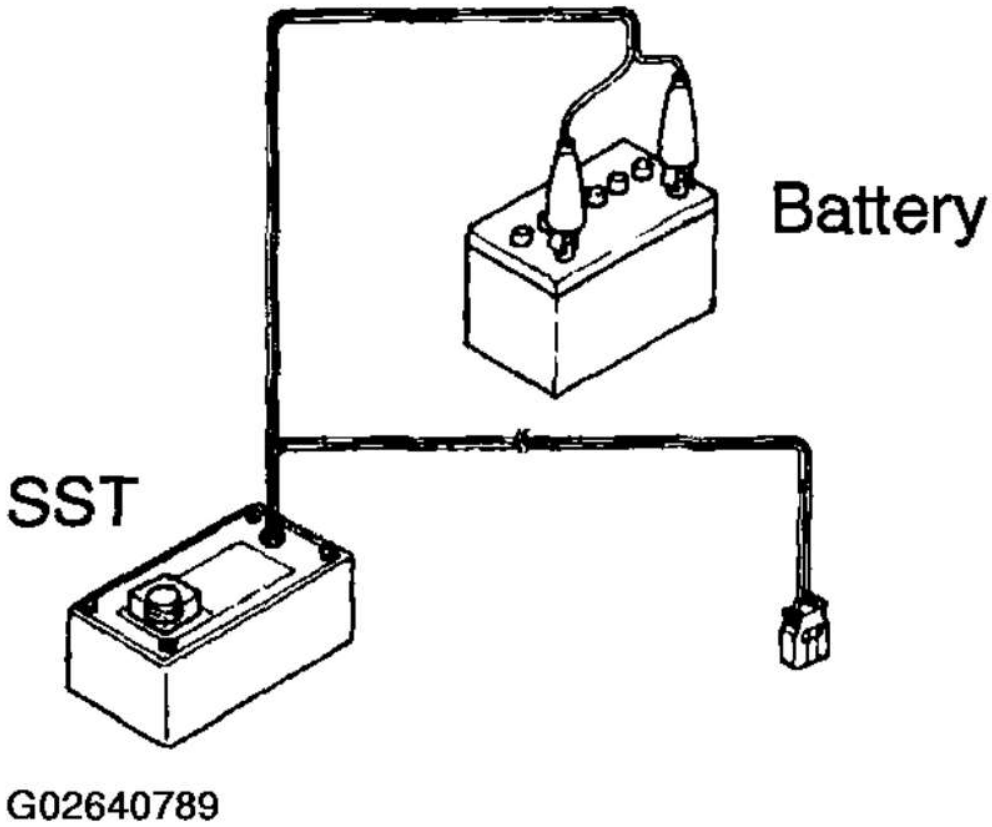


Fig. 123: Checking Functioning Of SST
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

b. Remove the curtain shield airbag assembly (see **REMOVAL**).
c. Cut off the deployment section of the airbag from the inflator.
d. Using a service-purpose wire harness, tie down the curtain shield airbag assembly to the tire.

Wire harness: Stripped wire harness section 1.25 mm^2 or more (0.0019 in. or more)

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

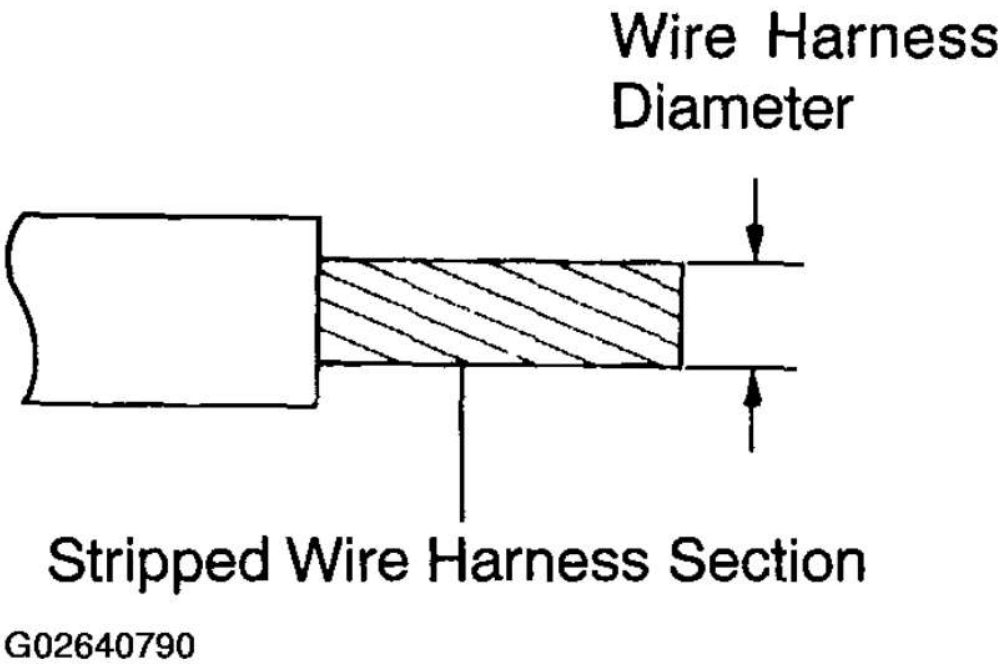


Fig. 124: Stripping Wire Harness Section
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

CAUTION: If a very thin wire harness or some other thing is used to tie down the side airbag assembly, it may be cut by the shock when the airbag is deployed. This is highly dangerous. Always use a wire harness for vehicle use which is at least 1.25 mm^2 (0.0019 in^2 .).

HINT:

To calculate the square of the stripped wire harness section:

Square = 3.14 x $(Diameter)^2$ / 4

1. Passing the wire harness through the installation holes as shown in the illustration.

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

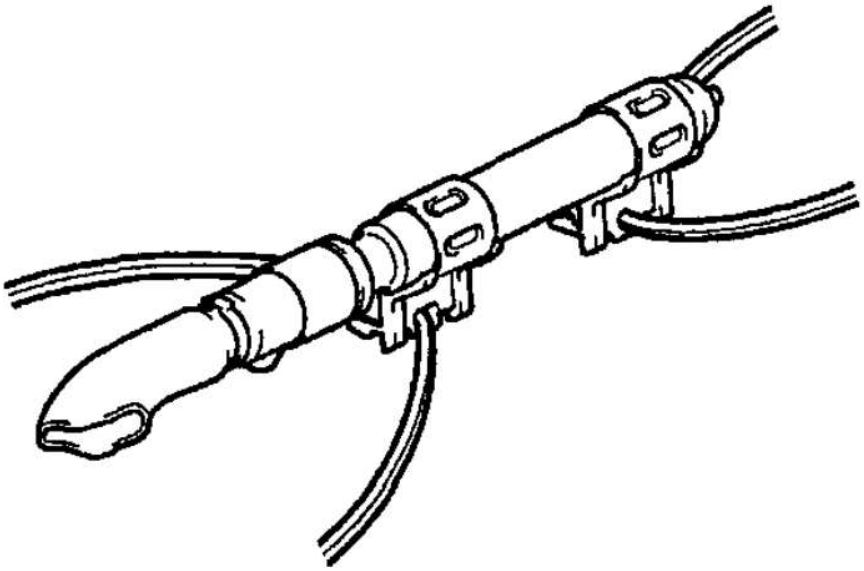


Fig. 125: Passing Wire Harness Through Curtain Shield Airbag Installation Holes
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. Position the curtain shield airbag assembly inside a tire with the airbag deployment direction facing inside.

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

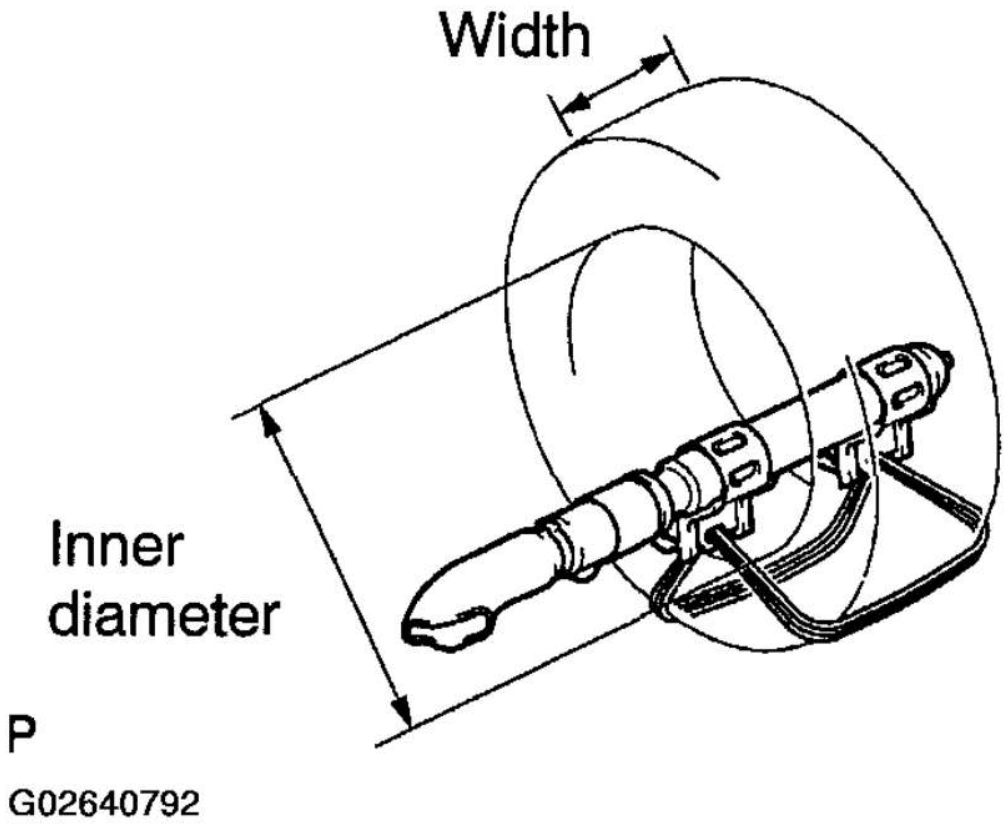


Fig. 126: Positioning Curtain Shield Airbag Assembly Inside Tire
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

Tire size: Must exceed the following dimensions:

Width: 185 mm (7.28 in.)

Inner diameter: 360 mm (14.17 in.)

CAUTION: Make sure the wire harness is tight. It is very dangerous when a loose wire harness results in the curtain shield airbag assembly coming free due to the shock from the airbag deployment.

NOTE: The tire will be marked by the airbag deployment. When disposing of the airbag, use a redundant tire.

e. Place tires.

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

CAUTION: Place tires so that the deployment direction of the curtain shield airbag will be downward.

1. Place at least 2 tires under the tire to which the side airbag assembly is tied.
2. Place at least 2 tires over the tire to which the side airbag assembly is tied. The top tire should have the wheel installed.

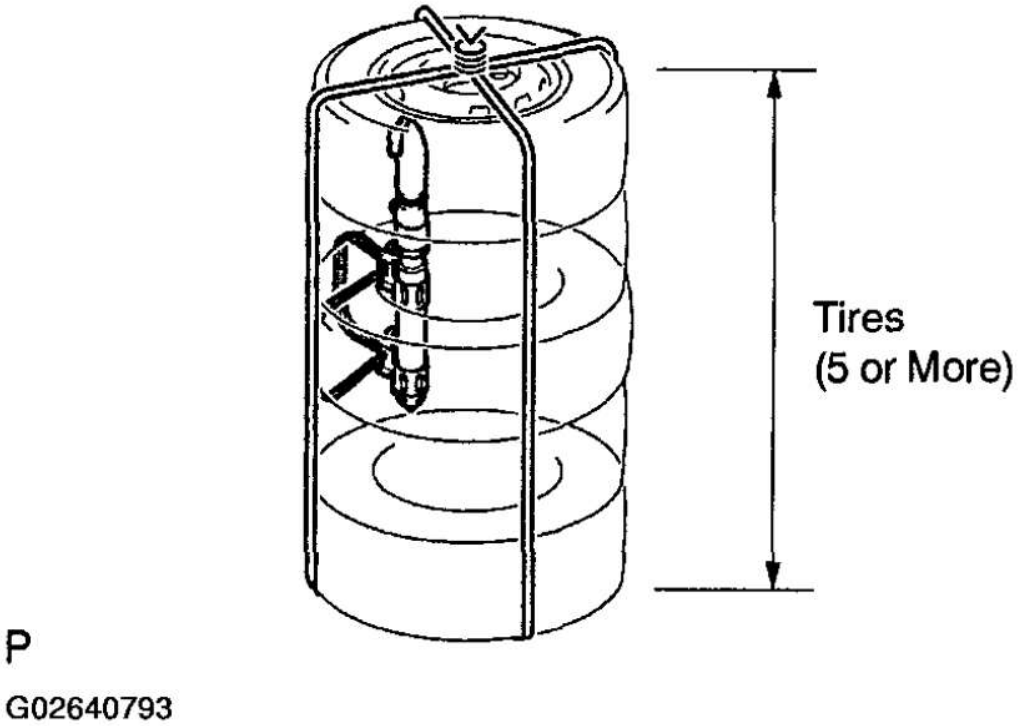


Fig. 127: Placing Curtain Shield Airbag Assembly Inside Tires (As Shown)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

3. Tie the tires together with 2 wire harnesses.

cardiagn.com

2005 Toyota RAV4
2005 RESTRAINTS Supplemental Restraint System - RAV4

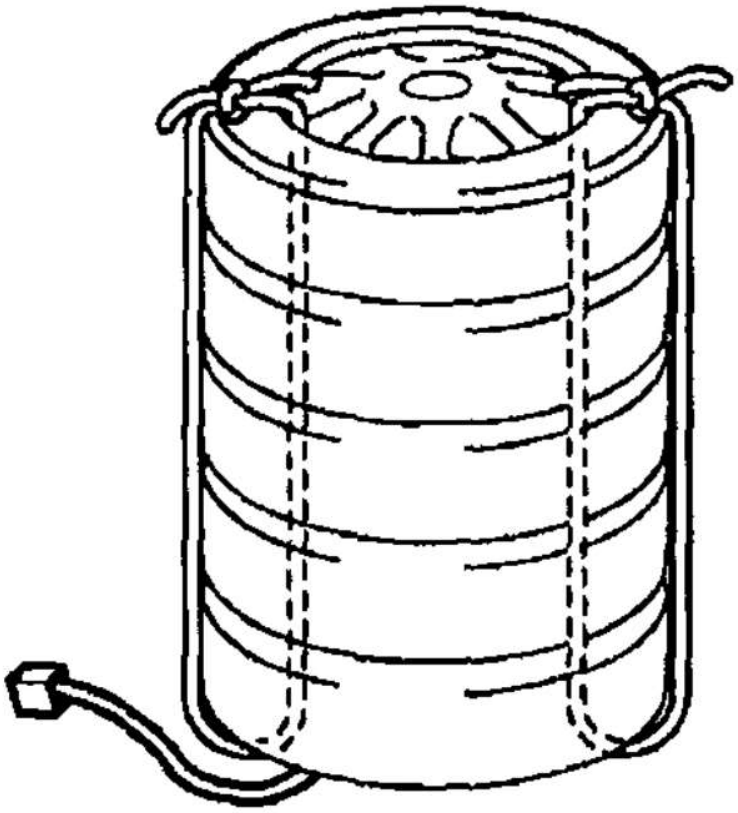


Fig. 128: Tie Tires Together With Wire Harnesses
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

CAUTION: Make sure that the wire harness are tight. It is very dangerous when loose wire harness results in the tires coming free due to the shock from the airbag deployment.

HINT:

Place the SST connector and wire harness inside tires. Secure at least 1 m (3 ft) of slack for the wire harness.

f. Install the SST.

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

Connect the connectors of the 2 SST to the curtain shield airbag assembly connector.

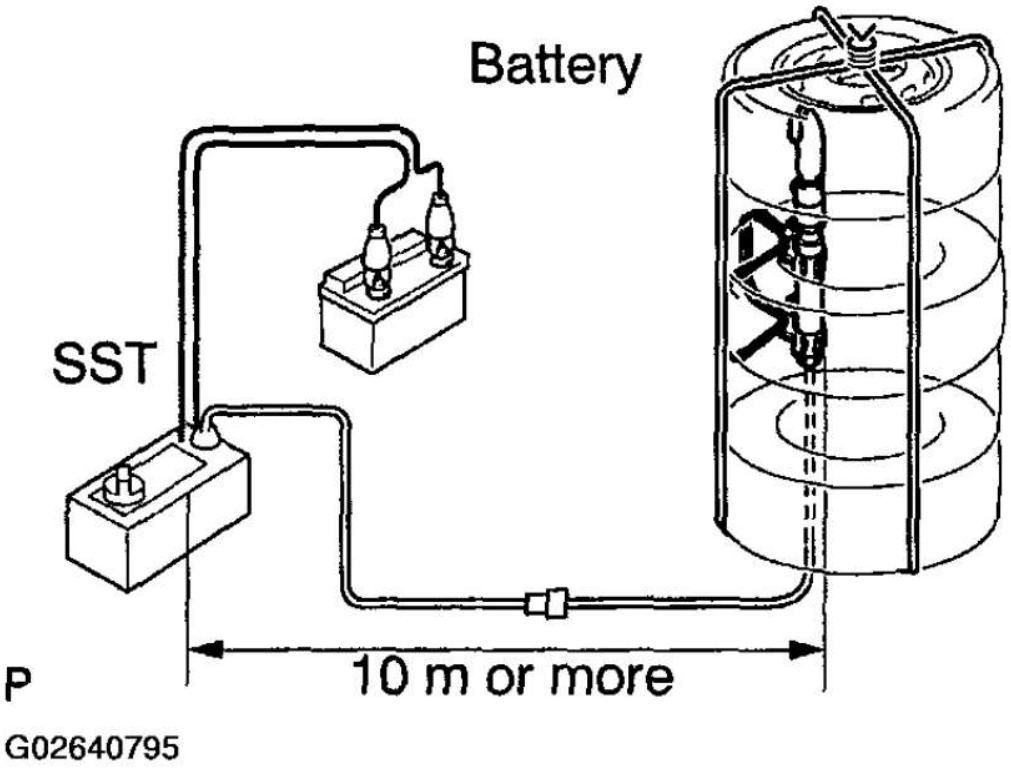


Fig. 129: Connecting Connectors Of SST To Curtain Shield Airbag Assembly Connector
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

SST 09082-00700, 09082-00802

NOTE: To avoid damaging the SST connector and wire harness, do not lock the secondary lock of the twin lock. Also, secure some slack for the SST wire harness inside the tire.

g. Deploy the airbag.
   1. Connect the SST red clip to the battery positive (+) terminal and the black clip to the battery negative (-) terminal.
   2. Check that no one is within 10 m (33 ft) area around the tire which the side airbag assembly is tied to.
   3. Press the SST activation switch and deploy the airbag.

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

HINT:

The airbag deploys simultaneously with the LED of the SST activation switch illuminating.

h. Dispose of the curtain shield airbag assembly.

CAUTION:

- **The curtain shield airbag assembly is very hot when the airb not touch it for at least 30 minutes after deployment.**
- **Use gloves and safety glasses when handling a curtain shie with the deployed airbag.**
- **Do not apply water to a curtain shield airbag assembly with airbag.**
- **Always wash your hands with water after completing the op**
  1. **Remove the curtain shield airbag assembly from the ti**
  2. **Place the curtain shield airbag assembly in a vinyl bag and dispose of it in the same way as other general par**

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

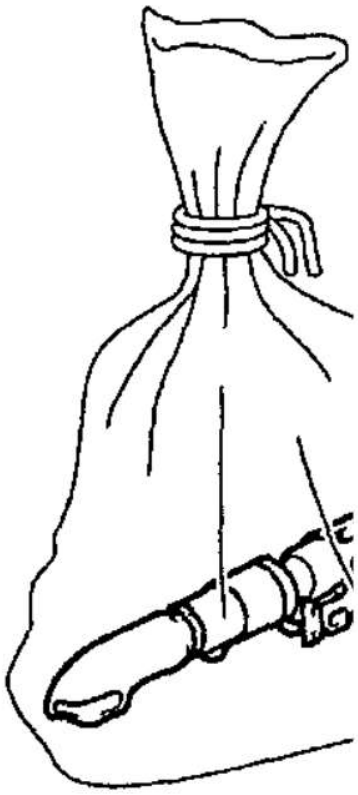


Fig. 130: Placing Curtain Shield Airbag Assembly In Vi
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

3. **DEPLOYMENT WHEN DISPOSING OF SIDE AIRBAG ASSEMBLY WITH AIRBAG DEPLOYED IN COLLISION**

Dispose of the curtain shield airbag assembly.

CAUTION:

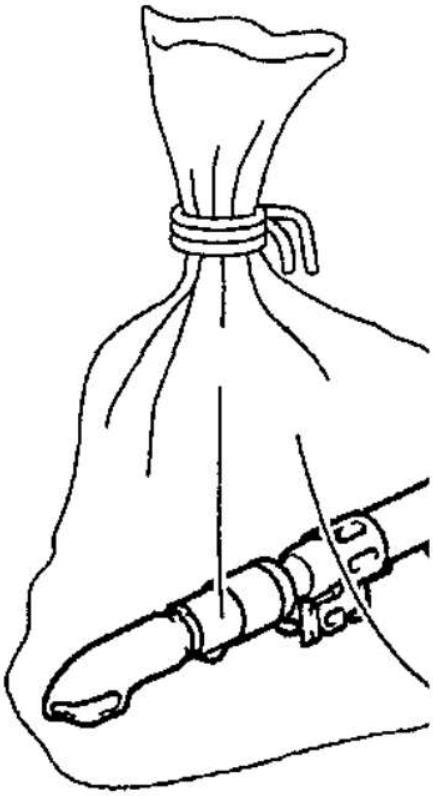
- **The curtain shield airbag assembly is very hot when the airbag is not touch it for at least 30 minutes after deployment.**
- **Use gloves and safety glasses when handling a curtain shield air with the deployed airbag.**
- **Do not apply water to a curtain shield airbag assembly with the d airbag.**

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

- **Always wash your hands with water after completing the operatic**
  1. **Remove the curtain shield airbag assembly (see REMOVAL)**
  2. **Place the curtain shield airbag assembly in a vinyl bag, tie t and dispose of it in the same way as other general parts dis**



P

G02640797

Fig. 131: Placing Curtain Shield Airbag Assembly In Vinyl B
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REPLACEMENT

REPLACEMENT REQUIREMENTS

In the following cases, replace the curtain shield airbag assembly or curtain shield airbag cover.

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

Case	Replacing part
If the curtain shield airbag has been deployed.	Curtain shield airbag assembly
If the curtain shield airbag assembly has been found to be faulty in trouble-shooting.	Curtain shield airbag assembly
If the curtain shield airbag assembly has been found to be faulty during checking items.	Curtain shield airbag assembly
If the front pillar garnish has been found to be faulty during checking items.	Front pillar garnish
If the roof headlining has been found to be faulty during checking items	Roof headlining
If the curtain shield airbag assembly has been dropped.	Curtain shield airbag assembly

G02640798

Fig. 132: Replacement Requirement Description Table
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

CAUTION: For removal and installation of the curtain shield airbag assembly, see REMOVAL and INSTALLATION. Be sure to follow the correct procedure.

INSTALLATION

NOTE: Never use airbag parts from another vehicle. When replacing parts, use new parts.

1. **INSTALL CURTAIN SHIELD AIRBAG BRACKET**

   Install the bracket with the bolt.

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

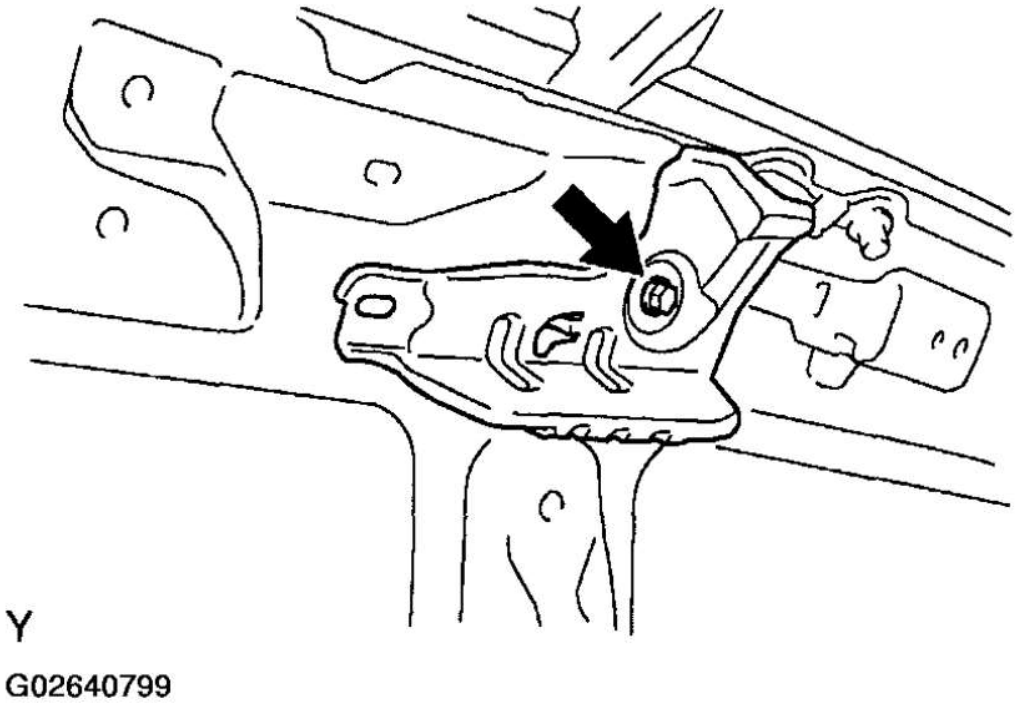


Fig. 133: Installing Curtain Shield Airbag Bracket
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. **INSTALL CURTAIN SHIELD AIRBAG ASSEMBLY**
   a. Connect the connector of the airbag assembly.
   b. In the alphabetical order shown in the illustration, install the airbag assembly.

   Torque: 9.8 N.m (100 kgf.cm, 86 in. lbf)

cardiagn.com

2005 Toyota RAV4
2005 RESTRAINTS Supplemental Restraint System - RAV4

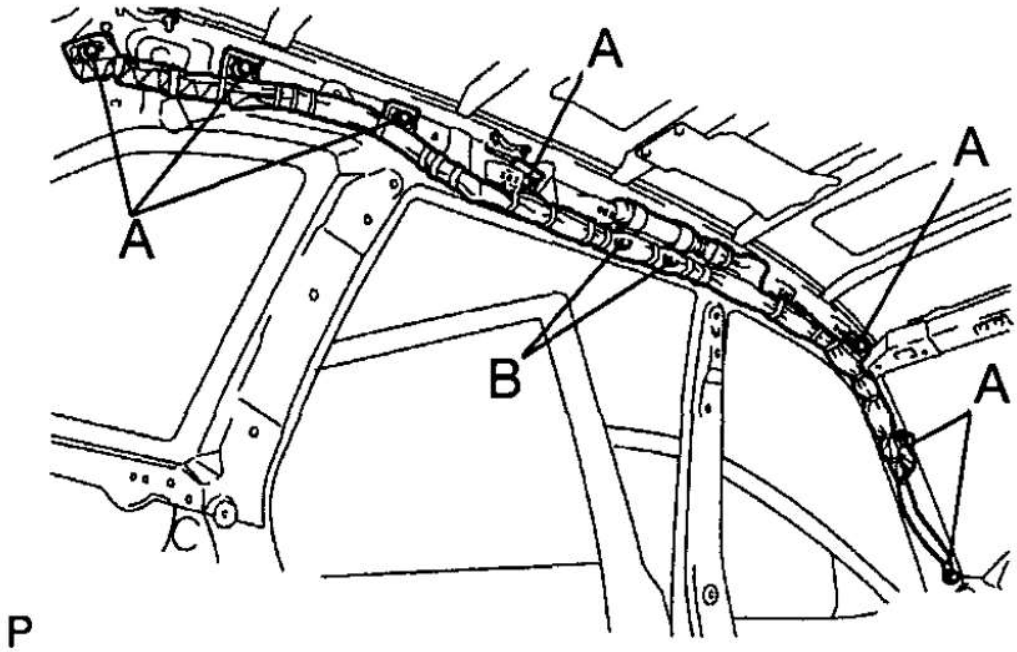


Fig. 134: Installing Curtain Shield Airbag Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

CAUTION: Pay due attention not to twist the deployment section of the airbag assembly.

NOTE:

- **Make sure that the airbag assembly is installed with the specified torque.**
- **If the airbag assembly has been dropped, or there are cracks, dents or other defects in the case or connector, replace the airbag assembly with a new one.**
- **When installing the airbag assembly, take care not to be pinched between other parts.**

3. **INSTALL ROOF HEADLINING (See INSTALLATION)**

AIRBAG SENSOR ASSEMBLY

COMPONENTS

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

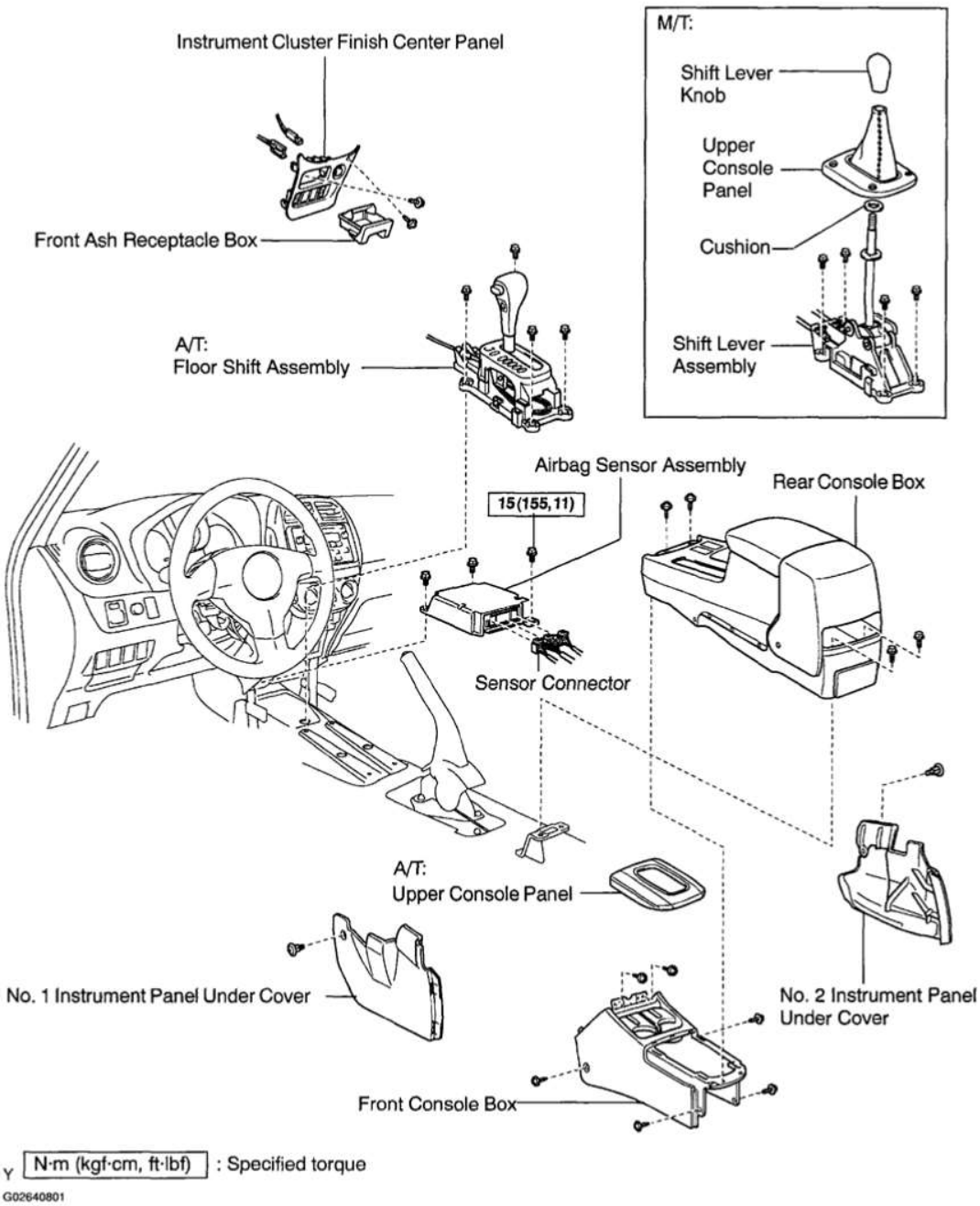


Fig. 135: Identifying Airbag Sensor Assembly Components & Torque Specifications
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

NOTE: **Do not open the cover or the case of the ECU and various electrical devices unless absolutely necessary.**

cardiagn.com

2005 Toyota RAV4
2005 RESTRAINTS Supplemental Restraint System - RAV4

(If the IC terminals are touched, the IC may be destroyed by static electricity).

1. **REMOVE INSTRUMENT CLUSTER FINISH CENTER PANEL**
2. **REMOVE UPPER CONSOLE PANEL**
3. **REMOVE REAR CONSOLE BOX**
4. **REMOVE FRONT CONSOLE BOX**
5. **REMOVE NO. 1 AND NO. 2 INSTRUMENT PANEL UNDER COVERS**
6. **A/T: REMOVE FLOOR SHIFT ASSEMBLY**
7. **M/T: REMOVE SHIFT LEVER ASSEMBLY**
8. **REMOVE AIRBAG SENSOR ASSEMBLY**
   a. Disconnect the airbag sensor connectors.

NOTE: Disconnect the connectors with the airbag sensor assembly installed.

   b. Remove the 3 bolts and the airbag sensor assembly.

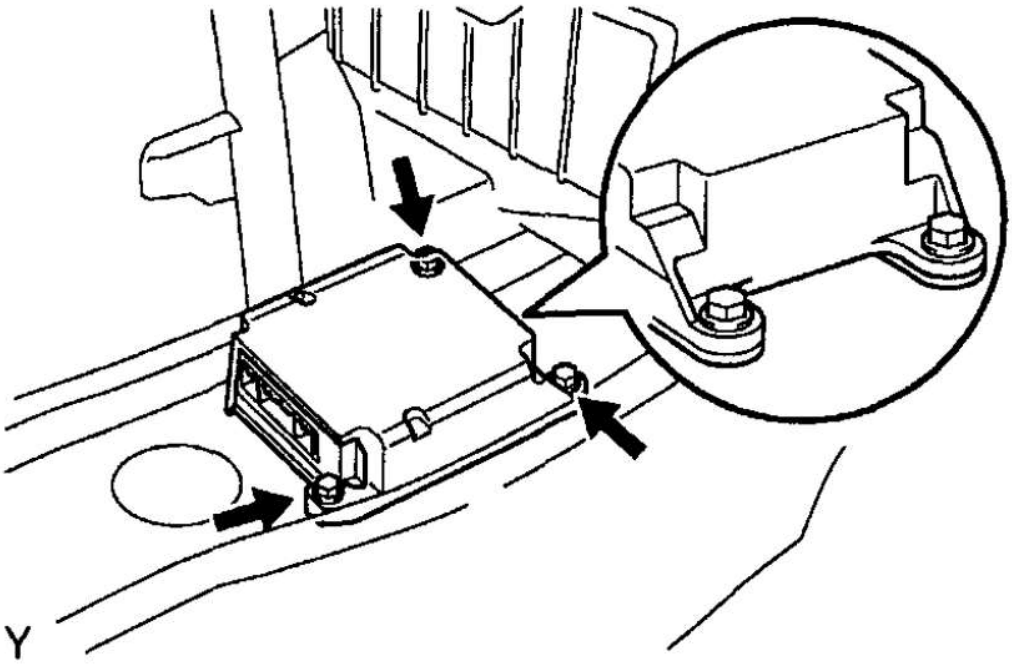


Fig. 136: Removing Airbag Sensor Assembly

cardiagn.com

2005 Toyota RAV4
2005 RESTRAINTS Supplemental Restraint System - RAV4

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSPECTION

1. **VEHICLE NOT INVOLVED IN COLLISION**

   Check a diagnostic system (see **PRE-CHECK**).

2. **VEHICLE INVOLVED IN COLLISION WITH AIRBAG NOT DEPLOYED**

   Check a diagnostic system (see **PRE-CHECK**).

3. **VEHICLE INVOLVED IN COLLISION WITH AIRBAG DEPLOYED**

   Replace the airbag sensor assembly (see **REPLACEMENT**).

REPLACEMENT

REPLACEMENT REQUIREMENTS

In the following cases, replace the airbag sensor assembly.

- If the SRS has been deployed in a collision.
- If the airbag sensor assembly has been found to be faulty in troubleshooting.
- If the airbag sensor assembly has been dropped.

CAUTION: For REMOVAL and INSTALLATION of the airbag sensor assembly, see REMOVAL and INSTALLATION. Be sure to follow the correct procedure.

INSTALLATION

NOTE:

- **Never use SRS parts from another vehicle. When replacing parts, replace them with new ones.**
- **Never reuse the airbag sensor assembly involved in a collision with the airbag has deployed.**
- **Never repair a sensor in order to reuse it.**

1. **INSTALL AIRBAG SENSOR ASSEMBLY**
   a. Install the airbag sensor assembly with the 3 bolts.

   Torque: 15 N.m (155 kgf.cm, 11 ft.lbf)

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

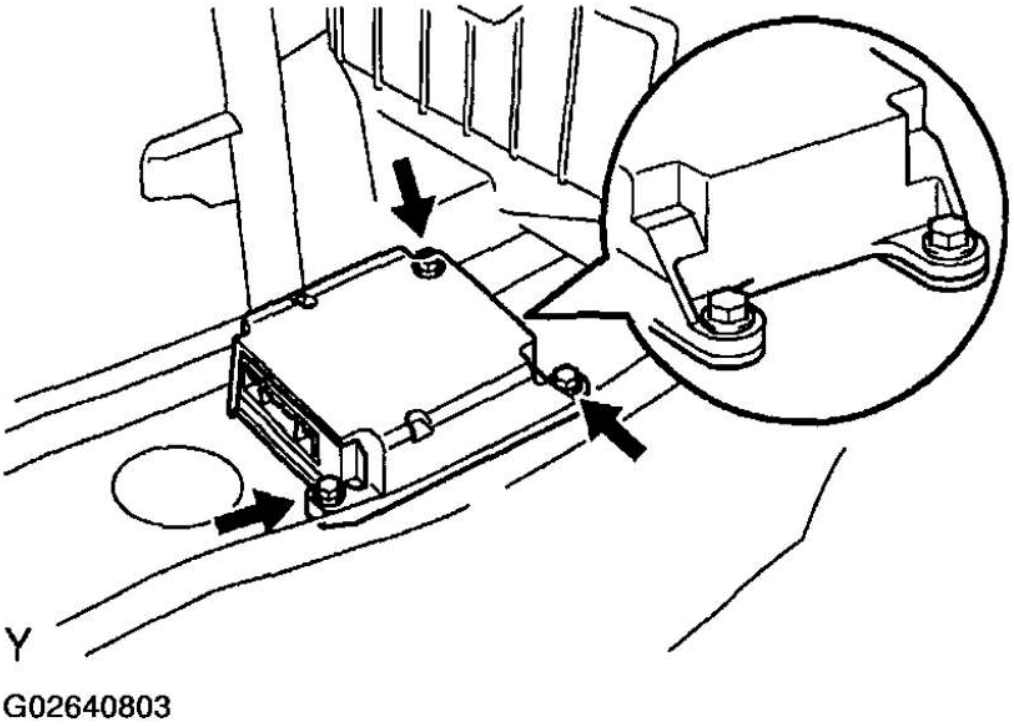


Fig. 137: Installing Airbag Sensor Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

b. Connect the airbag sensor connectors.

NOTE:

- **Connection of the connector is done after the sensor assembly has been installed.**
- **Make sure the sensor assembly is installed with the specified torque.**
- **If the sensor assembly has been dropped, or there are cracks, dents or other defects in the case, bracket or connector, replace the sensor assembly with a new one.**
- **When installing the senor assembly, take care that the SRS wiring does not interfere with other parts and is not pinched between other parts.**
- **After installing, shake the sensor assembly to check for looseness.**

2. **A/T: INSTALL FLOOR SHIFT ASSEMBLY**

cardiagn.com

2005 Toyota RAV4
2005 RESTRAINTS Supplemental Restraint System - RAV4

3. **M/T: INSTALL SHIFT LEVER ASSEMBLY**
4. **INSTALL NO. 1 AND NO. 2 INSTRUMENT PANEL UNDER COVERS**
5. **INSTALL FRONT CONSOLE BOX**
6. **INSTALL REAR CONSOLE BOX**
7. **INSTALL UPPER CONSOLE PANEL**
8. **INSTALL INSTRUMENT CLUSTER FINISH CENTER PANEL**

FRONT AIRBAG SENSOR

COMPONENTS

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

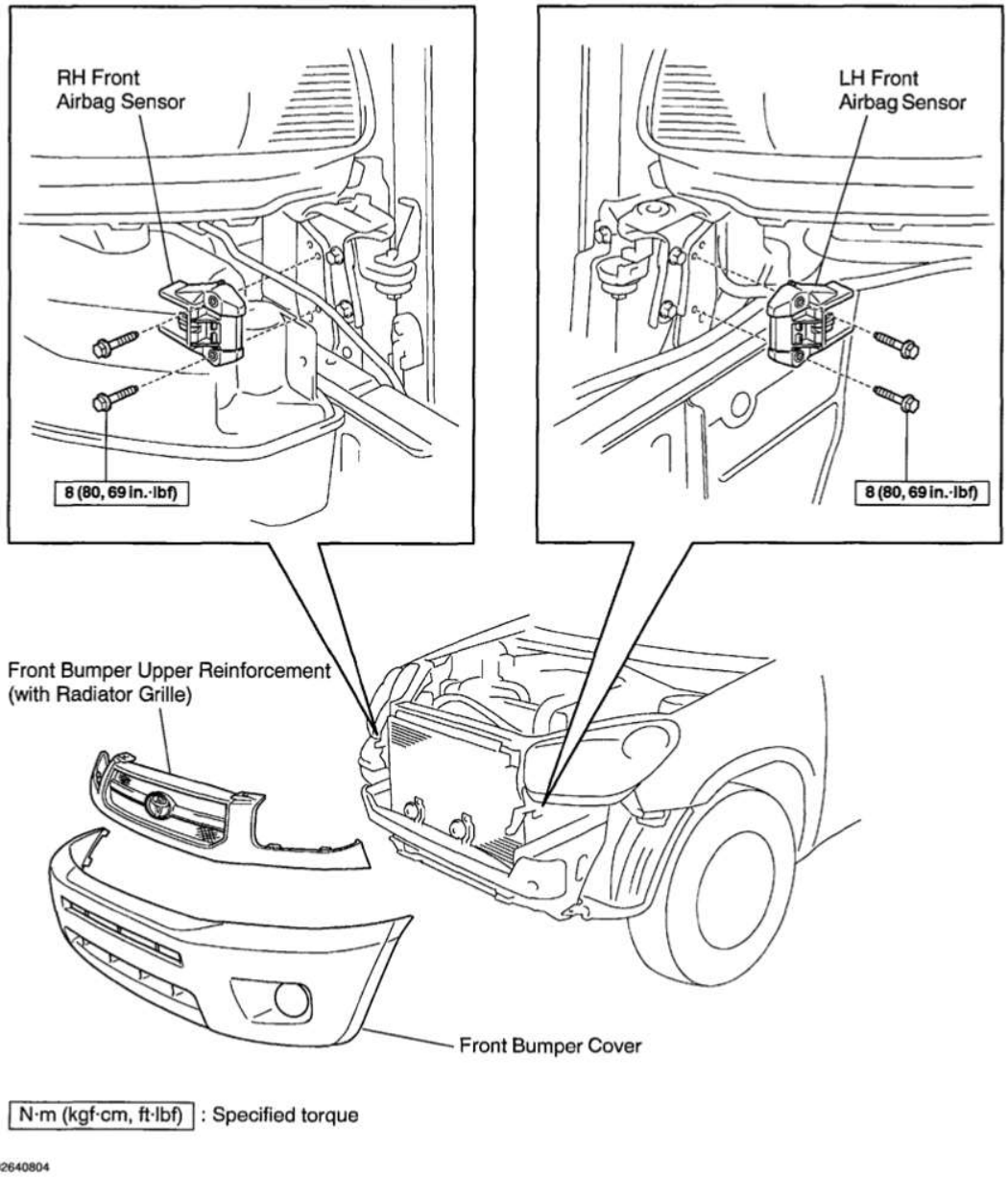


Fig. 138: Identifying Front Airbag Sensor Components & Torque Specifications
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

NOTE:

- **If the wiring connector of the SRS is disconnected with the ignition switch in the ON position, DTCs will be recorded.**
- **Never use SRS parts from another vehicle. When replacing parts, use new parts.**

cardiagn.com

2005 Toyota RAV4
2005 RESTRAINTS Supplemental Restraint System - RAV4

- **Never reuse the sensor involved in a collision with the SRS deployed.**
- **Never repair a sensor in order to reuse it.**

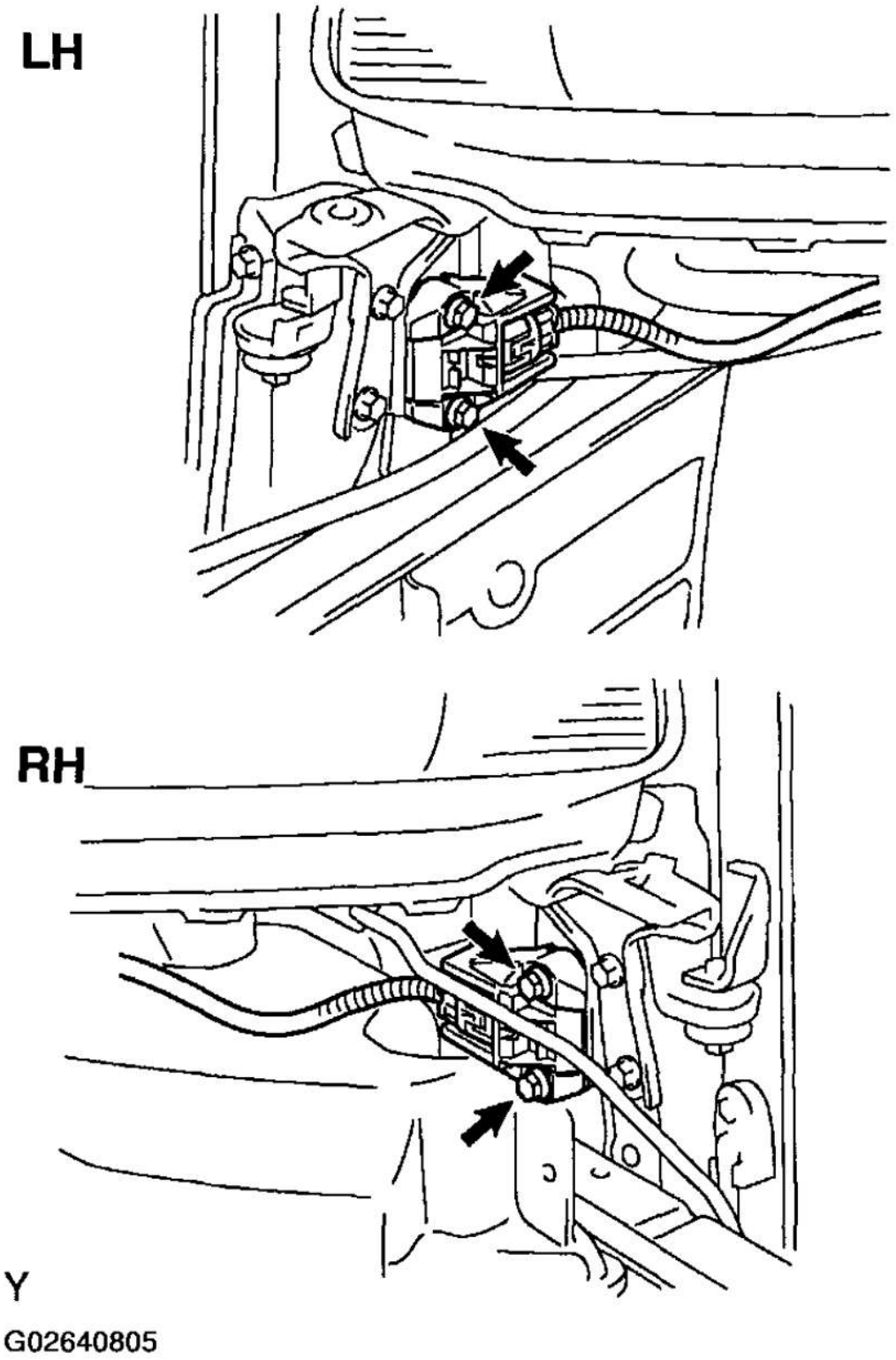
1. **REMOVE FRONT BUMPER UPPER REINFORCEMENT (See COMPONENTS)**
2. **REMOVE FRONT BUMPER (See COMPONENTS)**
3. **REMOVE FRONT AIRBAG SENSORS**
   a. Disconnect the front airbag sensor connector.

NOTE: Disconnect the connector with sensor assembly installed.

   b. Remove the 2 bolts and front airbag sensor.
   c. Remove the LH and RH sensors.

cardiagn.com

2005 Toyota RAV4
2005 RESTRAINTS Supplemental Restraint System - RAV4



cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

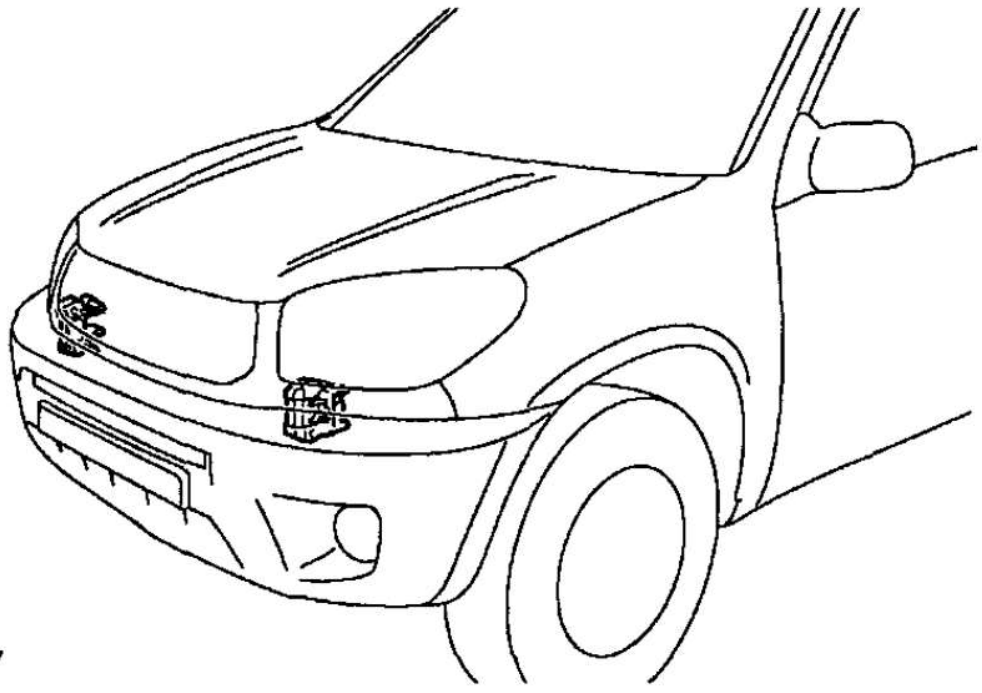
Fig. 139: Removing LH & RH Front Airbag Sensor
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSPECTION

1. **Vehicle not involved in collision: INSPECT SUPPLEMENTAL RESTRAINT SYSTEM**

   Check the diagnostic system (see **PRE-CHECK**).

2. **Vehicle involved in collision: INSPECT SUPPLEMENTAL RESTRAINT SYSTEM**
   a. Check the diagnostic system (see **PRE-CHECK**).
   b. If the front fender of the vehicle or its periphery is damaged, visually check for damage to the front airbag sensor, which includes the following items even if the airbag was not deployed:
      - Bracket deformation
      - Paint peeling off the bracket
      - Cracks, dents or chips in the case
      - Cracks, dents, chips and scratches in the connector
      - Peel-off of the label or damage to the serial number



G02640806

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

Fig. 140: Checking Front Airbag Sensor For Damage
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REPLACEMENT

REPLACEMENT REQUIREMENTS

In the following cases, replace the front airbag sensor.

- If the SRS has been deployed in a collision. (Replace both the left and right airbag sensors.)
- If the front airbag sensor has been found to be faulty in troubleshooting.
- If the front airbag sensor has been found to be faulty during checking (see **INSPECTION**).
- If the front airbag sensor has been dropped.

CAUTION: For removal and installation of the front airbag sensor, see REMOVAL and INSTALLATION. Be sure to follow the correct procedure.

INSTALLATION

1. **INSTALL FRONT AIRBAG SENSORS**
   a. Install the front airbag sensor with the 2 bolts.

      Torque: 8 N.m (80 kgf.cm, 69 in.lbf)

   b. Connect the front airbag sensor connector.

      NOTE:
      - **The connector will be connected after the sensor assembly is installed.**
      - **Make sure the sensor is installed with the specified torque.**
      - **If the sensor has been dropped, or there are cracks, dents or other defects in the case, brackets or connector, replace the removed sensor with a new one.**
      - **The front sensor is equipped with an electrical connection check mechanism. Be sure to lock this mechanism securely when connecting the connector. If the connector is not securely locked, a malfunction code will be detected by the diagnostic system.**

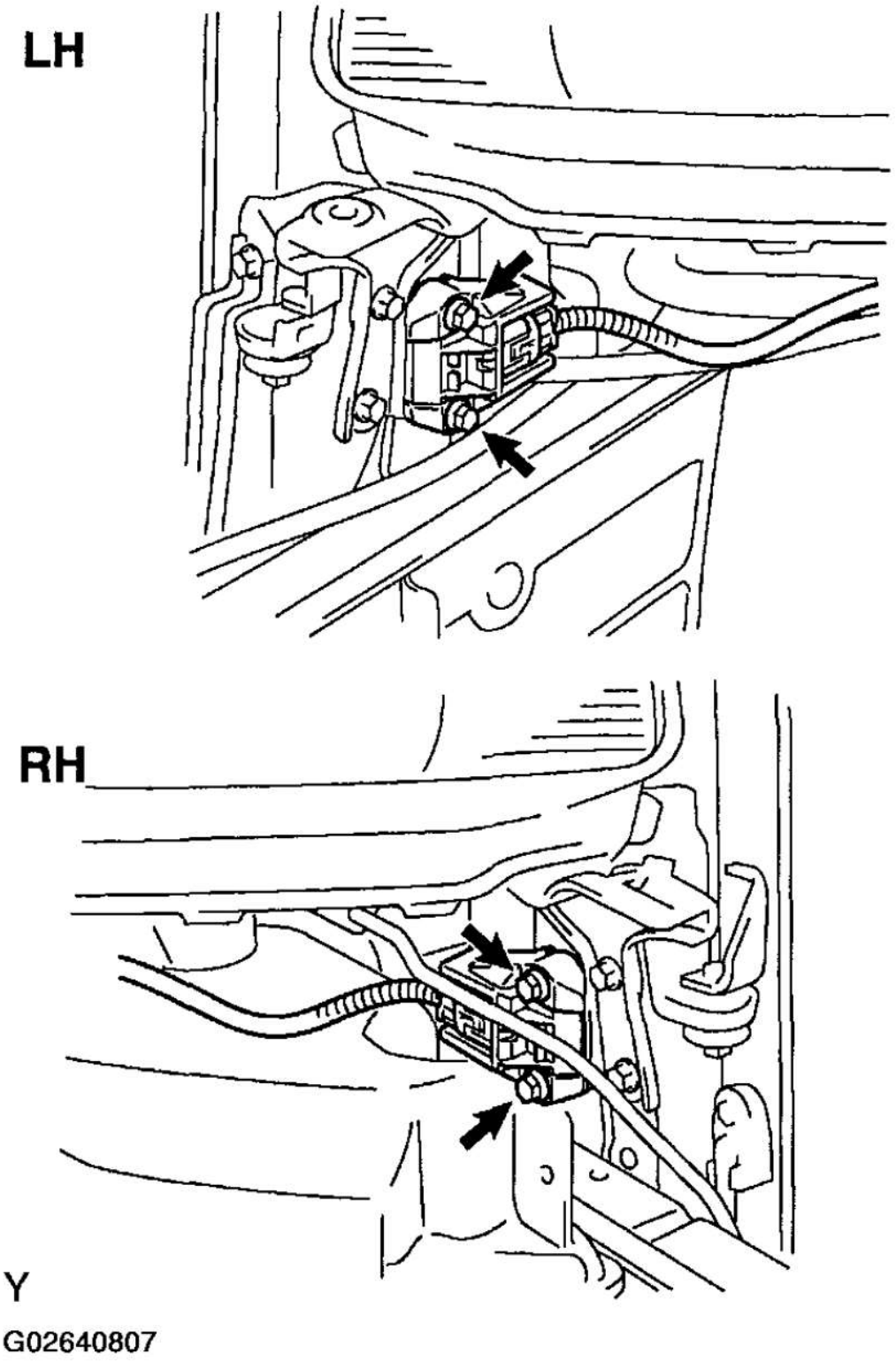
   c. Install the LH and RH sensors.

      HINT:

      Install the front airbag sensor with the arrow on the sensor facing toward the front of the vehicle.

cardiagn.com

2005 Toyota RAV4
2005 RESTRAINTS Supplemental Restraint System - RAV4



cardiagn.com

Fig. 141: Installing Front Airbag Sensor
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. **INSTALL FRONT BUMPER (See COMPONENTS)**
3. **INSTALL FRONT BUMPER UPPER REINFORCEMENT (See COMPONENTS)**

SIDE AND CURTAIN SHIELD AIRBAG SENSOR ASSEMBLY

COMPONENTS

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

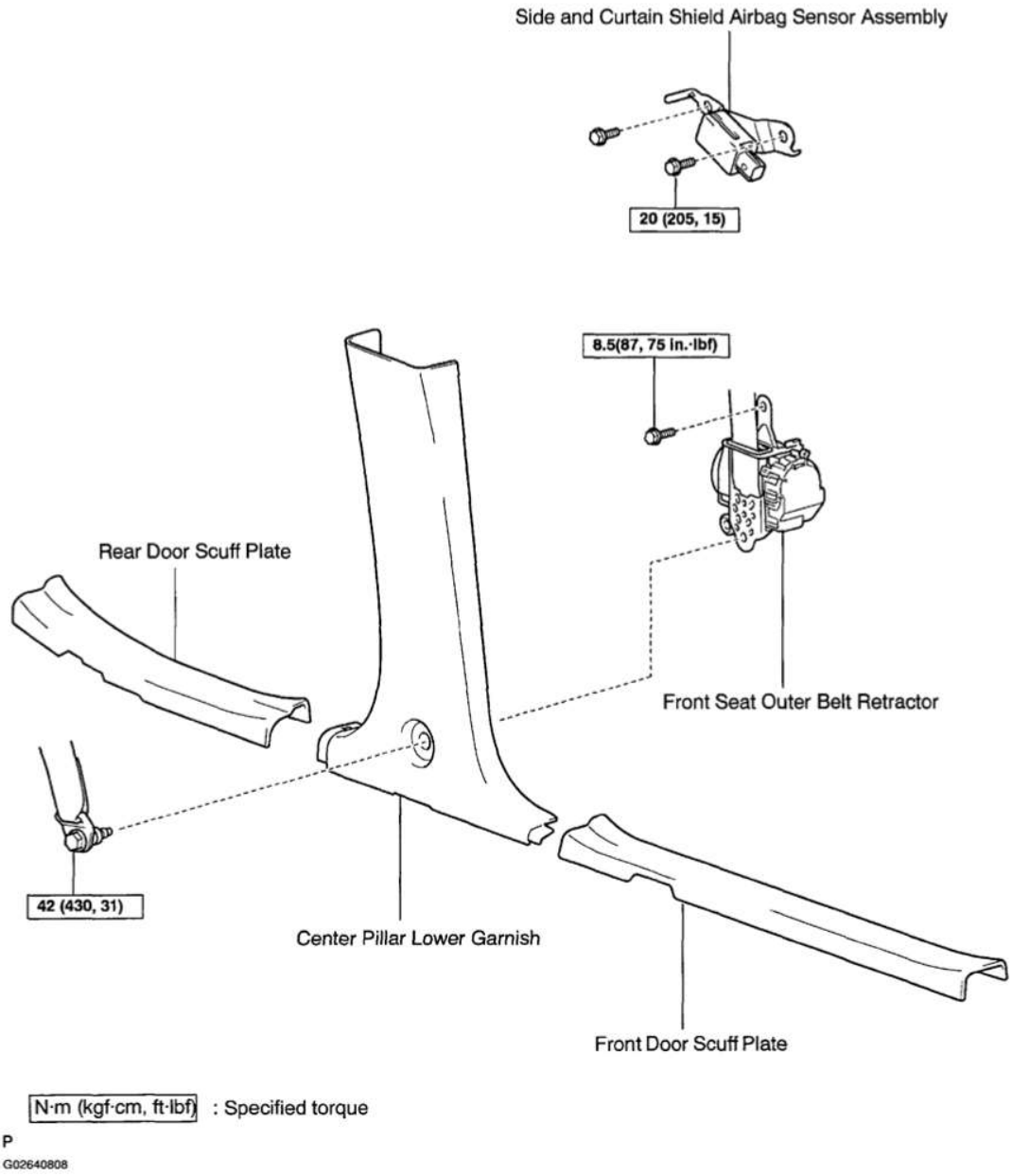


Fig. 142: Identifying Side & Curtain Shield Airbag Sensor Assembly Components & Torque Specifications
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

NOTE:

- **Do not open the cover or the case of the ECU and various electrical devices unless absolutely necessary. (If the IC terminals are touched, the IC may be destroyed by static electricity).**

cardiagn.com

2005 Toyota RAV4
2005 RESTRAINTS Supplemental Restraint System - RAV4

- **If the wiring connector of the SRS is disconnected with the ignition switch in the ON position, DTCs will be recorded.**

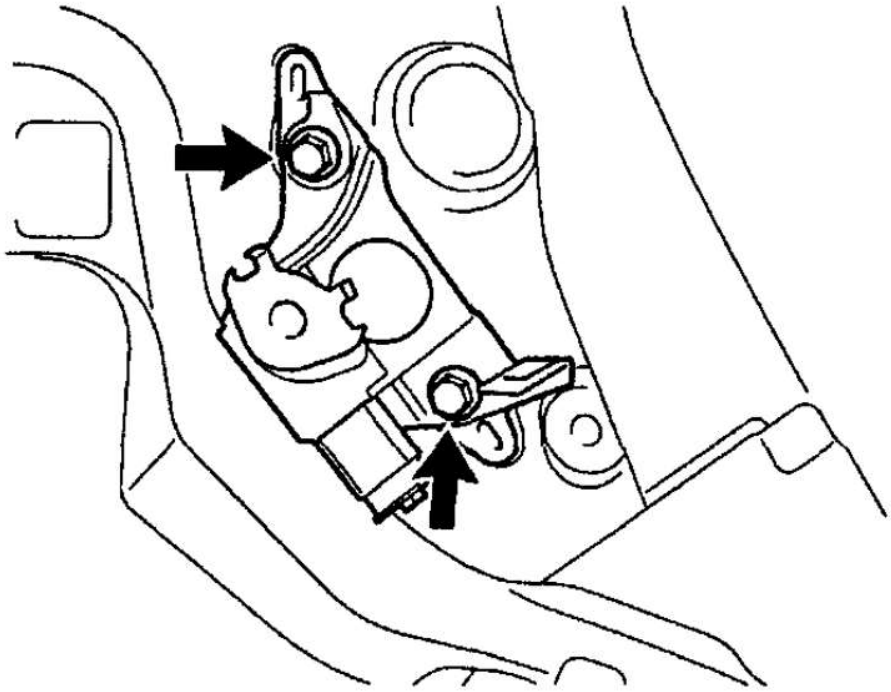
HINT:

For steps 1 to 3, refer to **REMOVAL** .

1. **REMOVE REAR DOOR SCUFF PLATE**
2. **REMOVE FRONT DOOR SCUFF PLATE**
3. **REMOVE CENTER PILLAR LOWER GARNISH**
4. **REMOVE RETRACTOR OF FRONT SEAT OUTER BELT (See COMPONENTS)**
5. **REMOVE SIDE AND CURTAIN SHIELD AIRBAG SENSOR ASSEMBLY**
   a. Disconnect the connector.

NOTE: Disconnect the connector with the sensor assembly installed.

   b. Remove the 2 bolts and the side and curtain shield airbag sensor assembly.



P

G02640809

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

Fig. 143: Removing Side & Curtain Shield Airbag Sensor Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSPECTION

1. **Vehicle not involved in collision: INSPECT SUPPLEMENTAL RESTRAINT SYSTEM**

   Check the diagnostic system (see **PRE-CHECK**).

2. **Vehicle involved in collision and airbag not deployed: INSPECT SUPPLEMENTAL RESTRAINT SYSTEM**

   Check the diagnostic system (see **PRE-CHECK**).

3. **Vehicle involved in collision and airbag deployed: INSPECT SUPPLEMENTAL RESTRAINT SYSTEM**

   Replace the side and curtain shield airbag sensor assembly (see **REPLACEMENT**).

REPLACEMENT

REPLACEMENT REQUIREMENTS

In the following cases, replace the side and curtain shield airbag sensor assembly.

- If the side curtain shield airbag assembly has been deployed in a collision.
- If the side curtain shield airbag sensor assembly has been found to be faulty in troubleshooting.
- If the side curtain shield airbag sensor assembly has been dropped.

CAUTION: For removal and installation of the side and curtain shield airbag sensor assembly, see REMOVAL and INSTALLATION. Be sure to follow the correct procedure.

INSTALLATION

NOTE:

- **Never use SRS parts from another vehicle. When replacing parts, use new parts.**
- **Never reuse the side and curtain shield airbag sensor assembly involved in a collision when the airbag has deployed.**
- **Never repair a sensor in order to reuse it.**

HINT:

For steps 3 to 5, refer to **INSTALLATION** .

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

1. **INSTALL SIDE AND CURTAIN SHIELD AIRBAG SENSOR**
   a. Install the side and curtain shield airbag assembly with the 3 bolts.

   Torque: 20 N.m (205 kgf.cm, 15 ft.lbf)

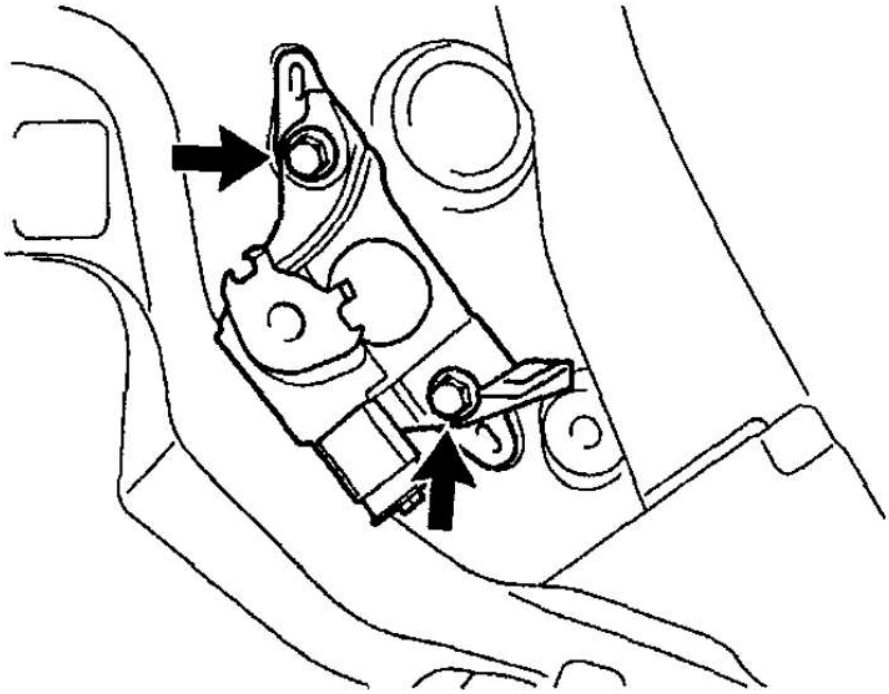


Fig. 144: Installing Side & Curtain Shield Airbag Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

   b. Connect the connector.

NOTE:

- **Connection of the connector will be completed after the sensor assembly is installed.**
- **Make sure the sensor assembly is installed with the specified torque.**
- **If the sensor assembly has been dropped, or there are cracks, dents or other defects in the case, bracket or connector, replace the sensor assembly with a new one.**
- **When installing the sensor assembly, take care that the SRS**

cardiagn.com

wiring does not interfere with other parts and is not pinched between other parts.

- After installation, shake the sensor assembly to check that there is no looseness.

2. **INSTALL RETRACTOR OF FRONT SEAT OUTER BELT (See COMPONENTS)**

   Torque:

   Upper bolt: 8.5 N.m (87 kgf.cm, 75 in.lbf)

   Lower bolt: 42 N.m (430 kgf.cm, 31 ft.lbf)

3. **INSTALL CENTER PILLAR LOWER GARNISH**
4. **INSTALL FRONT DOOR SCUFF PLATE**
5. **INSTALL REAR DOOR SCUFF PLATE**

CURTAIN SHIELD AIRBAG SENSOR ASSEMBLY

COMPONENTS

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

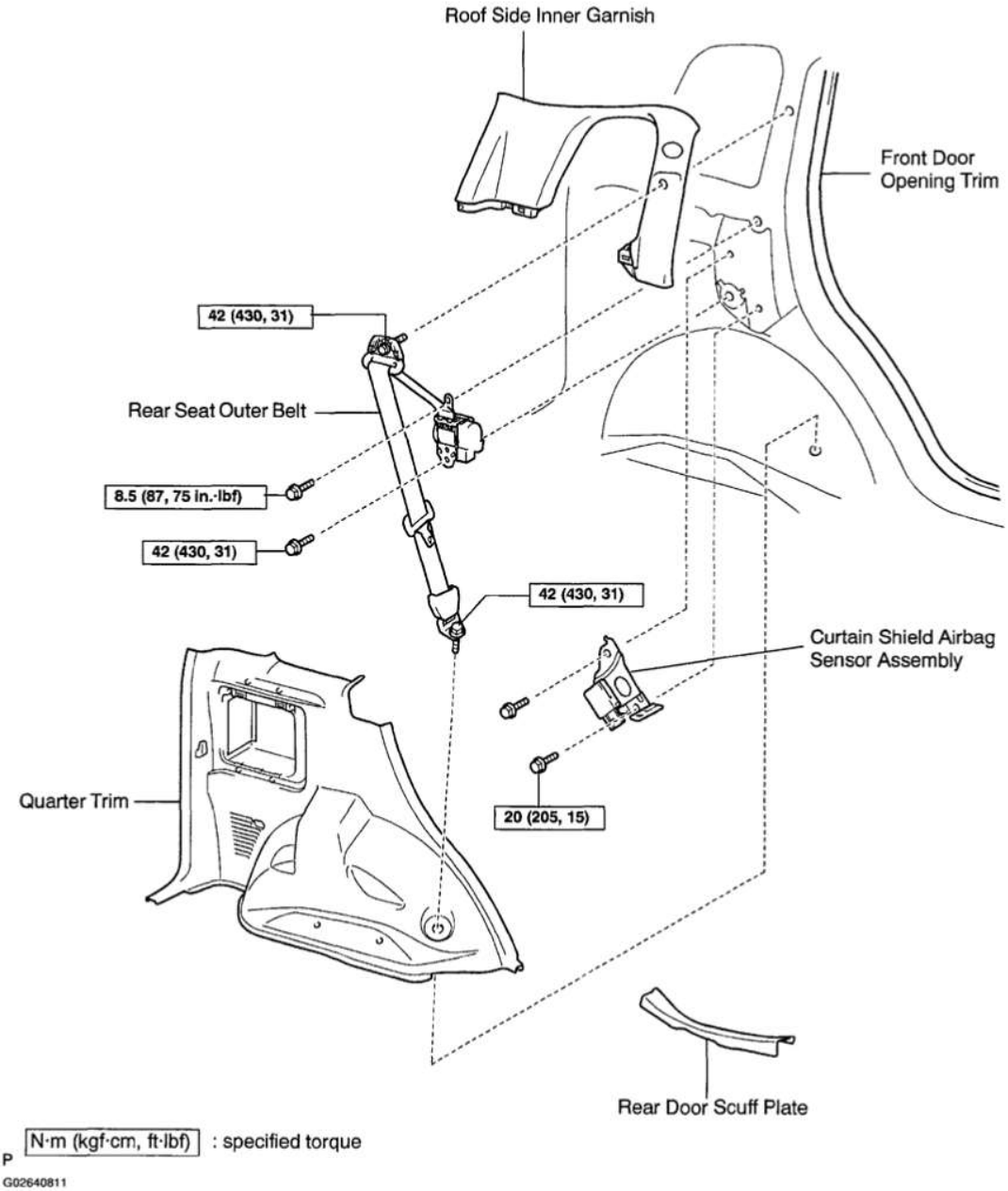


Fig. 145: Identifying Curtain Shield Airbag Sensor Assembly Components & Torque Specifications
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

NOTE:

- **Do not open the cover or the case of the ECU and various electrical devices unless absolutely necessary. (If the IC terminals are touched, the IC may be destroyed by static electricity.)**

cardiagn.com

2005 Toyota RAV4
2005 RESTRAINTS Supplemental Restraint System - RAV4

- **If the wiring connector of the SRS is disconnected with the ignition switch in the ON position, DTCs will be recorded.**

HINT:

For the steps 2 to 4, refer to **REMOVAL** .

1. **REMOVE REAR SEAT CUSHION AND REAR SEATBACK (See REMOVAL)**
2. **REMOVE REAR DOOR SCUFF PLATE**
3. **REMOVE REAR DOOR OPENING TRIM**
4. **REMOVE REAR SEAT SIDE GARNISH**
5. **REMOVE CURTAIN SHIELD AIRBAG SENSOR ASSEMBLY**
   a. Disconnect the connector.

      NOTE: Disconnect the connector with the sensor assembly installed.

   b. Remove the 2 bolts, nut and curtain shield airbag sensor assembly.

cardiagn.com

2005 Toyota RAV4
2005 RESTRAINTS Supplemental Restraint System - RAV4

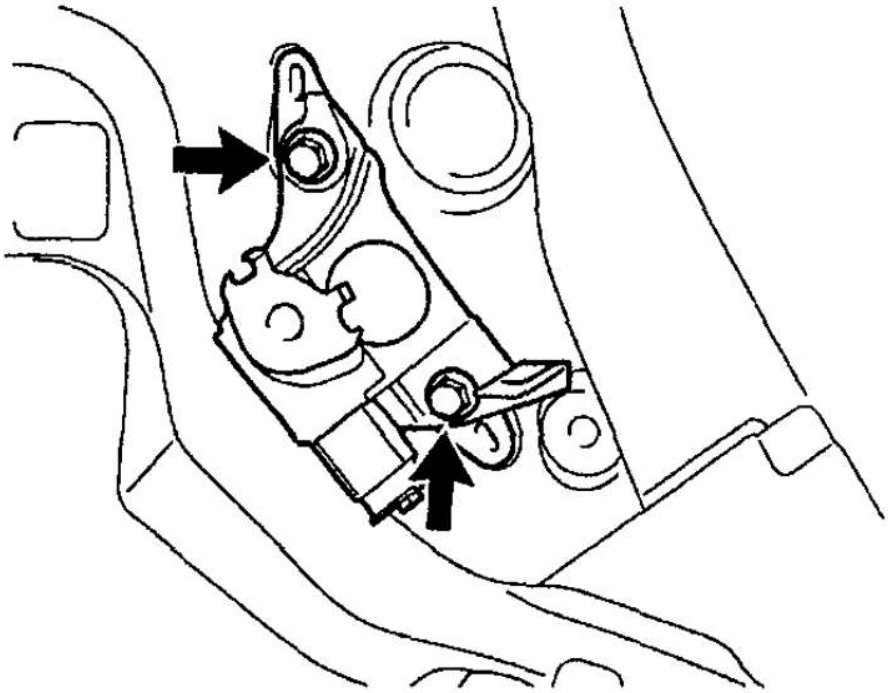


Fig. 146: Removing Curtain Shield Airbag Sensor Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

cardiagn.com

INSPECTION

1. **Vehicles not involved in collision: INSPECT SUPPLEMENTAL RESTRAINT SYSTEM**

   Check the diagnostic system (see **PRE-CHECK**).

2. **Vehicle involved in collision and airbag not deployed: INSPECT SUPPLEMENTAL RESTRAINT SYSTEM**

   Check the diagnostic system (see **PRE-CHECK**).

3. **Vehicle involved in collision and airbag deployed:**

   Replace the curtain shield airbag sensor assembly (see **REPLACEMENT**).

REPLACEMENT

2005 Toyota RAV4
2005 RESTRAINTS Supplemental Restraint System - RAV4

REPLACEMENT REQUIREMENTS

In the following cases, replace the curtain shield airbag sensor assembly.

- If the curtain shield airbag sensor assembly has been deployed in a collision.
- If the curtain shield airbag sensor assembly has been found to be faulty in troubleshooting.
- If the curtain shield airbag sensor assembly has been dropped.

CAUTION: For removal and installation of the curtain shield airbag sensor assembly, see REMOVAL and INSTALLATION. Be sure to follow the correct procedure.

INSTALLATION

NOTE:

- **Never use SRS parts from another vehicle. When replacing parts, use new parts.**
- **Never reuse the curtain shield airbag sensor assembly involved in a collision when the airbag has deployed.**
- **Never repair a sensor in order to reuse it.**

HINT:

For steps 2 to 4, refer to **INSTALLATION** .

1. **INSTALL CURTAIN SHIELD AIRBAG SENSOR ASSEMBLY**
   a. Install the curtain shield airbag sensor assembly with the bolt and nut.

      Torque: 20 N.m (205 kgf.cm, 15 ft.lbf)

   b. Connect the connector.

NOTE:

- **Connection of the connector will be completed after the sensor assemt is installed.**
- **Make sure the sensor assembly is installed with the specified torque.**
- **If the sensor assembly has been dropped, or there are cracks, dents or other defects in the case, bracket or connector, replace the sensor assembly with a new one.**
- **When installing the sensor assembly, take care that the SRS wiring doe not interfere with other parts and is not pinched between other parts.**
- **After installation, shake the sensor assembly to check that there is no looseness.**

cardiagn.com

2005 Toyota RAV4
2005 RESTRAINTS Supplemental Restraint System - RAV4

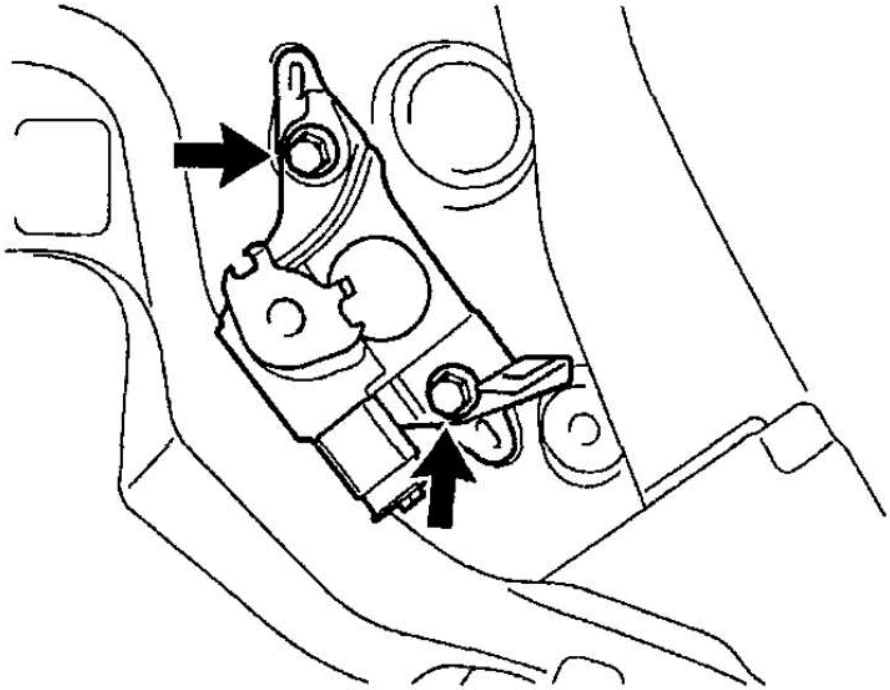


Fig. 147: Installing Curtain Shield Airbag Sensor Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. **INSTALL REAR SEAT SIDE GARNISH**
3. **INSTALL REAR DOOR OPENING TRIM**
4. **INSTALL REAR DOOR SCUFF PLATE**
5. **INSTALL REAR SEATBACK AND REAR SEAT CUSHION (See INSTALLATION)**

SEAT POSITION SENSOR ASSEMBLY

COMPONENTS

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

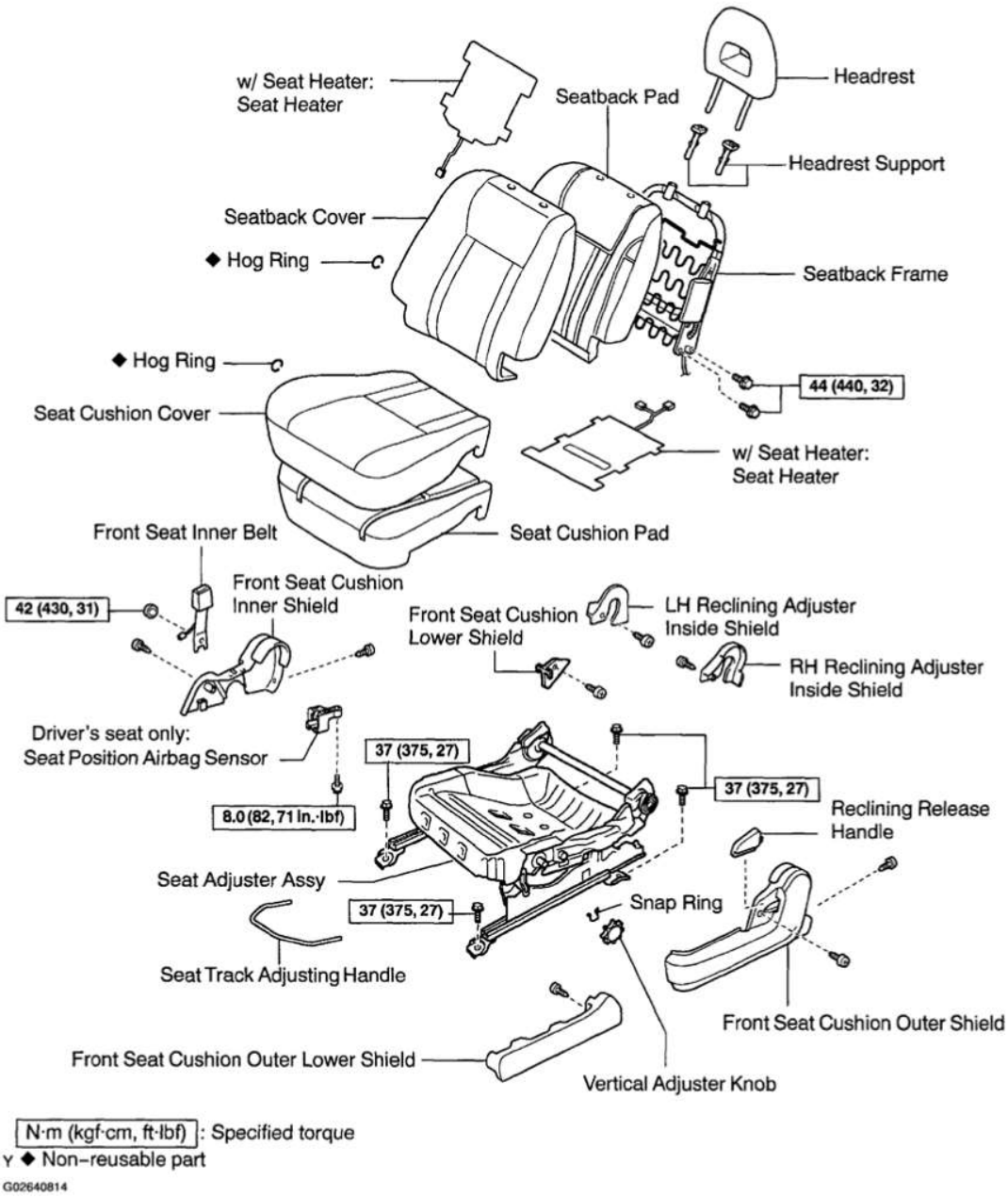


Fig. 148: Identifying Front Seat Assembly Components & Torque Specifications
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

NOTE:

- **Do not open the cover or the case of the ECU and various electrical devices unless absolutely necessary. (If the IC terminals are touched, the IC may be destroyed by static electricity.)**

cardiagn.com

2005 Toyota RAV4
2005 RESTRAINTS Supplemental Restraint System - RAV4

- **If the wiring connector of the SRS is disconnected with the ignition switch in the ON position, DTCs will be recorded.**

HINT:

For step 1, refer to **REMOVAL** .

1. **REMOVE FRONT SEAT ASSEMBLY (DRIVER SIDE)**
2. **REMOVE SEAT POSITION SENSOR ASSEMBLY**
   a. Remove the bolt and sensor assembly.
   b. Disconnect the connector.

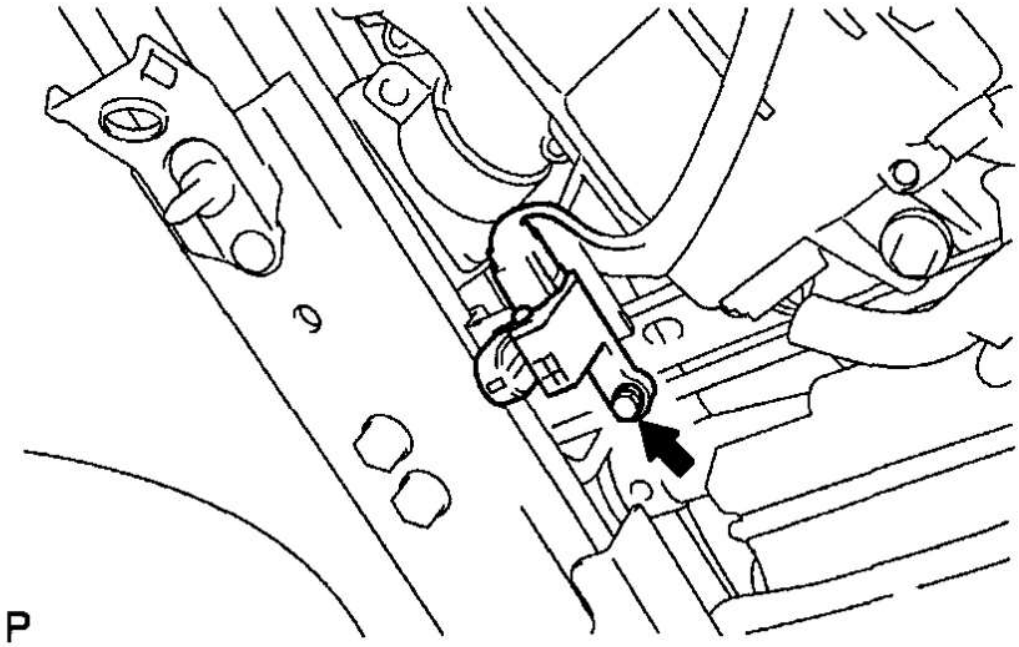


Fig. 149: Removing Seat Position Sensor Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSPECTION

1. **Vehicles not involved in collision: INSPECT SUPPLEMENTAL RESTRAINT SYSTEM**

   Check the diagnostic system (see **PRE-CHECK**).

cardiagn.com

2. **Vehicle involved in collision and airbag not deployed: INSPECT SUPPLEMENTAL RESTRAINT SYSTEM**

   Check the diagnostic system (see **PRE-CHECK**).

3. **Vehicle involved in collision and airbag deployed:**

   Replace the seat position sensor assembly (see **SEAT POSITION SENSOR ASSEMBLY**).

REPLACEMENT

REPLACEMENT REQUIREMENTS

In the following cases, replace the seat position sensor assembly.

- If the seat position sensor assembly has been found to be faulty in troubleshooting.
- If the seat position sensor assembly has been dropped.

CAUTION: For removal and installation of the seat position sensor assembly, see REMOVAL and INSTALLATION. Be sure to follow the correct procedure.

INSTALLATION

NOTE:

- **Never use SRS parts from another vehicle. When replacing parts, use new parts.**
- **Never reuse the seat position sensor assembly involved in a collision when the airbag has deployed.**
- **Never repair a sensor in order to reuse it.**

HINT:

For step 2, refer to **INSTALLATION** .

1. **INSTALL SEAT POSITION SENSOR ASSEMBLY**
   a. Connect the connector.
   b. Install the seat position sensor assembly with the bolt.

   Torque: 8.0 N.m (82 kgf.cm, 71 in.lbf)

NOTE:

- **Connection of the connector will be completed after the sensor assemt is installed.**
- **Make sure the sensor assembly is installed with the specified torque.**
- **If the sensor assembly has been dropped, or there are cracks, dents or**

cardiagn.com

other defects in the case, bracket or connector, replace the sensor assembly with a new one.

- When installing the sensor assembly, take care that the SRS wiring doe not interfere with other parts and is not pinched between other parts.
- After installation, shake the sensor assembly to check that there is no looseness.

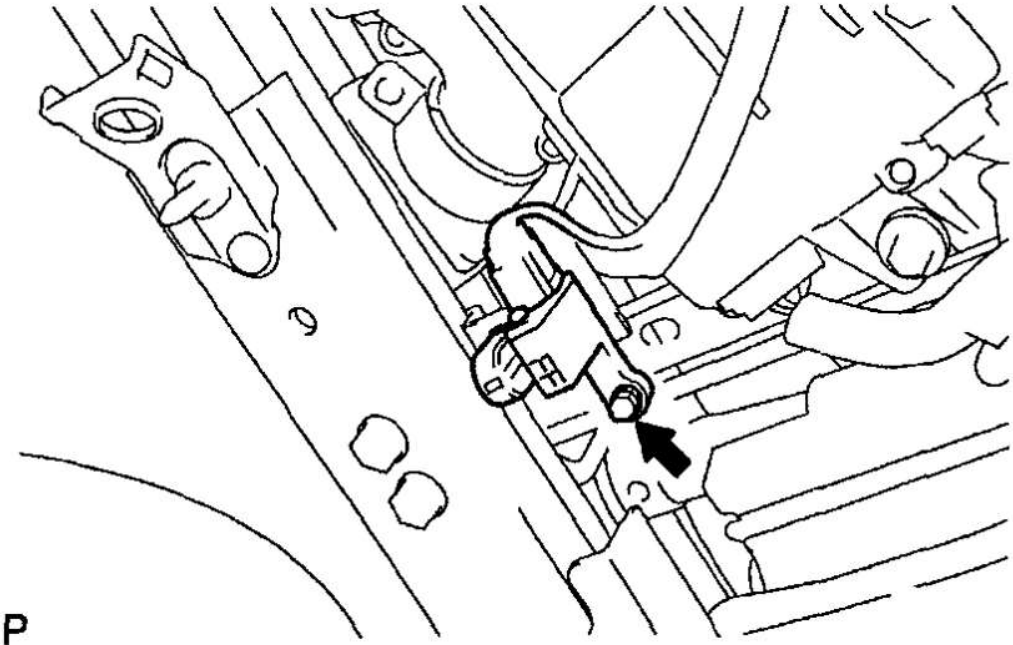


Fig. 150: Installing Seat Position Sensor Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. INSTALL FRONT SEAT ASSEMBLY

WIRE HARNESS AND CONNECTOR

LOCATION

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

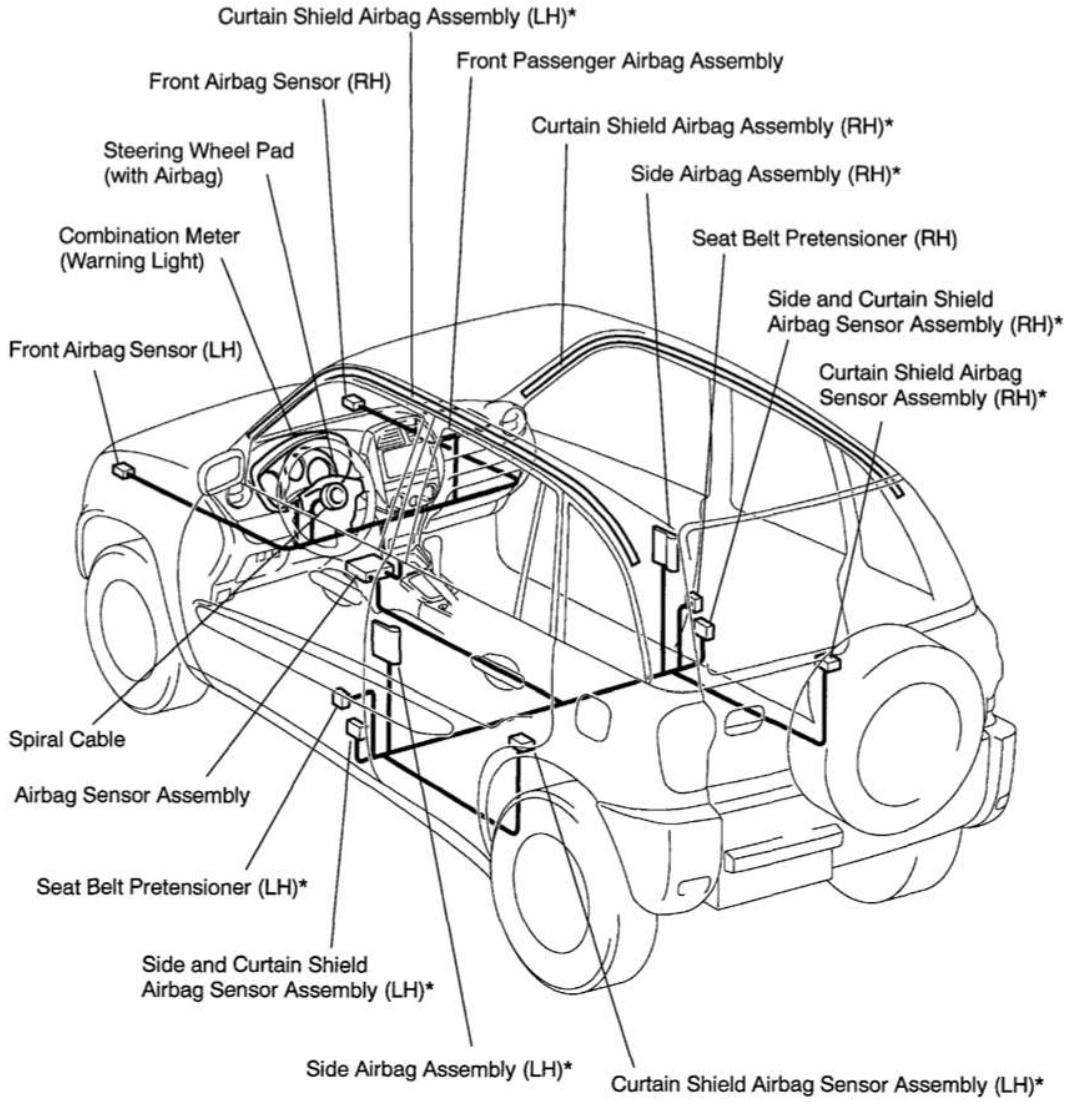


Fig. 151: Identifying Wire Harness Routing & Component Connector Locations
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSPECTION

HINT:

cardiagn.com

2005 Toyota RAV4

2005 RESTRAINTS Supplemental Restraint System - RAV4

The SRS wire harness is integrated with the instrument panel wire harness assembly. All the connectors in the system are colored in yellow.

1. **VEHICLES NOT INVOLVED IN A COLLISION**

   Check the diagnostic system (see **PRE-CHECK**).

2. **VEHICLES INVOLVED IN A COLLISION**
   a. Check the diagnostic system (see **PRE-CHECK**).
   b. Check the breakage in all wires of the SRS wire harness, and exposed conductors.
   c. Check if the SRS wire harness connectors are cracked or chipped.

REPLACEMENT

In the following cases, replace the wire harness or connector.

- If any part of the SRS wire harness or any connector has been found to be faulty in troubleshooting.
- If any part of the SRS wire harness or any connector has been found to be faulty during checking items (see **INSPECTION**).

CAUTION: If the wire harness used in the SRS is damaged, replace the whole wire harness assembly.

cardiagn.com