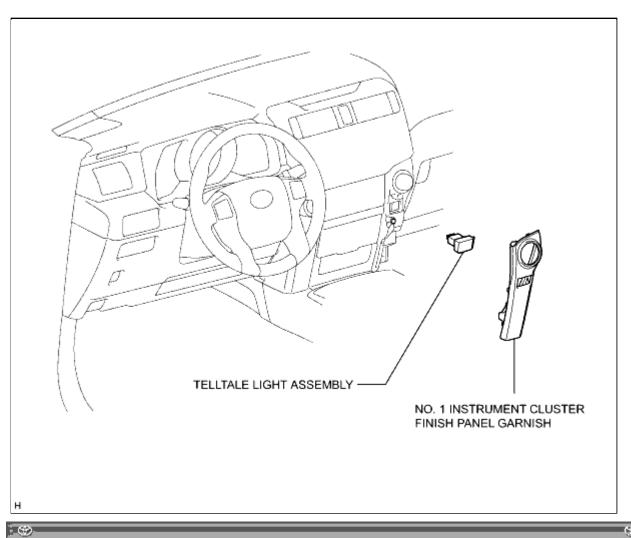
Last Modified: 5-10-2010	6.4 K	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000003YQZ001X

Title: SUPPLEMENTAL RESTRAINT SYSTEMS: AIRBAG CUT-OFF INDICATOR LIGHT:

COMPONENTS (2010 4Runner)

COMPONENTS

ILLUSTRATION



TOYOTA :

Last Modified: 5-10-2010	6.4 A	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000003YR0001X
Title: SUPPLEMENTAL RESTRAINT (2010 4Runner)	SYSTEMS: AIRBAG C	UT-OFF INDICATOR LIGHT: REMOVAL

REMOVAL

1. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

CAUTION:

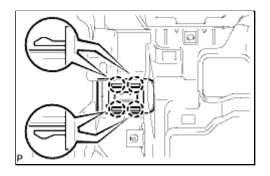
Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

NOTICE:

When disconnecting the cable, some systems need to be initialized after the cable is reconnected



- 2. REMOVE NO. 2 INSTRUMENT CLUSTER FINISH PANEL GARNISH
- 3. REMOVE TELLTALE LIGHT ASSEMBLY



(a) Detach the 4 claws and remove the light.



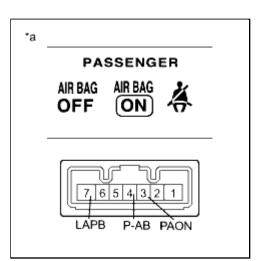
Last Modified: 5-10-2010	6.4 G	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000003WZJ003X
Title: SUPPLEMENTAL RESTRAINT SYSTEMS: AIRBAG CUT-OFF INDICATOR LIGHT: INSPECTION (2010 4Runner)		

INSPECTION

1. INSPECT TELLTALE LIGHT ASSEMBLY

(a) Apply battery voltage to the connector and check the LED illumination.

OK:



MEASUREMENT CONDITION	SPECIFIED CONDITION
Battery positive (+) → 7 (LAPB) Battery negative (-) → 3 (PAON)	Airbag off indicator LED illuminates
Battery positive (+) → 7 (LAPB) Battery negative (-) → 4 (P-AB)	Airbag on indicator LED illuminates

If the result is not as specified, replace the telltale light assembly.

Text in Illustration

	* >	Component without harness connected
ı	a	(Telltale Light Assembly)

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Last Modified: 5-10-2010	6.4 A	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000003YQX001X
Title: SUPPLEMENTAL RESTRAINT SYSTEMS: AIRBAG CUT-OFF INDICATOR LIGHT: INSTALLATION (2010 4Runner)		

INSTALLATION

- 1. INSTALL TELLTALE LIGHT ASSEMBLY
 - (a) Attach the 4 claws to install the light.
- 2. INSTALL NO. 2 INSTRUMENT CLUSTER FINISH PANEL GARNISH
- 3. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

NOTICE:

When disconnecting the cable, some systems need to be initialized after the cable is reconnected



- 4. CHECK SRS WARNING LIGHT
 - (a) Check the SRS warning light

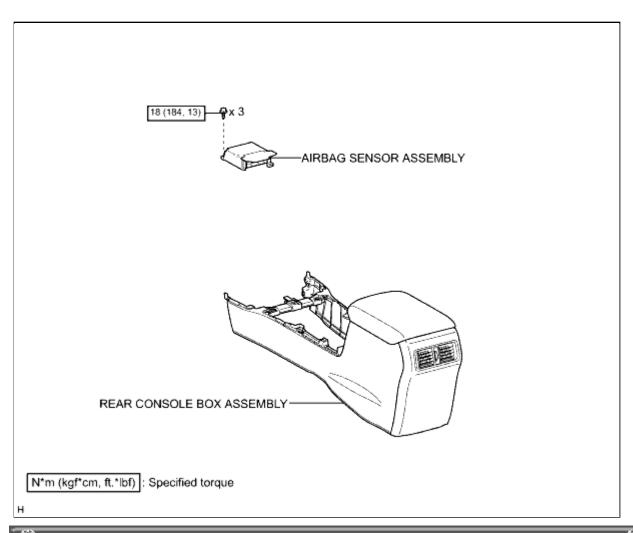




Last Modified: 5-10-2010	6.4 K	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000003YQA003X
Title: SUPPLEMENTAL RESTRAINT SYSTEMS: CENTER AIRBAG SENSOR ASSEMBLY: COMPONENTS (2010 4Runner)		

COMPONENTS

ILLUSTRATION



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Last Modified: 5-10-2010	6.4 G	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000003YQC003X
Title: SUPPLEMENTAL RESTRAINT SYSTEMS: CENTER AIRBAG SENSOR ASSEMBLY:		
ON-VEHICLE INSPECTION (2010 4Runner)		

ON-VEHICLE INSPECTION

- 1. CHECK AIRBAG SENSOR ASSEMBLY (VEHICLE NOT INVOLVED IN COLLISION)
- 2. CHECK AIRBAG SENSOR ASSEMBLY (VEHICLE INVOLVED IN COLLISION AND AIRBAG HAS NOT DEPLOYED)
- 3. CHECK AIRBAG SENSOR ASSEMBLY (VEHICLE INVOLVED IN COLLISION AND AIRBAG HAS DEPLOYED)
 - (a) Replace the airbag sensor.

CAUTION:

For removal and installation of the airbag sensor, be sure to follow the correct procedure.

HINT:

The airbag sensor should be replaced after any of the airbags has deployed, as it has been subjected to an impact.



(#) TOYOTA

Last Modified: 5-10-2010	6.4 A	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000003YQB003X
Title: SUPPLEMENTAL RESTRAINT (2010 4 Runner)	SYSTEMS: CENTER A	IRBAG SENSOR ASSEMBLY: REMOVAL

REMOVAL

1. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

CAUTION:

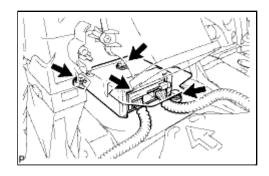
Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

NOTICE:

When disconnecting the cable, some systems need to be initialized after the cable is reconnected



- 2. REMOVE REAR CONSOLE BOX ASSEMBLY
 - (a) Remove the rear console box sub-assembly
- 3. REMOVE AIRBAG SENSOR ASSEMBLY



(a) Disconnect the connector.

(b) Remove the 3 bolts and airbag sensor.



(#) TOYOTA

Last Modified: 5-10-2010	6.4 A	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000003YQ9003X
Title: SUPPLEMENTAL RESTRAINT SYSTEMS: CENTER AIRBAG SENSOR ASSEMBLY:		
INSTALLATION (2010 4Runner)		

INSTALLATION

1. INSTALL AIRBAG SENSOR ASSEMBLY

- (a) Turn the ignition switch off.
- (b) Disconnect the cable from the negative (-) battery terminal.

CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

NOTICE:

When disconnecting the cable, some systems need to be initialized after the cable is reconnected



(c) Install the airbag sensor with the 3 bolts.

Torque: 18 N·m (184 kgf·cm, 13ft·lbf)

NOTICE:

- If the airbag sensor has been dropped, or there are any cracks, dents or other defects in the case, bracket or connector, replace it with a new one.
- When installing the airbag sensor, be careful that the SRS wiring does not interfere with other parts and that it is not pinched between other parts.
- (d) Check that the airbag sensor is not loose.
- (e) Connect the connector.

2. INSTALL REAR CONSOLE BOX ASSEMBLY

(a) Install the rear console box assembly

3. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

NOTICE:

When disconnecting the cable, some systems need to be initialized after the cable is reconnected



4. CHECK SRS WARNING LIGHT

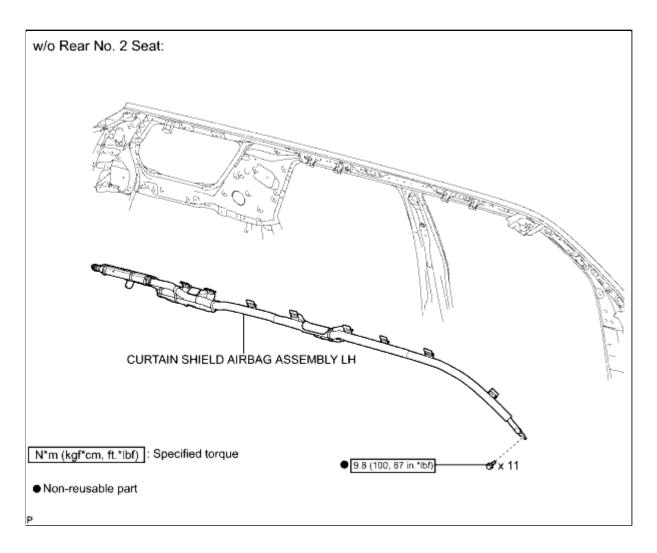
(a) Check the SRS warning light

Last Modified: 5-10-2010	6.4 K	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000003YQ4003X
Title: SUPPLEMENTAL RESTRAINT	SYSTEMS: CURTAIN	SHIELD AIRBAG ASSEMBLY:

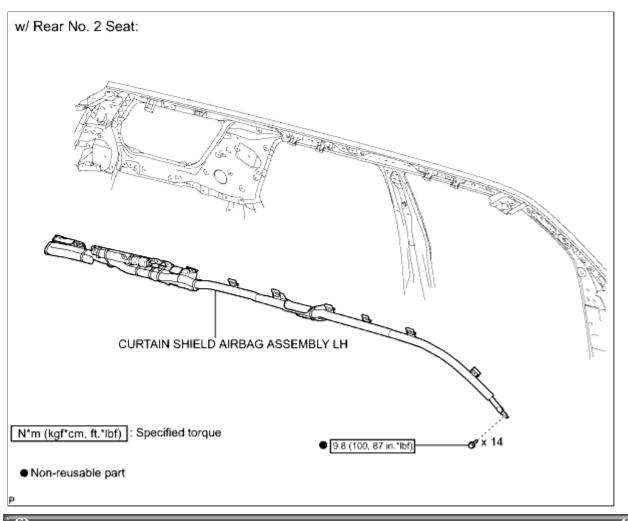
COMPONENTS (2010 4Runner)

COMPONENTS

ILLUSTRATION



ILLUSTRATION



(D) TOYOTA

Last Modified: 5-10-2010	6.4 N	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000003YQ2003X
Title: SUPPLEMENTAL RESTRAINT	SYSTEMS: CURTAIN	SHIELD AIRBAG ASSEMBLY: DISPOSAL

DISPOSAL

(2010 4Runner)

CAUTION:

Before performing pre-disposal deployment of any SRS part, review and closely follow all applicable environmental and hazardous material regulations. Pre-disposal deployment may be considered hazardous material treatment.

1. PRECAUTION

HINT:

- When scrapping a vehicle equipped with the SRS or disposing of the curtain shield airbag, be sure
 to deploy the airbag first 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.
- Use the same procedure for the RH and LH sides.
- The procedure listed below is for the LH side.

CAUTION:

- Never dispose of a curtain shield airbag that has an unactivated airbag.
- The airbag produces an exploding sound when it is deployed, so perform the operation outdoors and where it will not create a nuisance to nearby residents.
- When deploying the airbag, always use the specified SST (SRS Airbag Deployment Tool). Perform the operation in a place away from electrical noise.
- When deploying the airbag, perform the operation at least 10 m (32.8 ft.) away from the curtain shield airbag.
- The curtain shield airbag becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.
- Use gloves and safety glasses when handling a curtain shield airbag with a deployed airbag.
- Do not apply water, etc. to a curtain shield airbag with a deployed airbag.
- Always wash your hands with water after completing the operation.
- An airbag or pretensioner may be activated by static electricity. To prevent this, be sure to touch a metal surface with bare hands to discharge static electricity before performing this procedure.

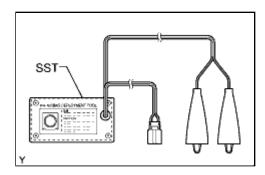
2. DISPOSE OF CURTAIN SHIELD AIRBAG ASSEMBLY LH (WHEN INSTALLED IN VEHICLE)

HINT:

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

(a) Check the function of SST





- (b) Read the precaution
- (c) Disconnect the cable from the negative (-) battery terminal.

CAUTION:

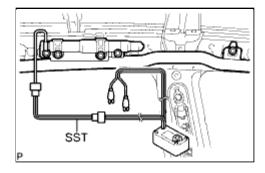
Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

NOTICE:

When disconnecting the cable, some systems need to be initialized after the cable is reconnected



- (d) Remove the roof headlining
- (e) Install SST.



(1) Disconnect the connector.

NOTICE:

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

(2) Connect SST connector to the curtain shield airbag.

SST: 09082-00700 SST: 09082-00802

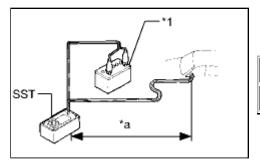
09082-10801 09082-40800

NOTICE:

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

(3) Move SST at least 10 m (32.8 ft.) away from the vehicle front side window.

Text in Illustration



*1	Battery
*a	10 m or more

(4) Maintaining enough clearance for SST wire harness in the front side window, close all doors and windows of the vehicle.

NOTICE:

Take care not to damage SST wire harness.

- (5) Connect the red clip of SST to the positive (+) battery terminal and the black clip of SST to the negative (-) battery terminal.
- (f) Deploy the airbag.
 - (1) Check that no one is inside the vehicle or within a 10 m (32.8 ft.) radius of the vehicle.
 - (2) Press SST activation switch to deploy the airbag.

CAUTION:

- When deploying the airbag, make sure that no one is near the vehicle.
- The curtain shield airbag becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.
- Use gloves and safety glasses when handling a curtain shield airbag with a deployed airbag.
- Do not apply water to a curtain shield airbag with a deployed airbag.
- Always wash your hands with water after completing the operation.

HINT:

The airbag is deployed as the LED of SST activation switch comes on.

3. DISPOSE OF CURTAIN SHIELD AIRBAG ASSEMBLY LH (WHEN NOT INSTALLED IN **VEHICLE**)

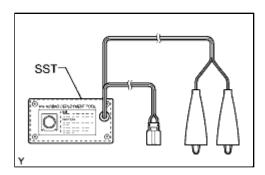
NOTICE:

Be sure to follow the procedure detailed below when deploying the airbag.

HINT:

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

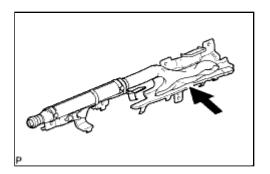
(a) Check the function of SST



(b) Remove the curtain shield airbag

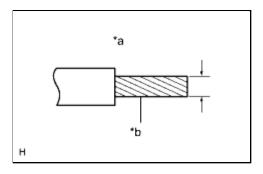
CAUTION:

When removing the curtain shield airbag, wait at least 90 seconds after the ignition switch is turned off and the cable is disconnected from the negative (-) battery terminal before starting work.



(c) Cut off the deployment section of the curtain shield airbag.

(d) Using a service-purpose wire harness for the vehicle, tie the curtain shield airbag to a tire.



Text in Illustration

* a	Wire Harness Diameter
* b	Stripped Wire Harness Section

Cross-sectional area of stripped wire harness section:

1.25 mm² (0.00192 in.²) or more

CAUTION:

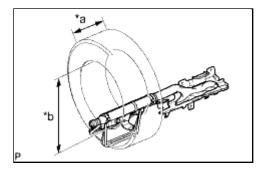
If the wire harness is too thin or an alternative object is used to tie the curtain shield airbag, it may be snapped by the shock when the airbag is deployed. Always use a wire harness for vehicle use with a cross-sectional area of at least 1.25 mm² (0.00192 in.²).

HINT:

To calculate the cross-sectional area of the stripped wire harness section: Cross-sectional area = $3.14 \times (Diameter)^2 / 4$

(1) Position the curtain shield airbag inside a tire with the airbag deployment side facing inside.

Text in Illustration



* a	Width
* b	Inner Diameter

Tire size:

Must exceed the following dimensions

Width

185 mm (7.28 in.)

Inner diameter

360 mm (14.2 in.)

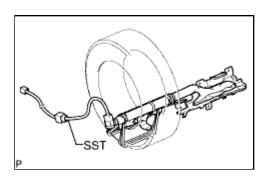
(2) Tie the curtain shield airbag to the tire with several wire harnesses.

CAUTION:

- Make sure that the wire harnesses are tight. If there is slack in the wire harnesses, the curtain shield airbag may become loose due to the shock when the airbag is deployed.
- Always tie the curtain shield airbag with the airbag deployment side facing inside.

NOTICE:

As the tire may be damaged by the airbag deployment, use a tire that you are planning to throw away.

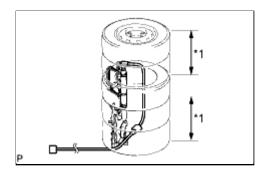


(e) Connect SST connector to the curtain shield airbag.

SST: 09082-00802

09082-10801 09082-40800

(f) Place tires.



Text in Illustration

*4	Tire
*1	(2 or more)

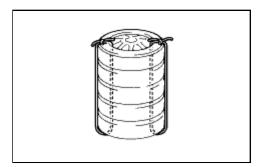
NOTICE:

Do not place the curtain shield airbag with the deployment direction facing the ground.

- (1) Place at least 2 tires under the tire which the curtain shield airbag is tied to.
- (2) Place at least 2 tires over the tire which the curtain shield airbag is tied to. The top tire should have a disc wheel installed.

NOTICE:

- Do not place SST connector under the tires because it could be damaged.
- As the disc wheel may be damaged by the airbag deployment, use a disc wheel that you are planning to throw away.
- As the tires may be damaged by the airbag deployment, use tires that you are planning to throw away.



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

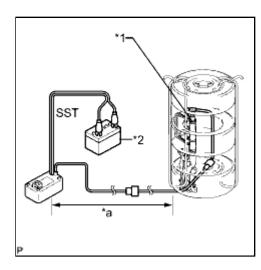
CAUTION:

Make sure that the wire harnesses are tight. Looseness in the wire harnesses results in the tires coming free due to the shock when the airbag is deployed.

(g) Connect SST connector.

Text in Illustration

*1	Curtain Shield Airbag Assembly
* 2	Battery



*a 10 m or more

SST: 09082-00700

NOTICE:

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

- (h) Deploy the airbag.
 - (1) Connect the red clip of SST to the positive (+) battery terminal and the black clip of SST to the negative (-) battery terminal.
 - (2) Check that no one is within a 10 m (32.8 ft.) radius of the tire which the curtain shield airbag is tied to.
 - (3) Press SST activation switch to deploy the airbag.

CAUTION:

When deploying the airbag, make sure that no one is near the tires.

HINT:

The airbag is deployed as the LED of SST activation switch comes on.



CAUTION:

- The curtain shield airbag becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.
- Use gloves and safety glasses when handling a curtain shield airbag with a deployed airbag.
- Do not apply water to a curtain shield airbag with a deployed airbag.
- Always wash your hands with water after completing the operation.
 - (1) Remove the curtain shield airbag from the tire.
 - (2) Place the curtain shield airbag in a plastic bag, tie it tightly and dispose of it in the same way as other general parts.



(2)

Last Modified: 5-10-2010	6.4 G	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000003YQ6003X
Title: SUPPLEMENTAL RESTRAINT SYSTEMS: CURTAIN SHIELD AIRBAG ASSEMBLY:		

ON-VEHICLE INSPECTION

HINT:

- Use the same procedure for the RH and LH sides.
- The procedure listed below is for the LH side.

1. CHECK CURTAIN SHIELD AIRBAG ASSEMBLY LH (VEHICLE NOT INVOLVED IN COLLISION)

- (b) With the curtain shield airbag installed on the vehicle, perform a visual check. If there are any defects as mentioned below, replace the curtain shield airbag with a new one:

Cuts, minute cracks or marked discoloration on the curtain shield airbag.

2. CHECK CURTAIN SHIELD AIRBAG ASSEMBLY LH (VEHICLE INVOLVED IN COLLISION AND AIRBAG HAS NOT DEPLOYED)

- (b) With the curtain shield airbag removed from the vehicle, perform a visual check. If there are any defects as mentioned below, replace the curtain shield airbag with a new one:
 - Cuts, minute cracks or marked discoloration on the curtain shield airbag.
 - Cracks or other damage to the connector.

CAUTION:

For removal and installation of the curtain shield airbag, be sure to follow the correct procedure.

(9)

(#) TOYOTA

Last Modified: 5-10-2010	6.4 A	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000003YQ5003X
Title: SUDDIEMENTAL DESTRAIN	C SYSTEMS: CLIDTAIN	SHIELD AIDRAG ASSEMBLY: DEMOVAL

Title: SUPPLEMENTAL RESTRAINT SYSTEMS: CURTAIN SHIELD AIRBAG ASSEMBLY: REMOVAL

(2010 4Runner)

REMOVAL

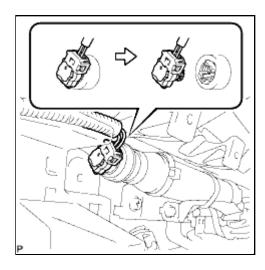
HINT:

- Use the same procedure for the RH and LH sides.
- The procedure listed below is for the LH side.

1. REMOVE ROOF HEADLINING ASSEMBLY

(a) Remove the roof headlining assembly

2. REMOVE CURTAIN SHIELD AIRBAG ASSEMBLY LH (w/o Rear No. 2 Seat)

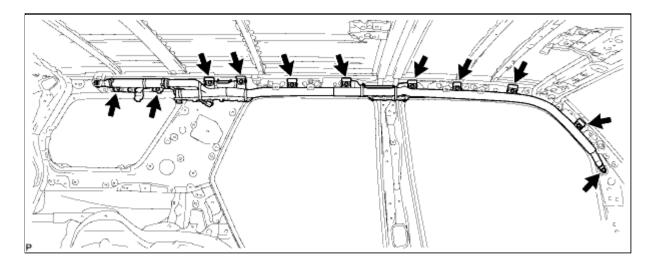


(a) Disconnect the connector.

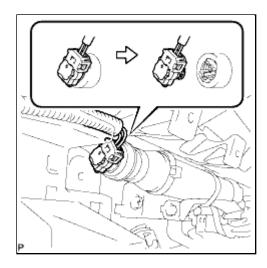
NOTICE:

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

(b) Remove the 11 bolts and curtain shield airbag.



3. REMOVE CURTAIN SHIELD AIRBAG ASSEMBLY LH (w/ Rear No. 2 Seat)

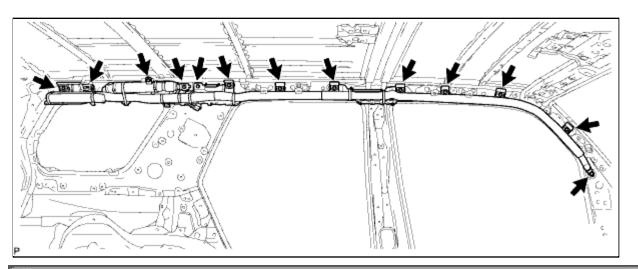


(a) Disconnect the connector.

NOTICE:

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

(b) Remove the 14 bolts and curtain shield airbag.



*

(#) TOYOTA

Last Modified: 5-10-2010	6.4 A	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000003YQ3003X
Title: SUPPLEMENTAL RESTRAINT SYSTEMS: CURTAIN SHIELD AIRBAG ASSEMBLY:		
INSTALLATION (2010 4Runner)		

INSTALLATION

HINT:

- Use the same procedure for the RH and LH sides.
- The procedure listed below is for the LH side.

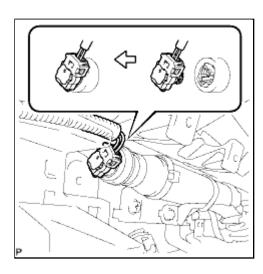
1. INSTALL CURTAIN SHIELD AIRBAG ASSEMBLY LH (w/ Rear No. 2 Seat)

(a) Install the curtain shield airbag with the new 14 bolts.

Torque: 9.8 N·m (100 kgf·cm, 87in·lbf)

NOTICE:

Do not twist the curtain shield airbag when installing it.



(b) Connect the connector.

NOTICE:

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

2. INSTALL CURTAIN SHIELD AIRBAG ASSEMBLY LH (w/o Rear No. 2 Seat)

(a) Install the curtain shield airbag with the new 11 bolts.

Torque: 9.8 N·m (100 kgf·cm, 87in·lbf)

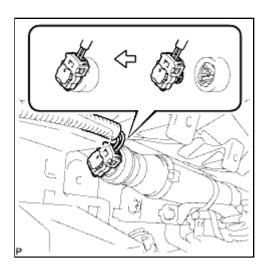
NOTICE:

Do not twist the curtain shield airbag when installing it.

(b) Connect the connector.

NOTICE:

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



3. INSTALL ROOF HEADLINING ASSEMBLY

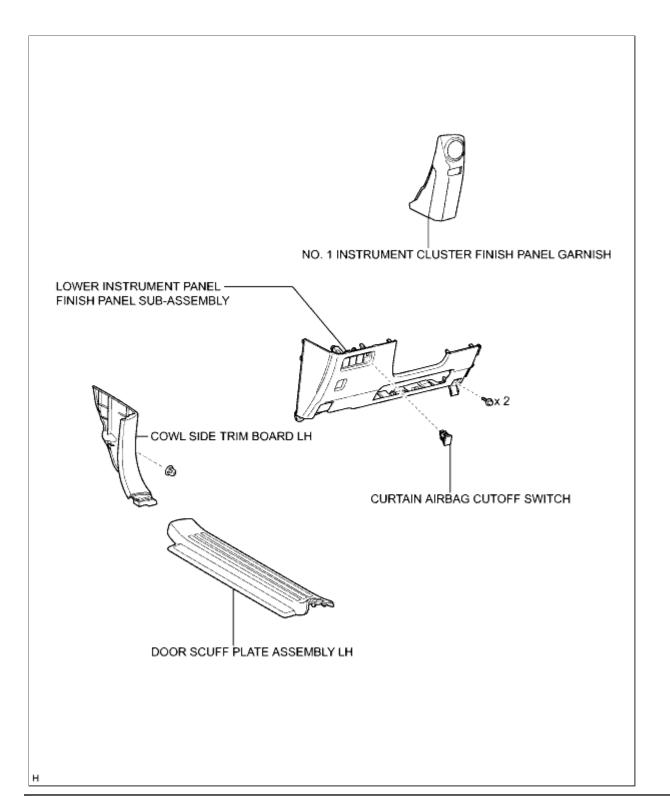
(a) Install the roof headlining .





Last Modified: 5-10-2010	6.4 K	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000003AD500DX
Title: SUPPLEMENTAL RESTRAINT SYSTEMS: CURTAIN SHIELD AIRBAG CUTOFF SWITCH:		

COMPONENTS ILLUSTRATION



: (#)

Last Modified: 5-10-2010	6.4 A	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000003AD600JX
Title: SUPPLEMENTAL RESTRAINT SYSTEMS: CURTAIN SHIELD AIRBAG CUTOFF SWITCH:		
REMOVAL (2010 4Runner)		

REMOVAL

1. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

NOTICE:

When disconnecting the cable, some systems need to be initialized after the cable is reconnected

- 2. REMOVE DOOR SCUFF PLATE ASSEMBLY LH
- 3. REMOVE COWL SIDE TRIM BOARD LH
- 4. REMOVE NO. 1 INSTRUMENT CLUSTER FINISH PANEL GARNISH
- 5. REMOVE LOWER INSTRUMENT PANEL FINISH PANEL SUB-ASSEMBLY
- 6. REMOVE CURTAIN AIRBAG CUTOFF SWITCH



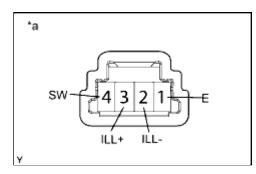
(a) Detach the 2 claws and remove the switch.



Last Modified: 5-10-2010	6.4 G	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000003AD400EX
Title: SUPPLEMENTAL RESTRAINT SYSTEMS: CURTAIN SHIELD AIRBAG CUTOFF SWITCH:		
INSPECTION (2010 4Runner)		

INSPECTION

1. INSPECT CURTAIN AIRBAG CUTOFF SWITCH



(a) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
4 (SW) - 1 (E)	Switch is not pressed	10 kΩ or higher
	Switch is pressed	Below 1 Ω

(b) Apply battery voltage to the connector and check the LED illumination.

OK:

MEASUREMENT CONDITION	SPECIFIED CONDITION
Battery positive $(+) \rightarrow Terminal 3 (ILL+)$ Battery negative $(-) \rightarrow Terminal 2 (ILL-)$	LED illuminates

If the result is not as specified, there may be a malfunction in the curtain shield airbag cutoff switch.

Text in Illustration

*a Component without harness connected
(Curtain Shield Airbag Cutoff Switch)

Last Modified: 5-10-2010	6.4 A	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000003AD300JX
Title: SUPPLEMENTAL RESTRAINT	SYSTEMS: CURTAIN	SHIELD AIRBAG CUTOFF SWITCH:

INSTALLATION

- 1. INSTALL CURTAIN AIRBAG CUTOFF SWITCH
 - (a) Attach the 2 claws to install the switch.
- 2. INSTALL LOWER INSTRUMENT PANEL FINISH PANEL SUB-ASSEMBLY
- 3. INSTALL NO. 1 INSTRUMENT CLUSTER FINISH PANEL GARNISH
- 4. INSTALL COWL SIDE TRIM BOARD LH
- 5. INSTALL DOOR SCUFF PLATE ASSEMBLY LH
- 6. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

NOTICE:

7. CHECK SRS WARNING LIGHT

(a) Check the SRS warning light



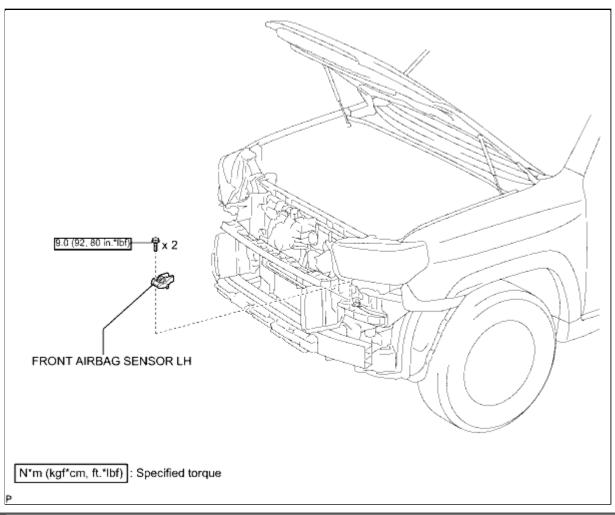
Last Modified: 5-10-2010	6.4 K	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000003YQE001X

Title: SUPPLEMENTAL RESTRAINT SYSTEMS: FRONT AIRBAG SENSOR: COMPONENTS (2010

4Runner)

COMPONENTS

ILLUSTRATION



⊕ TOYOTA

Last Modified: 5-10-2010	6.4 G	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000003YQG001X
Title: SUPPLEMENTAL RESTRAINT SYSTEMS: FRONT AIRBAG SENSOR: ON-VEHICLE		

ON-VEHICLE INSPECTION

HINT:

- Use the same procedure for the RH and LH sides.
- The procedure listed below is for the LH side.

1. CHECK FRONT AIRBAG SENSOR LH (VEHICLE NOT INVOLVED IN COLLISION)

2. CHECK FRONT AIRBAG SENSOR LH (VEHICLE INVOLVED IN COLLISION AND AIRBAG HAS NOT DEPLOYED)

- (a) Perform a diagnostic system check
- (b) When the front bumper of the vehicle or the surrounding area is damaged, check if there is any damage to the front airbag sensor. If the front airbag sensor has defects as mentioned below, replace it with a new one:
 - Cracks, dents or chips on the sensor housing.
 - Cracks or other damage to the connector.
 - Peeling of the label or damage to the serial number.

CAUTION:

For removal and installation of the front airbag sensor, be sure to follow the correct procedure.

3. CHECK FRONT AIRBAG SENSOR LH (VEHICLE INVOLVED IN COLLISION AND AIRBAG HAS DEPLOYED)

- (a) When airbags have deployed as the result of a collision, be certain to replace all front airbag sensors in the damaged area (anywhere in need of repair). Furthermore, it is also necessary to replace any front airbag sensor in undamaged areas that have registered a major collision, or which exhibits any of the following abnormalities:
 - Cracks, dents or chips on the sensor housing.
 - Cracks or other damage to the connector.
 - Peeling of the label or damage to the serial number.

CAUTION:

For removal and installation of the front airbag sensor, be sure to follow the correct procedure.

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Last Modified: 5-10-2010	6.4 A	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000003YQF001X
Title: SUPPLEMENTAL RESTRAINT SYSTEMS: FRONT AIRBAG SENSOR: REMOVAL (2010 4Runner)		

REMOVAL

HINT:

- Use the same procedure for the RH and LH sides.
- The procedure listed below is for the LH side.

1. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

NOTICE:

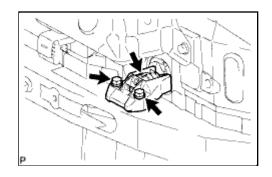
When disconnecting the cable, some systems need to be initialized after the cable is reconnected



2. REMOVE FRONT BUMPER COVER

(a) Remove the front bumper cover

3. REMOVE FRONT AIRBAG SENSOR LH



(a) Disconnect the connector.

(b) Remove the 2 bolts and front airbag sensor.



Last Modified: 5-10-2010	6.4 A	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000003YQD001X
Title: SUPPLEMENTAL RESTRAINT SYSTEMS: FRONT AIRBAG SENSOR: INSTALLATION (2010		

INSTALLATION

HINT:

- Use the same procedure for the RH and LH sides.
- The procedure listed below is for the LH side.

1. INSTALL FRONT AIRBAG SENSOR LH

- (a) Turn the ignition switch off.
- (b) Disconnect the cable from the negative (-) battery terminal.

CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

NOTICE:

When disconnecting the cable, some systems need to be initialized after the cable is reconnected



- (c) Connect the connector.
- (d) Install the front airbag sensor with the 2 bolts.

Torque: 9.0 N·m (92 kgf·cm, 80in·lbf)

NOTICE:

- If the front airbag sensor has been dropped, or there are any cracks, dents or other defects in the case, bracket or connector, replace it with a new one.
- When installing the front airbag sensor, be careful that the SRS wiring does not interfere with other parts and that it is not pinched between other parts.
- (e) Check that the front airbag sensor is not loose.

2. INSTALL FRONT BUMPER COVER

(a) Install the front bumper cover

3. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

NOTICE:

When disconnecting the cable, some systems need to be initialized after the cable is reconnected



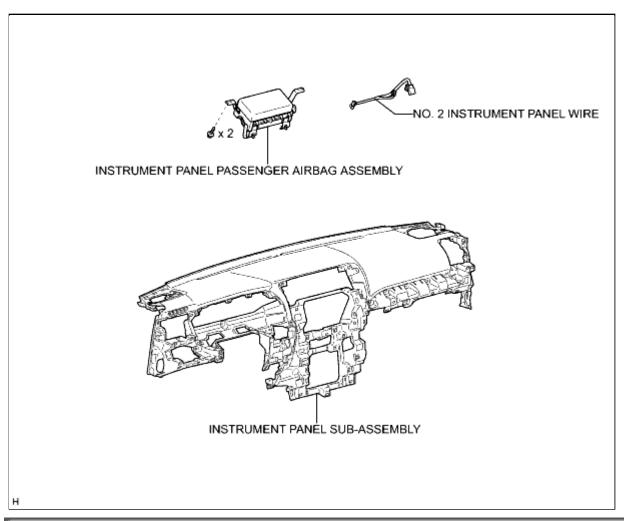
4. CHECK SRS WARNING LIGHT

(B)

Last Modified: 5-10-2010	6.4 K	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000003YPZ003X
Title: SUPPLEMENTAL RESTRAINT SYSTEMS: FRONT PASSENGER AIRBAG ASSEMBLY:		
COMPONENTS (2010 4Runner)		

COMPONENTS

ILLUSTRATION



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Last Modified: 5-10-2010	6.4 G	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000003YQ1003X
Title: SUPPLEMENTAL RESTRAINT SYSTEMS: FRONT PASSENGER AIRBAG ASSEMBLY:		

ON-VEHICLE INSPECTION

1. CHECK INSTRUMENT PANEL PASSENGER AIRBAG ASSEMBLY (VEHICLE NOT INVOLVED IN COLLISION)

- (a) Perform a diagnostic system check
- (b) With the instrument panel passenger airbag installed on the vehicle, perform a visual check. If there are any defects as mentioned below, replace the instrument panel passenger airbag with a new one:

Cuts, minute cracks or marked discoloration on the instrument panel passenger airbag.

2. CHECK INSTRUMENT PANEL PASSENGER AIRBAG ASSEMBLY (VEHICLE INVOLVED IN COLLISION AND AIRBAG HAS NOT DEPLOYED)

- (a) Perform a diagnostic system check
- (b) With the instrument panel passenger airbag removed from the vehicle, perform a visual check. If there are any defects as mentioned below, replace the instrument panel passenger airbag with a new one:
 - Cuts, minute cracks or marked discoloration on the instrument panel passenger airbag.
 - Cracks or other damage to the connector.
 - Deformation or cracks in the instrument panel reinforcement.

CAUTION:

For removal and installation of the instrument panel passenger airbag, be sure to follow the correct procedure.

(9)

(#) TOYOTA

Last Modified: 5-10-2010	6.4 N	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000003YPX003X
Title: SUPPLEMENTAL RESTRAINT SYSTEMS: FRONT PASSENGER AIRBAG ASSEMBLY:		

DISPOSAL

CAUTION:

Before performing pre-disposal deployment of any SRS part, review and closely follow all applicable environmental and hazardous material regulations. Pre-disposal deployment may be considered hazardous material treatment.

1. PRECAUTION

HINT:

When scrapping a vehicle equipped with the SRS or disposing of the instrument panel passenger airbag, be sure to deploy the airbag first 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:

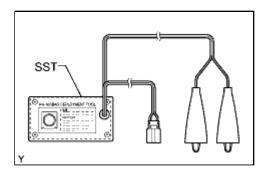
- Never dispose of an instrument panel passenger airbag that has an unactivated airbag.
- The airbag produces an exploding sound when it is deployed, so perform the operation outdoors and where it will not create a nuisance to nearby residents.
- When deploying the airbag, always use the specified SST (SRS Airbag Deployment Tool). Perform the operation in a place away from electrical noise.
- When deploying the airbag, perform the operation at least 10 m (32.8 ft.) away from the instrument panel passenger airbag.
- The instrument panel passenger airbag becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.
- Use gloves and safety glasses when handling an instrument panel passenger airbag with a deployed airbag.
- Do not apply water, etc. to an instrument panel passenger airbag with a deployed airbag.
- Always wash your hands with water after completing the operation.
- An airbag or pretensioner may be activated by static electricity. To prevent this, be sure to touch a metal surface with bare hands to discharge static electricity before performing this procedure.

2. DISPOSE OF INSTRUMENT PANEL PASSENGER AIRBAG ASSEMBLY (WHEN INSTALLED IN VEHICLE)

HINT:

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

(a) Check the function of SST



- (b) Read the precaution
- (c) Disconnect the cable from the negative (-) battery terminal.

CAUTION:

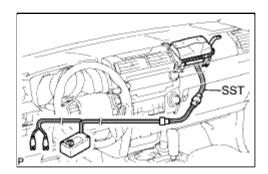
Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

NOTICE:

When disconnecting the cable, some systems need to be initialized after the cable is reconnected



- (d) Remove the instrument panel passenger airbag
- (e) Install SST.



(1) Disconnect the connector.

NOTICE:

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

(2) Connect SST connector to the instrument panel wire.

SST: 09082-00700 SST: 09082-00780

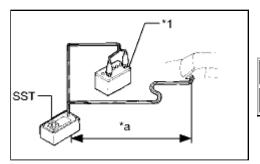
NOTICE:

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

(3) Install the instrument panel passenger airbag

(4) Move SST at least 10 m (32.8 ft.) away from the vehicle front side window.

Text in Illustration



* 1	Battery
* a	10 m or more

(5) Maintaining enough clearance for SST wire harness in the front side window, close all doors and windows of the vehicle.

NOTICE:

Take care not to damage SST wire harness.

- (6) Connect the red clip of SST to the positive (+) battery terminal and the black clip of SST to the negative (-) battery terminal.
- (f) Deploy the airbag.
 - (1) Check that no one is inside the vehicle or within a 10 m (32.8 ft.) radius of the vehicle.
 - (2) Press SST activation switch to deploy the airbag.

CAUTION:

- When deploying the airbag, make sure that no one is near the vehicle.
- The instrument panel passenger airbag becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.
- Use gloves and safety glasses when handling an instrument panel passenger airbag with a deployed airbag.
- Do not apply water to an instrument panel passenger airbag with a deployed airbag.
- Always wash your hands with water after completing the operation.

HINT:

The airbag is deployed as the LED of SST activation switch comes on.

3. DISPOSE OF INSTRUMENT PANEL PASSENGER AIRBAG ASSEMBLY (WHEN NOT **INSTALLED IN VEHICLE)**

NOTICE:

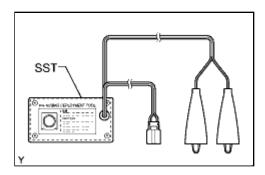
Be sure to follow the procedure detailed below when deploying the airbag.

HINT:

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

(a) Check the function of SST

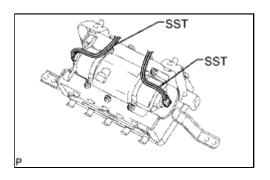




(b) Remove the instrument panel passenger airbag

CAUTION:

- When removing the instrument panel passenger airbag, wait at least 90 seconds after the ignition switch is turned off and the cable is disconnected from the negative (-) battery terminal before starting work.
- When storing the instrument panel passenger airbag, keep the airbag deployment side facing upward.

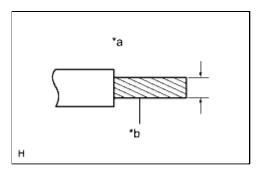


(c) After connecting SST to each other, connect them to the instrument panel passenger airbag.

SST: 09082-00802

09082-10801 09082-30801

(d) Using a service-purpose wire harness for the vehicle, tie the instrument panel passenger airbag to a tire.



Text in Illustration

* a	Wire Harness Diameter	
* b	*b Stripped Wire Harness Section	

Cross-sectional area of stripped wire harness section:

1.25 mm² (0.00192 in.²) or more

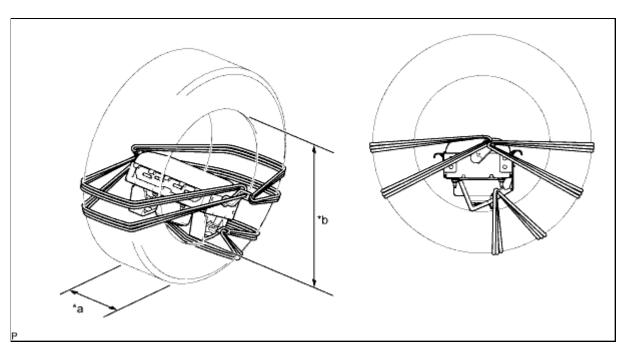
CAUTION:

If the wire harness is too thin or an alternative object is used to tie the instrument panel passenger airbag, it may be snapped by the shock when the airbag is deployed. Always use a wire harness for vehicle use with a cross-sectional area of at least 1.25 mm^2 (0.00192 in.²).

HINT:

To calculate the cross-sectional area of the stripped wire harness section: Cross-sectional area = $3.14 \times (Diameter)^2 / 4$

(1) Position the instrument panel passenger airbag inside a tire with the airbag deployment side facing inside.



Text in Illustration

* a	Width	* b	Inner Diameter

Tire size:

Must exceed the following dimensions

Width

185 mm (7.28 in.)

Inner diameter

360 mm (14.2 in.)

(2) Tie the instrument panel passenger airbag to the tire with several wire harnesses.

CAUTION:

- Make sure that the wire harnesses are tight. If there is slack in the wire harnesses, the
 instrument panel passenger airbag may become loose due to the shock when the airbag is
 deployed.
- Always tie the instrument panel passenger airbag with the airbag deployment side facing inside.

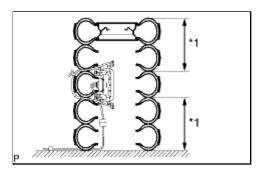
NOTICE:

As the tire may be damaged by the airbag deployment, use a tire that you are planning to throw away.

(e) Connect SST connector to the instrument panel passenger airbag.

SST: 09082-00700

(f) Place tires.



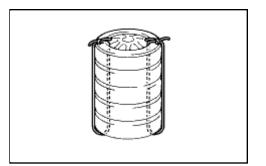
Text in Illustration

*1	Tire
"1	(2 or more)

- (1) Place at least 2 tires under the tire which the instrument panel passenger airbag is tied to.
- (2) Place at least 2 tires over the tire which the instrument panel passenger airbag is tied to. The top tire should have a disc wheel installed.

NOTICE:

- Do not place SST connector under the tires because it could be damaged.
- As the disc wheel may be damaged by the airbag deployment, use a disc wheel that you are planning to throw away.
- As the tires may be damaged by the airbag deployment, use tires that you are planning to throw away.



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

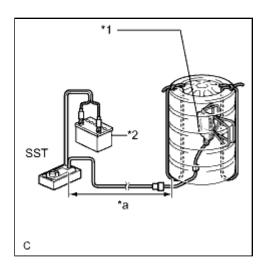
CAUTION:

Make sure that the wire harnesses are tight. Looseness in the wire harnesses results in the tires coming free due to the shock when the airbag is deployed.

(g) Connect SST connector.

Text in Illustration

*1 Instrument Panel Passenger Airbag



*2	Battery
* a	10 m or more

NOTICE:

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

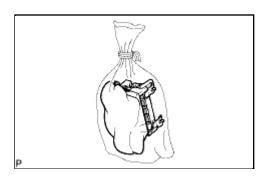
- (h) Deploy the airbag.
 - (1) Connect the red clip of SST to the positive (+) battery terminal and the black clip of SST to the negative (-) battery terminal.
 - (2) Check that no one is within a 10 m (32.8 ft.) radius of the tire which the instrument panel passenger airbag is tied to.
 - (3) Press SST activation switch to deploy the airbag.

CAUTION:

When deploying the airbag, make sure that no one is near the tires.

HINT:

The airbag is deployed as the LED of SST activation switch comes on.



(i) Dispose of the instrument panel passenger airbag.

CAUTION:

- The instrument panel passenger airbag becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.
- Use gloves and safety glasses when handling an instrument panel passenger airbag with a deployed airbag.
- Do not apply water to an instrument panel passenger airbag with a deployed airbag.
- Always wash your hands with water after completing the operation.
 - (1) Remove the instrument panel passenger airbag from the tire.
 - (2) Place the instrument panel passenger airbag in a plastic bag, tie it tightly and dispose of it in the same way as other general parts.

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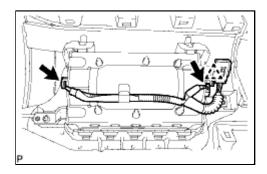
Last Modified: 5-10-2010	6.4 A	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000003YQ0003X
Title: SUPPLEMENTAL RESTRAINT SYSTEMS: FRONT PASSENGER AIRBAG ASSEMBLY:		

REMOVAL

1. REMOVE INSTRUMENT PANEL SUB-ASSEMBLY

(a) Remove the instrument panel sub-assembly

2. REMOVE NO. 2 INSTRUMENT PANEL WIRE



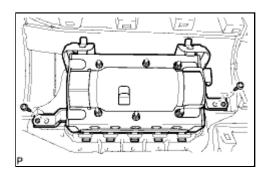
(a) Detach the clamp.

(b) Disconnect the 2 connectors and remove the wire.

NOTICE:

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

3. REMOVE INSTRUMENT PANEL PASSENGER AIRBAG ASSEMBLY

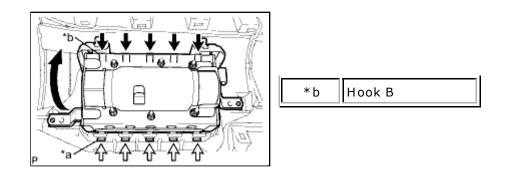


(a) Remove the 2 screws.

(b) Detach the 5 hooks (A).

Text in Illustration





(c) Detach the 5 hooks (B) and remove the instrument panel passenger airbag.

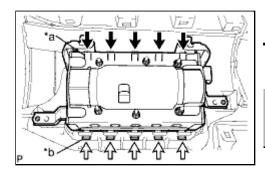


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Last Modified: 5-10-2010	6.4 A	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000003YPY003X
Title: SUPPLEMENTAL RESTRAINT	SYSTEMS: FRONT PA	SSENGER AIRBAG ASSEMBLY:
INSTALLATION (2010 4Runner)		

INSTALLATION

1. INSTALL INSTRUMENT PANEL PASSENGER AIRBAG ASSEMBLY



(a) Attach the 5 hooks (A).

Text in Illustration

* a	Hook A
* b	Hook B

- (b) Attach the 5 hooks (B) to install the instrument panel passenger airbag.
- (c) Install the 2 screws.

2. INSTALL NO. 2 INSTRUMENT PANEL WIRE

(a) Connect the 2 connectors to install the wire.

NOTICE:

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

(b) Attach the clamp.

3. INSTALL INSTRUMENT PANEL SUB-ASSEMBLY

(a) Install the instrument panel sub-assembly

(2)

(#) TOYOTA

Last Modified: 5-10-2010	6.4 N	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000003YQ7002X
Title: SUPPLEMENTAL RESTRAINT SYSTEMS: FRONT SEAT SIDE AIRBAG ASSEMBLY:		
DISPOSAL (2010 4Runner)		

DISPOSAL

CAUTION:

Before performing pre-disposal deployment of any SRS part, review and closely follow all applicable environmental and hazardous material regulations. Pre-disposal deployment may be considered hazardous material treatment.

1. PRECAUTION

HINT:

When scrapping a vehicle equipped with the SRS or disposing of the front seat side airbag, be sure to deploy the airbag first 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.

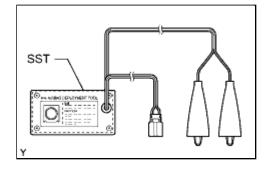
CAUTION:

- Never dispose of a front seat side airbag that has an unactivated airbag.
- The airbag produces an exploding sound when it is deployed, so perform the operation outdoors and where it will not create a nuisance to nearby residents.
- When deploying the airbag, always use the specified SST (SRS Airbag Deployment Tool). Perform the operation in a place away from electrical noise.
- When deploying the airbag, perform the operation at least 10 m (32.8 ft.) away from the front seat side airbag.
- The front seat side airbag becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.
- Use gloves and safety glasses when handling a front seat side airbag with a deployed airbag.
- Do not apply water, etc. to a front seat side airbag with a deployed airbag.
- Always wash your hands with water after completing the operation.
- An airbag or pretensioner may be activated by static electricity. To prevent this, be sure to touch a metal surface with bare hands to discharge static electricity before performing this procedure.

2. DISPOSE OF FRONT SEAT SIDE AIRBAG ASSEMBLY (WHEN INSTALLED IN VEHICLE)

HINT:

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



(a) Check the function of SST



- (b) Read the precaution
- (c) Disconnect the cable from the negative (-) battery terminal.

CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

NOTICE:

When disconnecting the cable, some systems need to be initialized after the cable is reconnected



- (d) for Manual Seat:
 - (1) Remove the front seat

HINT:

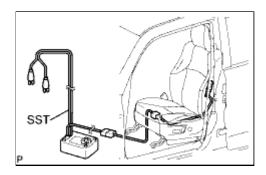
Keep the front seat in the cabin.

- (e) for Power Seat:
 - (1) Remove the front seat

HINT:

Keep the front seat in the cabin.

(f) Install SST.



(1) Disconnect the connector (yellow-colored) from the front seat side airbag.

NOTICE:

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

(2) Connect SST connector to the front seat side airbag connector.

SST: 09082-00700 SST: 09082-00820

NOTICE:

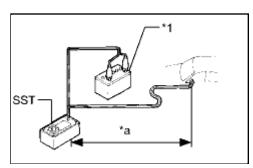
To avoid damaging SST connector and wire harness, do not lock the secondary lock of the twin lock.

(3) for Manual Seat:

Install the front seat

(4) for Power Seat:

Install the front seat



(5) Move SST at least 10 m (32.8 ft.) away from the vehicle front side window.

Text in Illustration

*1	Battery
* a	10 m or more

(6) Maintaining enough clearance for SST wire harness in the front side window, close all doors and windows of the vehicle.

NOTICE:

Take care not to damage SST wire harness.

- (7) Connect the red clip of SST to the positive (+) battery terminal and the black clip of SST to the negative (-) battery terminal.
- (g) Deploy the airbag.
 - (1) Check that no one is inside the vehicle or within a 10 m (32.8 ft.) radius of the vehicle.
 - (2) Press SST activation switch to deploy the airbag.

CAUTION:

- When deploying the airbag, make sure that no one is near the vehicle.
- The front seat side airbag becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.
- Use gloves and safety glasses when handling a front seat side airbag with a deployed airbag.
- Do not apply water to a front seat side airbag with a deployed airbag.
- Always wash your hands with water after completing the operation.

HINT:

The airbag is deployed as the LED of SST activation switch comes on.

3. DISPOSE OF FRONT SEAT SIDE AIRBAG ASSEMBLY (WHEN NOT INSTALLED IN **VEHICLE**)

NOTICE:

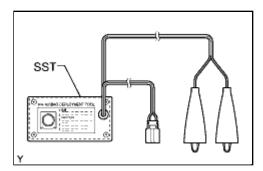
Be sure to follow the procedure detailed below when deploying the airbag.

HINT:

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

(a) Check the function of SST





- (b) Remove the front seat side airbag.
 - (1) for Manual Seat:

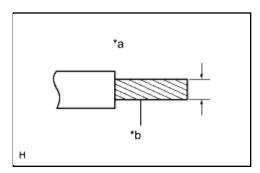
Remove the front seat

(2) for Power Seat:

(3) Remove the 2 nuts and front seat side airbag from the seatback.

CAUTION:

- When removing the front seat side airbag, wait at least 90 seconds after the ignition switch is turned off and the cable is disconnected from the negative (-) battery terminal before starting work.
- When storing the front seat side airbag, keep the airbag deployment side facing upward.
- (c) Using a service-purpose wire harness for the vehicle, tie the front seat side airbag to a tire.



Text in Illustration

* a	Wire Harness Diameter	
* b	*b Stripped Wire Harness Section	

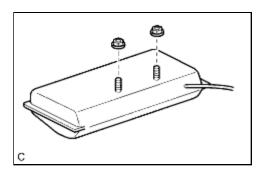
Cross-sectional area of stripped wire harness section:

1.25 mm² (0.00192 in.²) or more

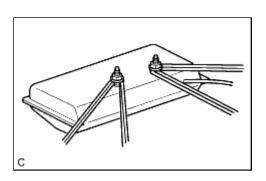
CAUTION:

If the wire harness is too thin or an alternative object is used to tie the front seat side airbag, it may be snapped by the shock when the airbag is deployed. Always use a wire harness for vehicle use with a cross-sectional area of at least 1.25 mm² (0.00192 in.²).

HINT:

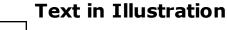


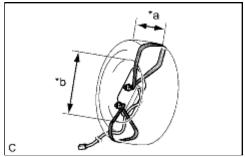
(1) Install the 2 nuts to the front seat side airbag.



(2) Wind the wire harness around the stud bolts of the front seat side airbag as shown in the illustration.

(3) Position the front seat side airbag inside a tire with the airbag deployment side facing inside.





* a	Width
* b	Inner Diameter

Tire size:

Must exceed the following dimensions

Width

185 mm (7.28 in.)

Inner diameter

360 mm (14.2 in.)

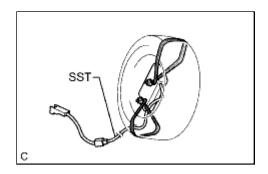
(4) Tie the front seat side airbag to the tire with several wire harnesses.

CAUTION:

- Make sure that the wire harnesses are tight. If there is slack in the wire harnesses, the front seat side airbag may become loose due to the shock when the airbag is deployed.
- Always tie the front seat side airbag with the airbag deployment side facing inside.

NOTICE:

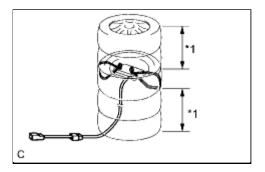
As the tire may be damaged by the airbag deployment, use a tire that you are planning to throw away.



(d) Connect SST connector to the front seat side airbag connector.

SST: 09082-00820

(e) Place tires.



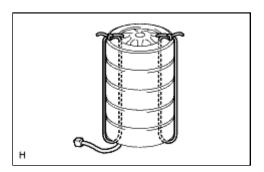
Text in Illustration

*1 Tire (2 or more)

- (1) Place at least 2 tires under the tire which the front seat side airbag is tied to.
- (2) Place at least 2 tires over the tire which the front seat side airbag is tied to. The top tire should have a disc wheel installed.

NOTICE:

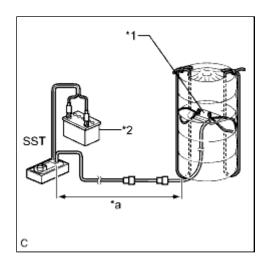
- Do not place SST connector under the tires because it could be damaged.
- As the disc wheel may be damaged by the airbag deployment, use a disc wheel that you are planning to throw away.
- As the tires may be damaged by the airbag deployment, use tires that you are planning to throw away.



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

CAUTION:

Make sure that the wire harnesses are tight. Looseness in the wire harnesses results in the tires coming free due to the shock when the airbag is deployed.



(f) Connect SST connector.

SST: 09082-00700

NOTICE:

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

- (g) Deploy the airbag.
 - (1) Connect the red clip of SST to the positive (+) battery terminal and the black clip of SST to the negative (-) battery terminal.
 - (2) Check that no one is within a 10 m (32.8 ft.) radius of the tire which the front seat side airbag is tied to.
 - (3) Press SST activation switch to deploy the airbag.

CAUTION:

When deploying the airbag, make sure that no one is near the tires.

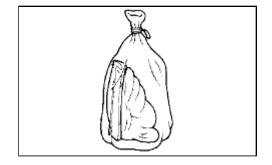
HINT:

The airbag is deployed as the LED of SST activation switch comes on.



CAUTION:

- The front seat side airbag becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.
- Use gloves and safety glasses when handling a front seat side airbag with a deployed airbag.
- Do not apply water to a front seat side airbag with a deployed airbag.
- Always wash your hands with water after completing the operation.
 - (1) Remove the front seat side airbag from the tire.
 - (2) Place the front seat side airbag in a plastic bag, tie it tightly and dispose of it in the same way as other general parts.



Last Modified: 5-10-2010	6.4 G	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000003YQ8002X
Title: SUPPLEMENTAL RESTRAINT SYSTEMS: FRONT SEAT SIDE AIRBAG ASSEMBLY:		

ON-VEHICLE INSPECTION

1. CHECK FRONT SEAT SIDE AIRBAG ASSEMBLY (VEHICLE NOT INVOLVED IN COLLISION)

- (b) With the front seat side airbag installed on the vehicle, perform a visual check. If there are any defects as mentioned below, replace the front seat with a new one:

Cuts, minute cracks or marked discoloration on the front seatback around the front seat side airbag.

2. CHECK FRONT SEAT SIDE AIRBAG ASSEMBLY (VEHICLE INVOLVED IN COLLISION AND AIRBAG HAS NOT DEPLOYED)

- (a) Perform a diagnostic system check
- (b) With the front seat side airbag removed from the vehicle, perform a visual check. If there are any defects as mentioned below, replace the front seat side airbag with a new one:
 - Cuts, minute cracks or marked discoloration on the front seat side airbag.
 - Cracks or other damage to the wire harness or connector.

NOTICE:

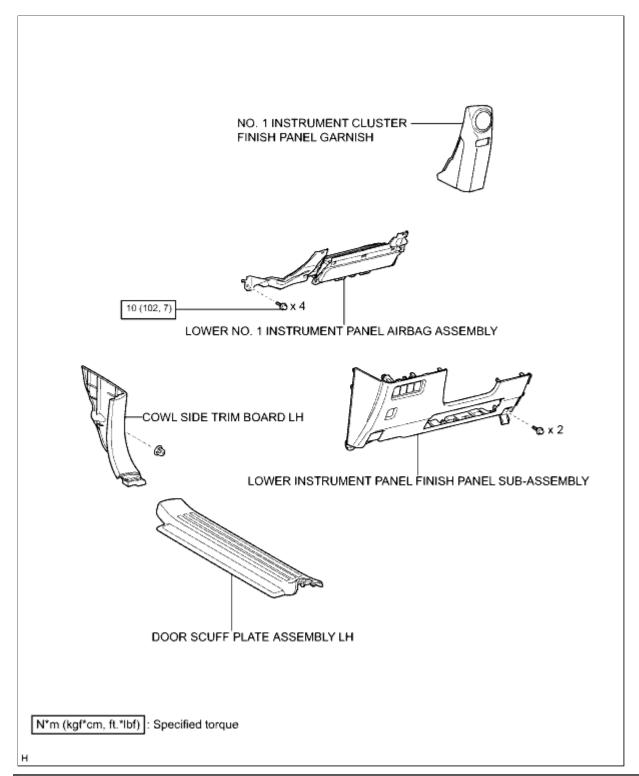
For removal and installation of the front seat side airbag, be sure to follow the correct procedure.





Last Modified: 5-10-2010	6.4 K	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000003YPU005X
Title: SUPPLEMENTAL RESTRAINT SYSTEMS: KNEE AIRBAG ASSEMBLY (for Driver Side):		

COMPONENTS ILLUSTRATION



(3)

⊕TOYOTA

Last Modified: 5-10-2010	6.4 N	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000003YPS005X
Title: SUPPLEMENTAL RESTRAINT SYSTEMS: KNEE AIRBAG ASSEMBLY (for Driver Side):		

DISPOSAL

CAUTION:

Before performing pre-disposal deployment of any SRS part, review and closely follow all applicable environmental and hazardous material regulations. Pre-disposal deployment may be considered hazardous material treatment.

1. PRECAUTION

HINT:

When scrapping a vehicle equipped with the SRS or disposing of the lower No. 1 instrument panel airbag, be sure to deploy the airbag first 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:

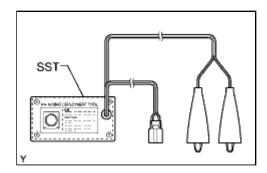
- Never dispose of a lower No. 1 instrument panel airbag that has an unactivated airbag.
- The airbag produces an exploding sound when it is deployed, so perform the operation outdoors and where it will not create a nuisance to nearby residents.
- When deploying the airbag, always use the specified SST (SRS Airbag Deployment Tool). Perform the operation in a place away from electrical noise.
- When deploying the airbag, perform the operation at least 10 m (32.8 ft.) away from the lower No.
 1 instrument panel airbag.
- The lower No. 1 instrument panel airbag becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.
- Use gloves and safety glasses when handling a lower No. 1 instrument panel airbag with a deployed airbag.
- Do not apply water, etc. to a lower No. 1 instrument panel airbag with a deployed airbag.
- Always wash your hands with water after completing the operation.
- An airbag or pretensioner may be activated by static electricity. To prevent this, be sure to touch a metal surface with bare hands to discharge static electricity before performing this procedure.

2. DISPOSE OF LOWER NO. 1 INSTRUMENT PANEL AIRBAG ASSEMBLY (WHEN INSTALLED IN VEHICLE)

HINT:

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

(a) Check the function of SST



- (b) Read the precaution
- (c) Disconnect the cable from the negative (-) battery terminal.

CAUTION:

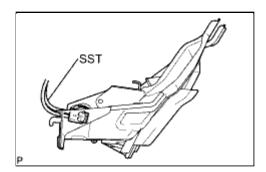
Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

NOTICE:

When disconnecting the cable, some systems need to be initialized after the cable is reconnected



- (d) Remove the lower No. 1 instrument panel airbag
- (e) Install SST.



SST: 09082-00700 SST: 09082-00780

(1) Connect SST connector to the lower No. 1 instrument panel airbag.

NOTICE:

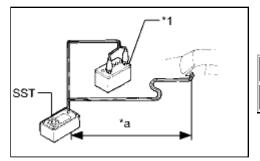
To avoid damaging SST connector and wire harness, do not lock the secondary lock of the twin lock.

NOTICE:

Take care not to damage SST wire harness.

(3) Move SST at least 10 m (32.8 ft.) away from the vehicle front side window.

Text in Illustration



*1	Battery
* a	10 m or more

(4) Maintaining enough clearance for SST wire harness in the front side window, close all doors and windows of the vehicle.

NOTICE:

Take care not to damage SST wire harness.

- (5) Connect the red clip of SST to the positive (+) battery terminal and the black clip of SST to the negative (-) battery terminal.
- (f) Deploy the airbag.
 - (1) Check that no one is inside the vehicle or within a 10 m (32.8 ft.) radius of the vehicle.
 - (2) Press SST activation switch to deploy the airbag.

CAUTION:

- When deploying the airbag, make sure that no one is near the vehicle.
- The lower No. 1 instrument panel airbag becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.
- Use gloves and safety glasses when handling a lower No. 1 instrument panel airbag with a deployed airbag.
- Do not apply water to a lower No. 1 instrument panel airbag with a deployed airbag.
- Always wash your hands with water after completing the operation.

HINT:

The airbag is deployed as the LED of SST activation switch comes on.

3. DISPOSE OF LOWER NO. 1 INSTRUMENT PANEL AIRBAG ASSEMBLY (WHEN NOT **INSTALLED IN VEHICLE)**

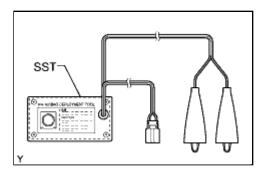
NOTICE:

Be sure to follow the procedure detailed below when deploying the airbag.

HINT:

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

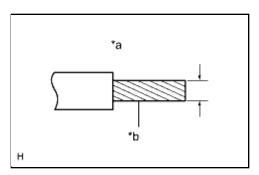
(a) Check the function of SST



(b) Remove the lower No. 1 instrument panel airbag

CAUTION:

- When removing the lower No. 1 instrument panel airbag, wait at least 90 seconds after the ignition switch is turned off and the cable is disconnected from the negative (-) battery terminal before starting work.
- When storing the lower No. 1 instrument panel airbag, keep the airbag deployment side facing upward.
- (c) Using a service-purpose wire harness for the vehicle, tie the lower No. 1 instrument panel airbag to a tire.



Text in Illustration

* a	Wire Harness Diameter
* b	Stripped Wire Harness Section

Cross-sectional area of stripped wire harness section:

1.25 mm² (0.00192 in.²) or more

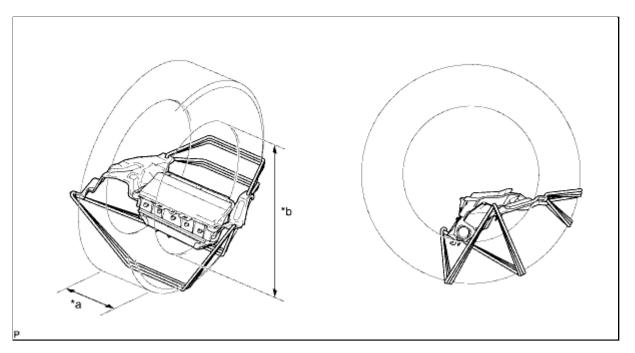
CAUTION:

If the wire harness is too thin or an alternative object is used to tie the lower No. 1 instrument panel airbag, it may be snapped by the shock when the airbag is deployed. Always use a wire harness for vehicle use with a cross-sectional area of at least 1.25 mm² (0.00192 in.²).

HINT:

To calculate the cross-sectional area of the stripped wire harness section: Cross-sectional area = $3.14 \times (Diameter)^2 / 4$

(1) Position the lower No. 1 instrument panel airbag inside a tire with the airbag deployment side facing inside.



Text in Illustration

*a Width	* b	Inner Diameter
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Tire size:

Must exceed the following dimensions

Width

185 mm (7.28 in.)

Inner diameter

360 mm (14.2 in.)

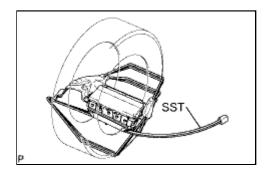
(2) Tie the lower No. 1 instrument panel airbag to the tire with several wire harnesses.

CAUTION:

- Make sure that the wire harnesses are tight. If there is slack in the wire harnesses, the lower No.
 1 instrument panel airbag may become loose due to the shock when the airbag is deployed.
- Always tie the lower No. 1 instrument panel airbag with the airbag deployment side facing inside.

NOTICE:

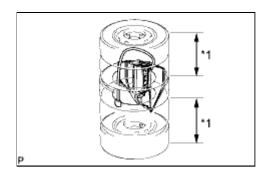
As the tire may be damaged by the airbag deployment, use a tire that you are planning to throw away.



(d) Connect SST connector to the lower No. 1 instrument panel airbag.

SST: 09082-00780

(e) Place tires.



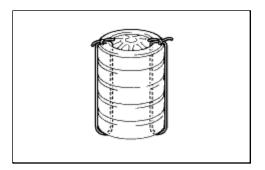
Text in Illustration

* 1	Tire
	(2 or more)

- (1) Place at least 2 tires under the tire which the lower No. 1 instrument panel airbag is tied to.
- (2) Place at least 2 tires over the tire which the lower No. 1 instrument panel airbag is tied to. The top tire should have a disc wheel installed.

NOTICE:

- Do not place SST connector under the tires because it could be damaged.
- As the disc wheel may be damaged by the airbag deployment, use a disc wheel that you are planning to throw away.
- As the tires may be damaged by the airbag deployment, use tires that you are planning to throw away.



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

CAUTION:

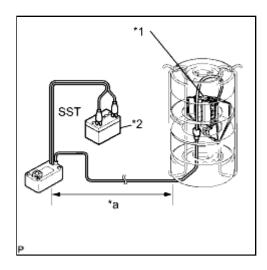
Make sure that the wire harnesses are tight. Looseness in the wire harnesses results in the tires coming free due to the shock when the airbag is deployed.

(f) Connect SST connector.

Text in Illustration

*1	Lower No. 1 Instrument Panel Airbag Assembly
* 2	Battery
* a	10 m or more

SST: 09082-00700



NOTICE:

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

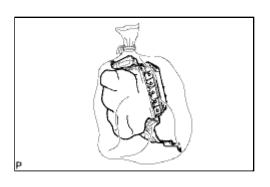
- (g) Deploy the airbag.
 - (1) Connect the red clip of SST to the positive (+) battery terminal and the black clip of SST to the negative (-) battery terminal.
 - (2) Check that no one is within a 10 m (32.8 ft.) radius of the tire which the lower No. 1 instrument panel airbag is tied to.
 - (3) Press SST activation switch to deploy the airbag.

CAUTION:

When deploying the airbag, make sure that no one is near the tires.

HINT:

The airbag is deployed as the LED of SST activation switch comes on.



(h) Dispose of the lower No. 1 instrument panel airbag.

CAUTION:

- The lower No. 1 instrument panel airbag becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.
- Use gloves and safety glasses when handling a lower No. 1 instrument panel airbag with a deployed airbag.
- Do not apply water to a lower No. 1 instrument panel airbag with a deployed airbag.
- Always wash your hands with water after completing the operation.
 - (1) Remove the lower No. 1 instrument panel airbag from the tire.
 - (2) Place the lower No. 1 instrument panel airbag in a plastic bag, tie it tightly and dispose of it in the same way as other general parts.

Last Modified: 5-10-2010	6.4 G	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000003YPW005X
Title: SUPPLEMENTAL RESTRAINT SYSTEMS: KNEE AIRBAG ASSEMBLY (for Driver Side):		

ON-VEHICLE INSPECTION

1. CHECK LOWER NO. 1 INSTRUMENT PANEL AIRBAG ASSEMBLY (VEHICLE NOT INVOLVED IN COLLISION)

- (a) Perform a diagnostic system check
- (b) With the lower No. 1 instrument panel airbag installed on the vehicle, perform a visual check. If there are any defects as mentioned below, replace the lower No. 1 instrument panel airbag with a new one:

Cuts, minute cracks or marked discoloration on the lower No. 1 instrument panel airbag.

2. CHECK LOWER NO. 1 INSTRUMENT PANEL AIRBAG ASSEMBLY (VEHICLE INVOLVED IN COLLISION AND AIRBAG HAS NOT DEPLOYED)

- (a) Perform a diagnostic system check
- (b) With the lower No. 1 instrument panel airbag removed from the vehicle, perform a visual check. If there are any defects as mentioned below, replace the lower No. 1 instrument panel airbag with a new one:
 - Cuts, minute cracks or marked discoloration on the lower No. 1 instrument panel airbag.
 - Cracks or other damage to the connector.
 - Deformation or cracks in the instrument panel reinforcement.

CAUTION:

For removal and installation of the lower No. 1 instrument panel airbag, be sure to follow the correct procedure.

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(#) TOYOTA

Last Modified: 5-10-2010	6.4 A	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000003YPV005X
Title: SUPPLEMENTAL RESTRAINT SYSTEMS: KNEE AIRBAG ASSEMBLY (for Driver Side): REMOVAL (2010 4Runner)		

REMOVAL

1. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

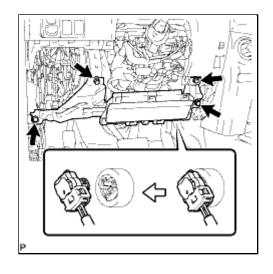
CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

NOTICE:

When disconnecting the cable, some systems need to be initialized after the cable is reconnected

- 2. REMOVE DOOR SCUFF PLATE ASSEMBLY LH
- 3. REMOVE COWL SIDE TRIM BOARD LH
- 4. REMOVE NO. 1 INSTRUMENT CLUSTER FINISH PANEL GARNISH
- 5. REMOVE LOWER INSTRUMENT PANEL FINISH PANEL SUB-ASSEMBLY
- 6. REMOVE LOWER NO. 1 INSTRUMENT PANEL AIRBAG ASSEMBLY



(a) Remove the 4 bolts and airbag assembly.

(b) Disconnect the connector.

NOTICE:

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

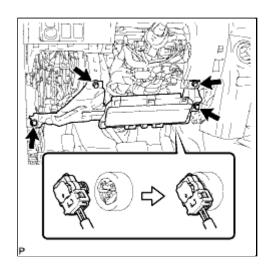


Last Modified: 5-10-2010	6.4 A	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000003YPT005X
Title: SUPPLEMENTAL RESTRAINT SYSTEMS: KNEE AIRBAG ASSEMBLY (for Driver Side):		

INSTALLATION (2010 4Runner)

INSTALLATION

1. INSTALL LOWER NO. 1 INSTRUMENT PANEL AIRBAG ASSEMBLY



(a) Connect the connector.

NOTICE:

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

(b) Install the airbag assembly with the 4 bolts.

Torque: 10 N·m (102 kgf·cm, 7ft·lbf)

- 2. INSTALL LOWER INSTRUMENT PANEL FINISH PANEL SUB-ASSEMBLY
- 3. INSTALL NO. 1 INSTRUMENT CLUSTER FINISH PANEL GARNISH
- 4. INSTALL COWL SIDE TRIM BOARD LH
- 5. INSTALL DOOR SCUFF PLATE ASSEMBLY LH
- 6. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

NOTICE:

When disconnecting the cable, some systems need to be initialized after the cable is reconnected

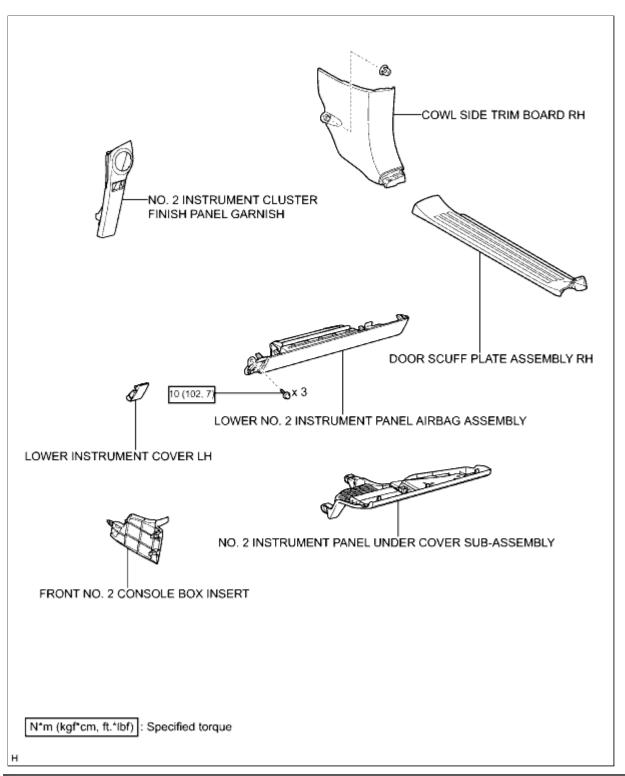
7. CHECK SRS WARNING LIGHT

(a) Check the SRS warning light

(9)

Last Modified: 5-10-2010	6.4 K	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000003YPU004X
Title: SUPPLEMENTAL RESTRAINT SYSTEMS: KNEE AIRBAG ASSEMBLY (for Front Passenger		
Side): COMPONENTS (2010 4Runner)		

COMPONENTS ILLUSTRATION



(#) TOYOTA

Last Modified: 5-10-2010	6.4 N	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000003YPS004X
Title: SUPPLEMENTAL RESTRAINT SYSTEMS: KNEE AIRBAG ASSEMBLY (for Front Passenger		

Side): DISPOSAL (2010 4Runner)

DISPOSAL

CAUTION:

Before performing pre-disposal deployment of any SRS part, review and closely follow all applicable environmental and hazardous material regulations. Pre-disposal deployment may be considered hazardous material treatment.

1. PRECAUTION

HINT:

When scrapping a vehicle equipped with the SRS or disposing of the lower No. 2 instrument panel airbag, be sure to deploy the airbag first 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:

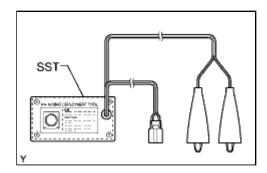
- Never dispose of a lower No. 2 instrument panel airbag that has an unactivated airbag.
- The airbag produces an exploding sound when it is deployed, so perform the operation outdoors and where it will not create a nuisance to nearby residents.
- When deploying the airbag, always use the specified SST (SRS Airbag Deployment Tool). Perform the operation in a place away from electrical noise.
- When deploying the airbag, perform the operation at least 10 m (32.8 ft.) away from the lower No. 2 instrument panel airbag.
- The lower No. 2 instrument panel airbag becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.
- Use gloves and safety glasses when handling a lower No. 2 instrument panel airbag with a deployed airbag.
- Do not apply water, etc. to a lower No. 2 instrument panel airbag with a deployed airbag.
- Always wash your hands with water after completing the operation.
- An airbag or pretensioner may be activated by static electricity. To prevent this, be sure to touch a metal surface with bare hands to discharge static electricity before performing this procedure.

2. DISPOSE OF LOWER NO. 2 INSTRUMENT PANEL AIRBAG ASSEMBLY (WHEN INSTALLED IN VEHICLE)

HINT:

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

(a) Check the function of SST



- (b) Read the precaution
- (c) Disconnect the cable from the negative (-) battery terminal.

CAUTION:

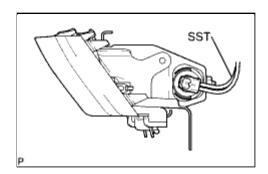
Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

NOTICE:

When disconnecting the cable, some systems need to be initialized after the cable is reconnected



- (d) Remove the lower No. 2 instrument panel airbag
- (e) Install SST.



SST: 09082-00700 SST: 09082-00780

(1) Connect SST connector to the lower No. 2 instrument panel airbag.

NOTICE:

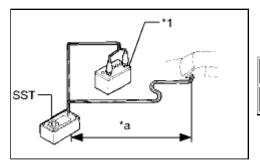
To avoid damaging SST connector and wire harness, do not lock the secondary lock of the twin lock.

NOTICE:

Take care not to damage SST wire harness.

(3) Move SST at least 10 m (32.8 ft.) away from the vehicle front side window.

Text in Illustration



*1	Battery
* a	10 m or more

(4) Maintaining enough clearance for SST wire harness in the front side window, close all doors and windows of the vehicle.

NOTICE:

Take care not to damage SST wire harness.

- (5) Connect the red clip of SST to the positive (+) battery terminal and the black clip of SST to the negative (-) battery terminal.
- (f) Deploy the airbag.
 - (1) Check that no one is inside the vehicle or within a 10 m (32.8 ft.) radius of the vehicle.
 - (2) Press SST activation switch to deploy the airbag.

CAUTION:

- When deploying the airbag, make sure that no one is near the vehicle.
- The lower No. 2 instrument panel airbag becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.
- Use gloves and safety glasses when handling a lower No. 2 instrument panel airbag with a deployed airbag.
- Do not apply water to a lower No. 2 instrument panel airbag with a deployed airbag.
- Always wash your hands with water after completing the operation.

HINT:

The airbag is deployed as the LED of SST activation switch comes on.

3. DISPOSE OF LOWER NO. 2 INSTRUMENT PANEL AIRBAG ASSEMBLY (WHEN NOT **INSTALLED IN VEHICLE)**

NOTICE:

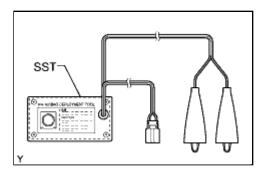
Be sure to follow the procedure detailed below when deploying the airbag.

HINT:

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

(a) Check the function of SST

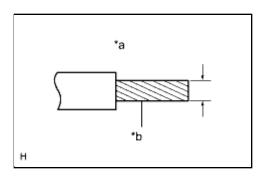




(b) Remove the lower No. 2 instrument panel airbag

CAUTION:

- When removing the lower No. 2 instrument panel airbag, wait at least 90 seconds after the ignition switch is turned off and the cable is disconnected from the negative (-) battery terminal before starting work.
- When storing the lower No. 2 instrument panel airbag, keep the airbag deployment side facing upward.
- (c) Using a service-purpose wire harness for the vehicle, tie the lower No. 2 instrument panel airbag to a tire.



Text in Illustration

* a	Wire Harness Diameter
* b	Stripped Wire Harness Section

Cross-sectional area of stripped wire harness section:

1.25 mm² (0.00192 in.²) or more

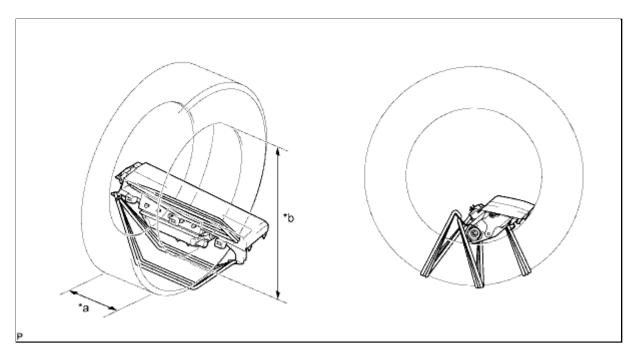
CAUTION:

If the wire harness is too thin or an alternative object is used to tie the lower No. 2 instrument panel airbag, it may be snapped by the shock when the airbag is deployed. Always use a wire harness for vehicle use with a cross-sectional area of at least 1.25 mm² (0.00192 in.²).

HINT:

To calculate the cross-sectional area of the stripped wire harness section: Cross-sectional area = $3.14 \times (Diameter)^2 / 4$

(1) Position the lower No. 2 instrument panel airbag inside a tire with the airbag deployment side facing inside.



Text in Illustration

*a	Width	* b	Inner Diameter
<u> </u>			

Tire size:

Must exceed the following dimensions

Width

185 mm (7.28 in.)

Inner diameter

360 mm (14.2 in.)

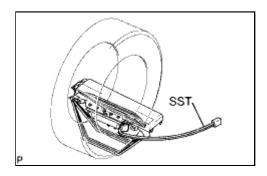
(2) Tie the lower No. 2 instrument panel airbag to the tire with several wire harnesses.

CAUTION:

- Make sure that the wire harnesses are tight. If there is slack in the wire harnesses, the lower No.
 2 instrument panel airbag may become loose due to the shock when the airbag is deployed.
- Always tie the lower No. 2 instrument panel airbag with the airbag deployment side facing inside.

NOTICE:

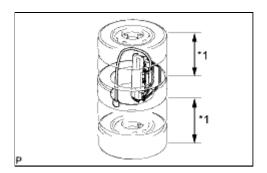
As the tire may be damaged by the airbag deployment, use a tire that you are planning to throw away.



(d) Connect SST connector to the lower No. 2 instrument panel airbag.

SST: 09082-00780

(e) Place tires.



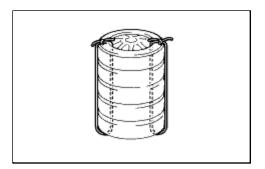
Text in Illustration

*1	Tire
*1	(2 or more)

- (1) Place at least 2 tires under the tire which the lower No. 2 instrument panel airbag is tied to.
- (2) Place at least 2 tires over the tire which the lower No. 2 instrument panel airbag is tied to. The top tire should have a disc wheel installed.

NOTICE:

- Do not place SST connector under the tires because it could be damaged.
- As the disc wheel may be damaged by the airbag deployment, use a disc wheel that you are planning to throw away.
- As the tires may be damaged by the airbag deployment, use tires that you are planning to throw away.



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

CAUTION:

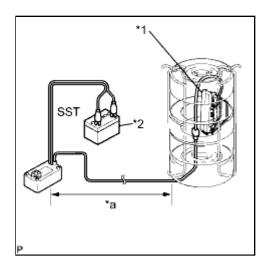
Make sure that the wire harnesses are tight. Looseness in the wire harnesses results in the tires coming free due to the shock when the airbag is deployed.

(f) Connect SST connector.

Text in Illustration

*1	Lower No. 2 Instrument Panel Airbag Assembly	
*2	Battery	
* a	10 m or more	

SST: 09082-00700



NOTICE:

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

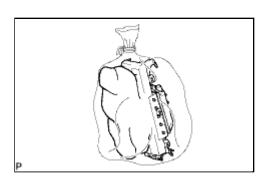
- (g) Deploy the airbag.
 - (1) Connect the red clip of SST to the positive (+) battery terminal and the black clip of SST to the negative (-) battery terminal.
 - (2) Check that no one is within a 10 m (32.8 ft.) radius of the tire which the lower No. 2 instrument panel airbag is tied to.
 - (3) Press SST activation switch to deploy the airbag.

CAUTION:

When deploying the airbag, make sure that no one is near the tires.

HINT:

The airbag is deployed as the LED of SST activation switch comes on.



(h) Dispose of the lower No. 2 instrument panel airbag.

CAUTION:

- The lower No. 2 instrument panel airbag becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.
- Use gloves and safety glasses when handling a lower No. 2 instrument panel airbag with a deployed airbag.
- Do not apply water to a lower No. 2 instrument panel airbag with a deployed airbag.
- Always wash your hands with water after completing the operation.
 - (1) Remove the lower No. 2 instrument panel airbag from the tire.
 - (2) Place the lower No. 2 instrument panel airbag in a plastic bag, tie it tightly and dispose of it in the same way as other general parts.

Last Modified: 5-10-2010	6.4 G	From: 200908	
Model Year: 2010	Model: 4Runner	Doc ID: RM000003YPW004X	
Title: SUPPLEMENTAL RESTRAINT SYSTEMS: KNEE AIRBAG ASSEMBLY (for Front Passenger			
Side): ON-VEHICLE INSPECTION (2010 4Runner)			

ON-VEHICLE INSPECTION

1. CHECK LOWER NO. 2 INSTRUMENT PANEL AIRBAG ASSEMBLY (VEHICLE NOT INVOLVED IN COLLISION)

- (a) Perform a diagnostic system check
- (b) With the lower No. 2 instrument panel airbag installed on the vehicle, perform a visual check. If there are any defects as mentioned below, replace the lower No. 2 instrument panel airbag with a new one:

Cuts, minute cracks or marked discoloration on the lower No. 2 instrument panel airbag.

2. CHECK LOWER NO. 2 INSTRUMENT PANEL AIRBAG ASSEMBLY (VEHICLE INVOLVED IN COLLISION AND AIRBAG HAS NOT DEPLOYED)

- (a) Perform a diagnostic system check
- (b) With the lower No. 2 instrument panel airbag removed from the vehicle, perform a visual check. If there are any defects as mentioned below, replace the lower No. 2 instrument panel airbag with a new one:
 - Cuts, minute cracks or marked discoloration on the lower No. 2 instrument panel airbag.
 - Cracks or other damage to the connector.
 - Deformation or cracks in the instrument panel reinforcement.

CAUTION:

For removal and installation of the lower No. 2 instrument panel airbag, be sure to follow the correct procedure.

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Last Modified: 5-10-2010	6.4 A	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000003YPV004X
Title: SUPPLEMENTAL RESTRAINT SYSTEMS: KNEE AIRRAG ASSEMBLY (for Front Passenger		

Side): REMOVAL (2010 4Runner)

REMOVAL

1. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

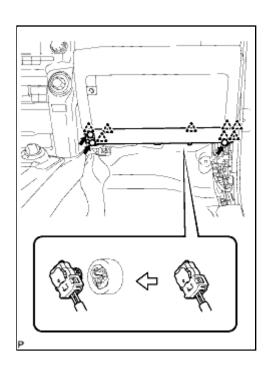
CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

NOTICE:

When disconnecting the cable, some systems need to be initialized after the cable is reconnected

- 2. REMOVE DOOR SCUFF PLATE ASSEMBLY RH
- 3. REMOVE COWL SIDE TRIM BOARD RH
- 4. REMOVE NO. 2 INSTRUMENT CLUSTER FINISH PANEL GARNISH
- 5. REMOVE NO. 2 INSTRUMENT PANEL UNDER COVER SUB-ASSEMBLY
- 6. REMOVE FRONT NO. 2 CONSOLE BOX INSERT
- 7. REMOVE LOWER INSTRUMENT COVER LH
- 8. REMOVE LOWER NO. 2 INSTRUMENT PANEL AIRBAG ASSEMBLY



(a) Remove the 3 bolts.

(b) Detach the 8 claws and remove the instrument panel airbag.

(c) Disconnect the connector.

NOTICE:

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



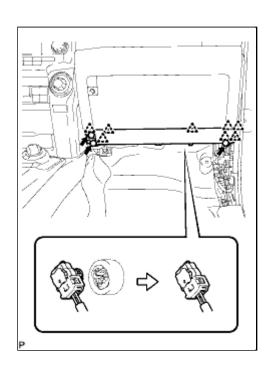
Last Modified: 5-10-2010	6.4 A	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000003YPT004X
Title: SUDDIEMENTAL DESTRAINT SYSTEMS: KNEE AIDRAG ASSEMBLY (for Front Dassenger		

Title: SUPPLEMENTAL RESTRAINT SYSTEMS: KNEE AIRBAG ASSEMBLY (for Front Passenger

Side): INSTALLATION (2010 4Runner)

INSTALLATION

1. INSTALL LOWER NO. 2 INSTRUMENT PANEL AIRBAG ASSEMBLY



(a) Connect the connector.

NOTICE:

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

- (b) Attach the 8 claws to install the instrument panel airbag.
- (c) Install the 3 bolts.

Torque: 10 N·m (102 kgf·cm, 7ft·lbf)

- 2. INSTALL LOWER INSTRUMENT COVER LH
- 3. INSTALL FRONT NO. 2 CONSOLE BOX INSERT
- 4. INSTALL NO. 2 INSTRUMENT PANEL UNDER COVER SUB-ASSEMBLY
- 5. INSTALL NO. 2 INSTRUMENT CLUSTER FINISH PANEL GARNISH
- 6. INSTALL COWL SIDE TRIM BOARD RH
- 7. INSTALL DOOR SCUFF PLATE ASSEMBLY RH
- 8. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

NOTICE:

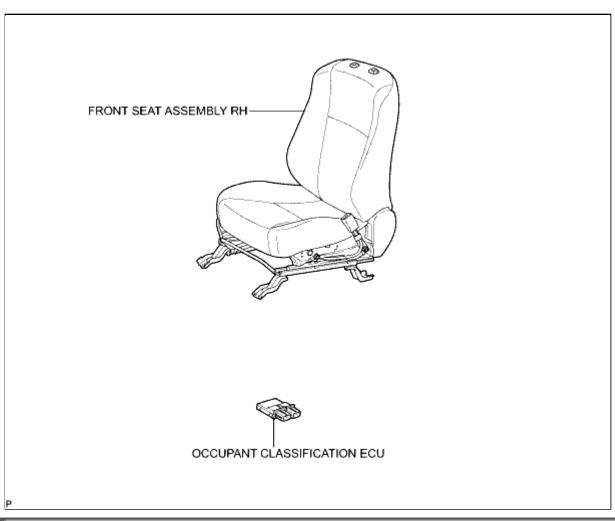
⊕ TOYOTA 🤃

9. CHECK SRS WARNING LIGHT

Last Modified: 5-10-2010	6.4 K	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM0000011JF019X
Title: SUPPLEMENTAL RESTRAINT SYSTEMS: OCCUPANT CLASSIFICATION ECU: COMPONENTS (2010 4Runner)		

COMPONENTS

ILLUSTRATION



Last Modified: 5-10-2010	6.4 G	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM0000011JH01EX
Title: SUPPLEMENTAL RESTRAINT SYSTEMS: OCCUPANT CLASSIFICATION ECU:		

ON-VEHICLE INSPECTION

CAUTION:

Be sure to follow the correct removal and installation procedures for the occupant classification ECU.

- 1. CHECK OCCUPANT CLASSIFICATION ECU (VEHICLE NOT INVOLVED IN COLLISION)

2. CHECK OCCUPANT CLASSIFICATION ECU (VEHICLE INVOLVED IN COLLISION AND AIRBAG HAS NOT DEPLOYED)

- (b) Visually check for the following defects of the occupant classification ECU:
 - Cracks on the ECU housing
 - Dents on the ECU housing
 - Chips on the ECU housing
 - Cracks or other damage to the connector
 - Damage to the serial number

OK:

No defects are found.

HINT:

If any of the defects is found, replace the occupant classification ECU with a new one.

3. CHECK OCCUPANT CLASSIFICATION ECU (VEHICLE INVOLVED IN COLLISION AND AIRBAG HAS DEPLOYED)

- (a) Perform a diagnostic system check
- (b) Visually check for the following defects of the occupant classification ECU:
 - Cracks on the ECU housing
 - Dents on the ECU housing
 - Chips on the ECU housing
 - Cracks or other damage to the connector
 - Damage to the serial number

OK:

No defects are found.

HINT:

If any of the defects is found, replace the occupant classification ECU with a new one.

(9)

Last Modified: 5-10-2010	6.4 A	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM0000011JG01GX
Title: SUPPLEMENTAL RESTRAINT SYSTEMS: OCCUPANT CLASSIFICATION ECU: REMOVAL		

REMOVAL

1. PRECAUTION

CAUTION:

Be sure to read Precaution thoroughly before servicing

NOTICE:

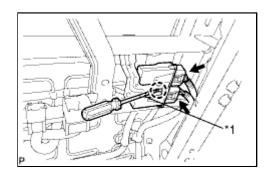
- When removing the front seat assembly RH, perform zero point calibration and the sensitivity
- When replacing the occupant classification ECU, perform zero point calibration and the sensitivity check MFC

2. REMOVE FRONT SEAT ASSEMBLY RH

HINT:

Refer to the procedures up to Remove Front Seat Assembly

3. REMOVE OCCUPANT CLASSIFICATION ECU



(a) Disconnect the 2 connectors.

(b) Using a screwdriver, detach the claw and remove the occupant classification ECU.

HINT:

Tape the screwdriver tip before use.

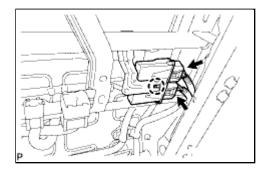
Text in Illustration

Γ	* 1	Protective Tape

Last Modified: 5-10-2010	6.4 A	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM0000011JE01GX
Title: SUPPLEMENTAL RESTRAINT SYSTEMS: OCCUPANT CLASSIFICATION ECU: INSTALLATION (2010 4Runner)		

INSTALLATION

1. INSTALL OCCUPANT CLASSIFICATION ECU



(a) Attach the claw to install the occupant classification ECU.

NOTICE:

If the occupant classification ECU has been dropped, or there are any cracks, dents or other defects in the case or connector, replace the occupant classification ECU with a new one.

(b) Connect the 2 connectors.

NOTICE:

When installing the occupant classification ECU, be careful that the SRS wiring does not interfere with other parts and that it is not pinched between other parts.

2. INSTALL FRONT SEAT ASSEMBLY RH

HINT:

3. ZERO POINT CALIBRATION AND SENSITIVITY CHECK

(a) Perform zero point calibration and the sensitivity check

4. PERFORM DIAGNOSTIC SYSTEM CHECK

5. CHECK SRS WARNING LIGHT

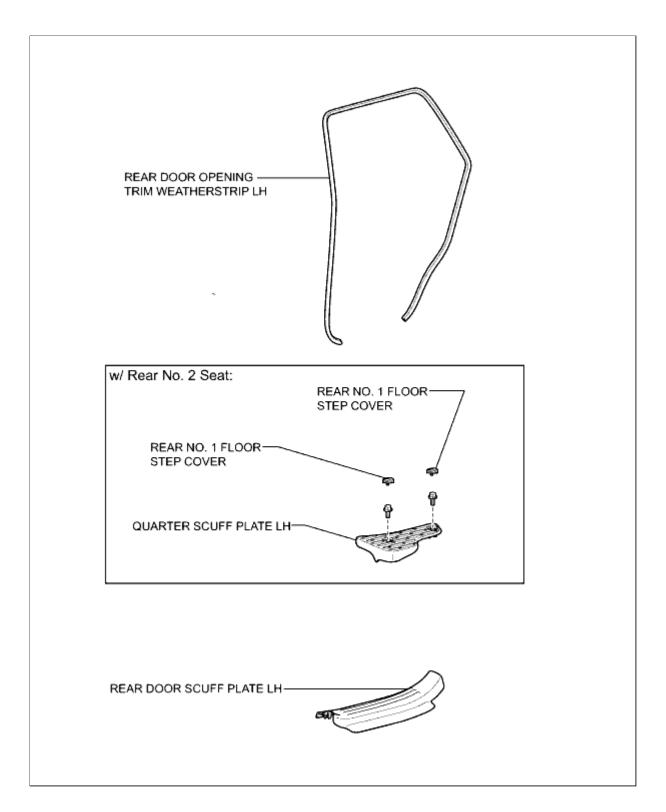
(a) Check the SRS warning light

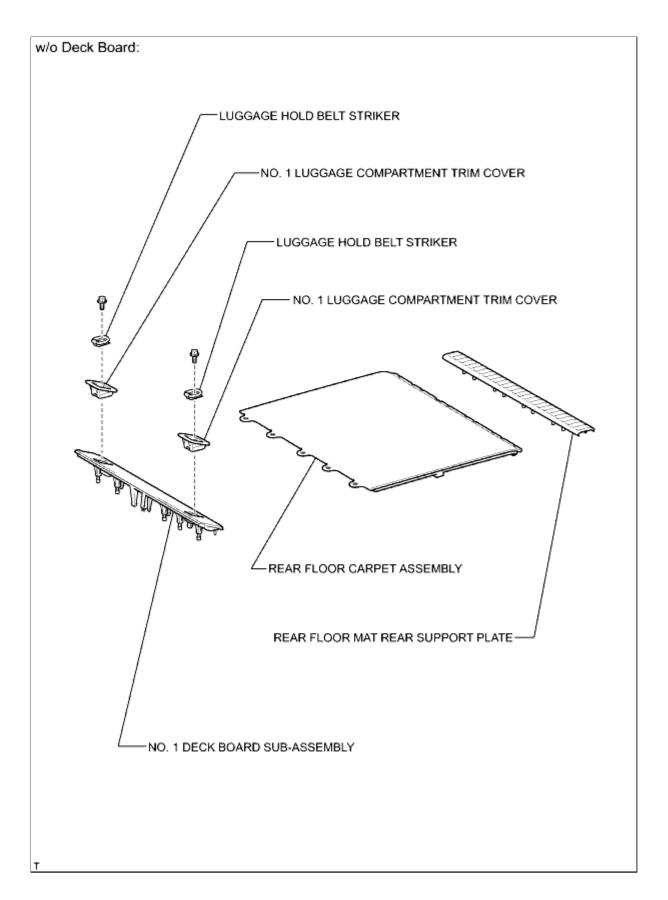
(9)

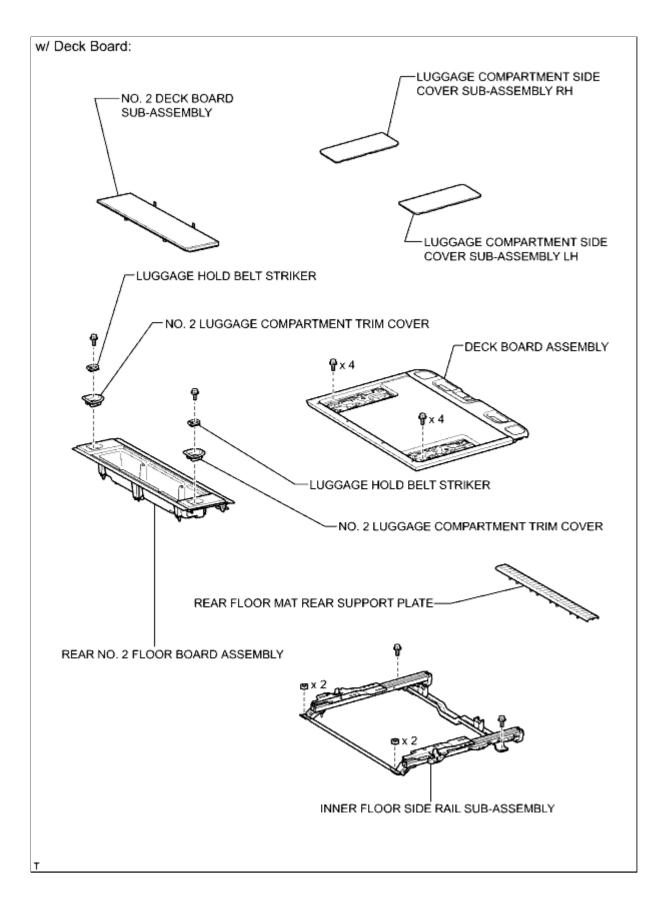
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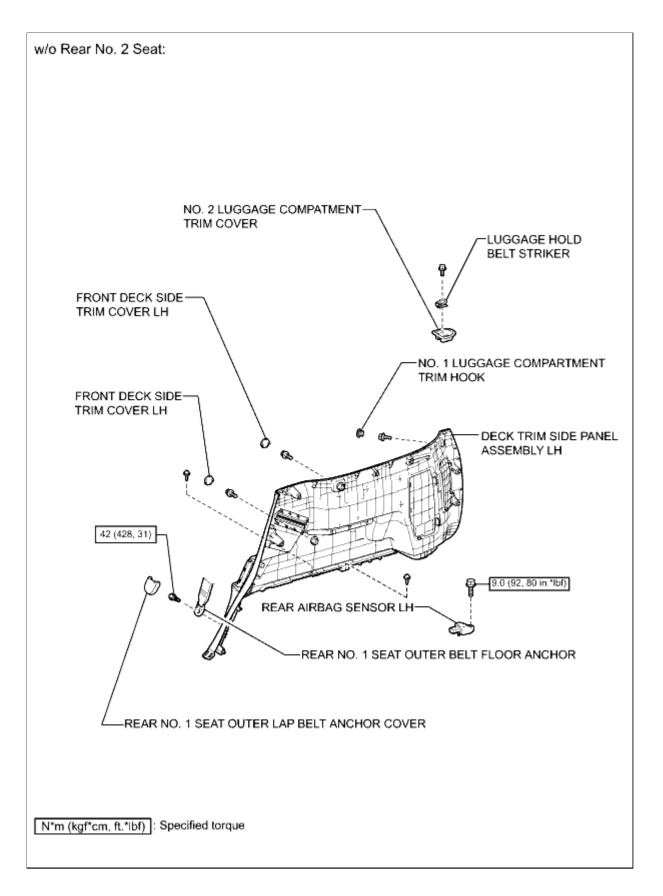
Last Modified: 5-10-2010	6.4 K	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000003YQM003X
Title: SUPPLEMENTAL RESTRAINT SYSTEMS: REAR AIRBAG SENSOR: COMPONENTS (2010		
4Runner)		

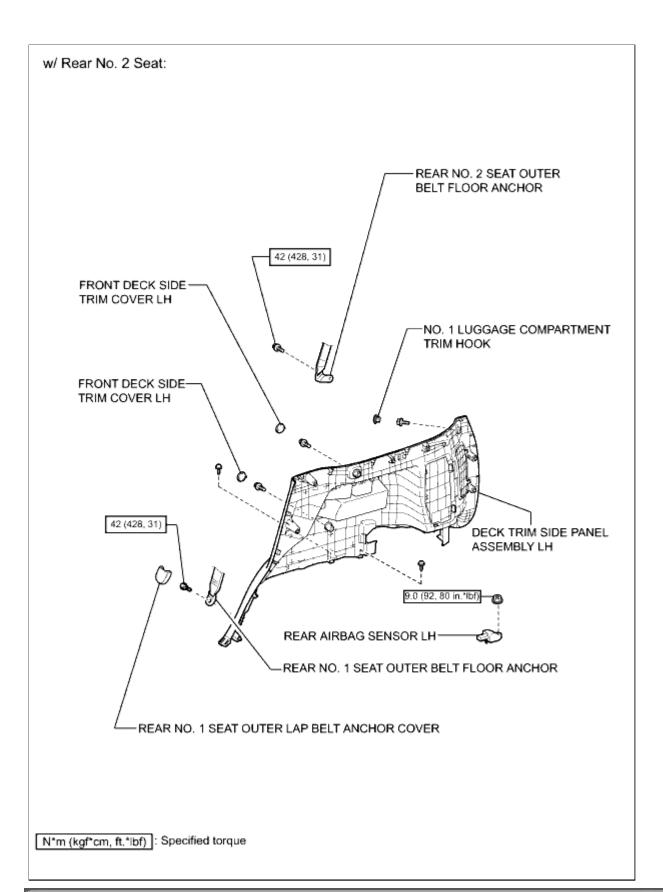
COMPONENTS ILLUSTRATION











(P)

Last Modified: 5-10-2010	6.4 G	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000003YQO003X
Title: SUPPLEMENTAL RESTRAINT SYSTEMS: REAR AIRBAG SENSOR: ON-VEHICLE		
INSPECTION (2010 4Runner)		

ON-VEHICLE INSPECTION

HINT:

- Use the same procedure for the RH and LH sides.
- The procedure listed below is for the LH side.

1. CHECK REAR AIRBAG SENSOR LH (VEHICLE NOT INVOLVED IN COLLISION)

2. CHECK REAR AIRBAG SENSOR LH (VEHICLE INVOLVED IN COLLISION AND AIRBAG HAS NOT DEPLOYED)

- (a) Perform a diagnostic system check
- (b) When the quarter panel of the vehicle or the surrounding area is damaged, check if there is any damage to the rear airbag sensor. If there are any defects as mentioned below, replace the rear airbag sensor with a new one:
 - Cracks, dents or chips on the sensor housing.
 - Cracks or other damage to the connector.
 - Peeling of the label or damage to the serial number.

CAUTION:

For removal and installation of the rear airbag sensor, be sure to follow the correct procedure.

3. CHECK REAR AIRBAG SENSOR LH (VEHICLE INVOLVED IN COLLISION AND AIRBAG HAS DEPLOYED)

- (a) When airbags have deployed as the result of a collision, be certain to replace all rear airbag sensors in the damaged area (anywhere in need of repair). Furthermore, it is also necessary to replace any rear airbag sensor in undamaged areas that have registered a major collision, or which exhibits any of the following abnormalities:
 - Cracks, dents or chips on the sensor housing.
 - Cracks or other damage to the connector.
 - Peeling of the label or damage to the serial number.

CAUTION:

For removal and installation of the rear airbag sensor, be sure to follow the correct procedure.

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Last Modified: 5-10-2010	6.4 A	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000003YQN003X
Title: SUPPLEMENTAL RESTRAINT SYSTEMS: REAR AIRBAG SENSOR: REMOVAL (2010		
4Runner)		

REMOVAL

HINT:

- Use the same procedure for the RH and LH sides.
- The procedure listed below is for the LH side.

1. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

CAUTION:

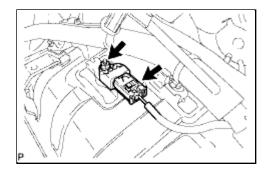
Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

NOTICE:

When disconnecting the cable, some systems need to be initialized after the cable is reconnected

- 2. REMOVE REAR NO. 2 SEAT ASSEMBLY (w/ Rear No. 2 Seat)
 - (a) Remove the rear No. 2 seat assembly
- 3. REMOVE REAR NO. 1 FLOOR STEP COVER (w/ Rear No. 2 Seat)
- 4. REMOVE QUARTER SCUFF PLATE LH (w/ Rear No. 2 Seat)
- 5. REMOVE REAR DOOR SCUFF PLATE LH
- 6. REMOVE REAR DOOR OPENING TRIM WEATHERSTRIP LH
- 7. REMOVE NO. 1 LUGGAGE COMPARTMENT TRIM COVER (w/o Deck Board)
- 8. REMOVE NO. 1 DECK BOARD SUB-ASSEMBLY (w/o Deck Board)
- 9. REMOVE NO. 2 LUGGAGE COMPARTMENT TRIM COVER (w/ Deck Board)
- 10. REMOVE NO. 2 DECK BOARD SUB-ASSEMBLY (w/ Deck Board)
- 11. REMOVE REAR NO. 2 FLOOR BOARD ASSEMBLY (w/ Deck Board)
- 12. REMOVE LUGGAGE COMPARTMENT SIDE COVER SUB-ASSEMBLY LH (w/ Deck Board) INFO
- 13. REMOVE LUGGAGE COMPARTMENT SIDE COVER SUB-ASSEMBLY RH (w/ Deck Board) INFO
- 14. REMOVE DECK BOARD ASSEMBLY (w/ Deck Board)
- 15. REMOVE INNER FLOOR SIDE RAIL SUB-ASSEMBLY (w/ Deck Board)
- 16. REMOVE REAR FLOOR MAT REAR SUPPORT PLATE

- 17. REMOVE REAR FLOOR CARPET ASSEMBLY (w/o Deck Board)
- 18. REMOVE REAR NO. 1 SEAT OUTER LAP BELT ANCHOR COVER
- 19. REMOVE NO. 1 LUGGAGE COMPARTMENT TRIM HOOK
- 20. REMOVE FRONT DECK SIDE TRIM COVER LH
- 21. REMOVE NO. 1 LUGGAGE COMPARTMENT TRIM COVER
- 22. REMOVE DECK TRIM SIDE PANEL ASSEMBLY LH
- 23. REMOVE REAR AIRBAG SENSOR LH



(a) Remove the nut and rear airbag sensor.

(b) Disconnect the connector.





Last Modified: 5-10-2010	6.4 A	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000003YQL003X
Title: SUPPLEMENTAL RESTRAINT SYSTEMS: REAR AIRBAG SENSOR: INSTALLATION (2010 4Runner)		

INSTALLATION

HINT:

- Use the same procedure for the RH and LH sides.
- The procedure listed below is for the LH side.

1. INSTALL REAR AIRBAG SENSOR LH

- (a) Turn the ignition switch off.
- (b) Disconnect the cable from the negative (-) battery terminal.

CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

NOTICE:

When disconnecting the cable, some systems need to be initialized after the cable is reconnected



(c) Install the rear airbag sensor with the nut.

Torque: 9.0 N·m (92 kgf·cm, 80in·lbf)

NOTICE:

- If the rear airbag sensor has been dropped, or there are any cracks, dents or other defects in the case, bracket or connector, replace it with a new one.
- When installing the rear airbag sensor, be careful that the SRS wiring does not interfere with other parts and that it is not pinched between other parts.
- (d) Check that the rear airbag sensor is not loose.
- (e) Connect the connector.
- 2. INSTALL DECK TRIM SIDE PANEL ASSEMBLY LH
- 3. INSTALL NO. 1 LUGGAGE COMPARTMENT TRIM COVER
- 4. INSTALL FRONT DECK SIDE TRIM COVER LH
- 5. INSTALL NO. 1 LUGGAGE COMPARTMENT TRIM HOOK
- 6. INSTALL REAR NO. 1 SEAT OUTER LAP BELT ANCHOR COVER
- 7. INSTALL REAR FLOOR CARPET ASSEMBLY (w/o Deck Board)
- 8. INSTALL REAR FLOOR MAT REAR SUPPORT PLATE MFO
- 9. INSTALL INNER FLOOR SIDE RAIL SUB-ASSEMBLY (w/ Deck Board)
- 10. INSTALL DECK BOARD ASSEMBLY (w/ Deck Board)
- 11. INSTALL LUGGAGE COMPARTMENT SIDE COVER SUB-ASSEMBLY LH (w/ Deck Board)

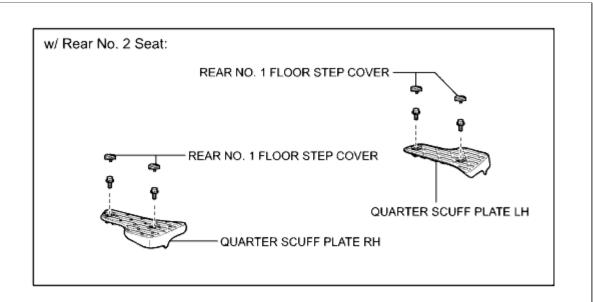
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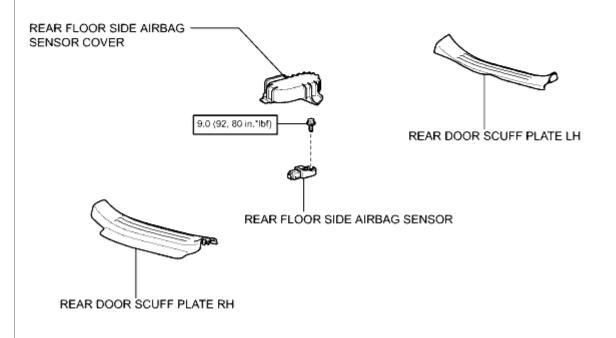
INFO
12. INSTALL LUGGAGE COMPARTMENT SIDE COVER SUB-ASSEMBLY RH (w/ Deck Board)
13. INSTALL REAR NO. 2 FLOOR BOARD ASSEMBLY (w/ Deck Board)
14. INSTALL NO. 2 DECK BOARD SUB-ASSEMBLY (w/ Deck Board)
15. INSTALL NO. 2 LUGGAGE COMPARTMENT TRIM COVER (w/ Deck Board)
16. INSTALL NO. 1 DECK BOARD SUB-ASSEMBLY (w/o Deck Board)
17. INSTALL NO. 1 LUGGAGE COMPARTMENT TRIM COVER (w/o Deck Board)
18. INSTALL REAR DOOR OPENING TRIM WEATHERSTRIP LH
19. INSTALL REAR DOOR SCUFF PLATE LH
20. INSTALL QUARTER SCUFF PLATE LH (w/ Rear No. 2 Seat)
21. INSTALL REAR NO. 1 FLOOR STEP COVER (w/ Rear No. 2 Seat)
22. INSTALL REAR NO. 2 SEAT ASSEMBLY (w/ Rear No. 2 Seat)
(a) Install the rear No. 2 seat assembly .
23. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL
CAUTION:
When disconnecting the cable, some systems need to be initialized after the cable is reconnected

24. CHECK SRS WARNING LIGHT

Last Modified: 5-10-2010	6.4 K	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM0000038MV00AX
Title: SUPPLEMENTAL RESTRAINT SYSTEMS: REAR FLOOR AIRBAG SENSOR: COMPONENTS (2010 4Runner)		

COMPONENTS ILLUSTRATION





N*m (kgf*cm, ft.*lbf) : Specified torque

(9)

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Last Modified: 5-10-2010	6.4 G	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM0000038MX00AX
Title: SUPPLEMENTAL RESTRAINT SYSTEMS: REAR FLOOR AIRBAG SENSOR: ON-VEHICLE		
INSPECTION (2010 4Runner)		

ON-VEHICLE INSPECTION

1. CHECK REAR FLOOR SIDE AIRBAG SENSOR (VEHICLE NOT INVOLVED IN COLLISION)

2. CHECK REAR FLOOR SIDE AIRBAG SENSOR (VEHICLE INVOLVED IN COLLISION AND AIRBAG HAS NOT DEPLOYED)

- (a) Perform a diagnostic system check
- (b) When the quarter panel of the vehicle or the surrounding area is damaged, check if there is any damage to the rear floor side airbag sensor. If there are any defects as mentioned below, replace the rear floor side airbag sensor with a new one:
 - Cracks, dents or chips on the sensor housing.
 - Cracks or other damage to the connector.
 - Peeling of the label or damage to the serial number.

CAUTION:

For removal and installation procedures of the rear floor airbag sensor, be sure to follow the correct procedure.

3. CHECK REAR FLOOR SIDE AIRBAG SENSOR (VEHICLE INVOLVED IN COLLISION AND AIRBAG HAS DEPLOYED)

- (a) When airbags have deployed as the result of a collision, be certain to replace the rear floor airbag sensor in the damaged area (anywhere in need of repair). Furthermore, it is also necessary to replace the rear floor airbag sensor in an undamaged area that has registered a major collision, or which exhibits any of the following abnormalities:
 - Cracks, dents or chips on the sensor housing.
 - Cracks or other damage to the connector.
 - Peeling of the label or damage to the serial number.

CAUTION:

For removal and installation procedures of the rear floor airbag sensor, be sure to follow the correct procedure.

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Last Modified: 5-10-2010	6.4 A	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM0000038MU00AX
Title: SUPPLEMENTAL RESTRAINT SYSTEMS: REAR FLOOR AIRBAG SENSOR: INSTALLATION		

INSTALLATION

1. INSTALL REAR FLOOR SIDE AIRBAG SENSOR

- (a) Turn the ignition switch off.
- (b) Disconnect the cable from the negative (-) battery terminal.

CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

NOTICE:

When disconnecting the cable, some systems need to be initialized after the cable is reconnected



(c) Install the rear floor airbag sensor with the bolt.

Torque: 9.0 N·m (92 kgf·cm, 80in·lbf)

NOTICE:

- If the rear floor airbag sensor has been dropped, or there are any cracks, dents or other defects in the case, bracket or connector, replace it with a new one.
- When installing the rear floor airbag sensor, be careful that the SRS wiring does not interfere with other parts and that it is not pinched between other parts.
- (d) Check that the rear floor airbag sensor is not loose.
- (e) Connect the connector.

2. INSTALL REAR FLOOR SIDE AIRBAG SENSOR COVER

- (a) Attach the clip and claw to install the cover.
- (b) Return the floor carpet to its original position.
- 3. INSTALL REAR DOOR SCUFF PLATE LH
- 4. INSTALL REAR DOOR SCUFF PLATE RH
- 5. INSTALL QUARTER SCUFF PLATE LH (w/ Rear No. 2 Seat)
- 6. INSTALL QUARTER SCUFF PLATE RH (w/ Rear No. 2 Seat)
- 7. INSTALL REAR NO. 1 FLOOR STEP COVER (w/ Rear No. 2 Seat)
- 8. INSTALL REAR NO. 1 SEAT ASSEMBLY
 - (a) for 60/40 Split Double-folding Seat Type LH Side
 - (b) for 60/40 Split Double-folding Seat Type RH Side
 - (c) for 60/40 Split Slide Walk-in Seat Type LH Side

- (d) for 60/40 Split Slide Walk-in Seat Type RH Side

9. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

NOTICE:

When disconnecting the cable, some systems need to be initialized after the cable is reconnected

10. CHECK SRS WARNING LIGHT

(a) Check the SRS warning light





Last Modified: 5-10-2010	6.4 A	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM0000038MW00AX
Title: SUPPLEMENTAL RESTRAINT SYSTEMS: REAR FLOOR AIRBAG SENSOR: REMOVAL (2010 4Runner)		

REMOVAL

1. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

CAUTION:

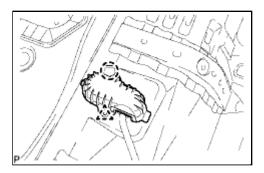
Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

NOTICE:

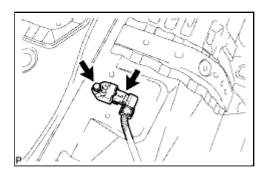
When disconnecting the cable, some systems need to be initialized after the cable is reconnected



- (a) for 60/40 Split Double-folding Seat Type LH Side
 - (1) Remove the rear No. 1 seat assembly
- (b) for 60/40 Split Double-folding Seat Type RH Side
- (c) for 60/40 Split Slide Walk-in Seat Type LH Side
- (d) for 60/40 Split Slide Walk-in Seat Type RH Side
- 3. REMOVE REAR NO. 1 FLOOR STEP COVER (w/ Rear No. 2 Seat)
- 4. REMOVE QUARTER SCUFF PLATE LH (w/ Rear No. 2 Seat)
- 5. REMOVE QUARTER SCUFF PLATE RH (w/ Rear No. 2 Seat)
- 6. REMOVE REAR DOOR SCUFF PLATE LH
- 7. REMOVE REAR DOOR SCUFF PLATE RH
- 8. REMOVE REAR FLOOR SIDE AIRBAG SENSOR COVER
 - (a) Fold back the floor carpet.



9. REMOVE REAR FLOOR SIDE AIRBAG SENSOR



(a) Remove the bolt and sensor.

(b) Disconnect the connector.

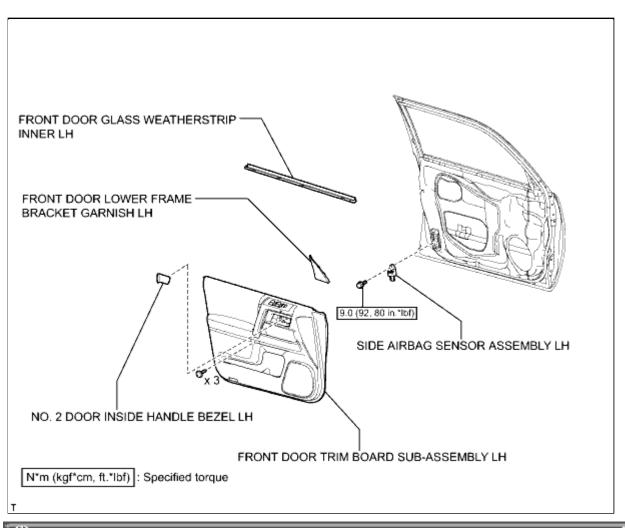


Last Modified: 5-10-2010	6.4 K	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000003YQI003X
Title: SUPPLEMENTAL RESTRAINT SYSTEMS: SIDE AIRBAG SENSOR: COMPONENTS (2010		

COMPONENTS

4Runner)

ILLUSTRATION



E (C) TOYOTA

Last Modified: 5-10-2010	6.4 G	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000003YQK003X
Title: SUPPLEMENTAL RESTRAINT SYSTEMS: SIDE AIRBAG SENSOR: ON-VEHICLE		

ON-VEHICLE INSPECTION

HINT:

- Use the same procedure for the RH and LH sides.
- The procedure listed below is for the LH side.

1. CHECK SIDE AIRBAG SENSOR ASSEMBLY LH (VEHICLE NOT INVOLVED IN COLLISION)

2. CHECK SIDE AIRBAG SENSOR ASSEMBLY LH (VEHICLE INVOLVED IN COLLISION AND AIRBAG HAS NOT DEPLOYED)

- (b) When the center pillar of the vehicle or the surrounding area is damaged, check if there is any damage to the side airbag sensor. If there are any defects as mentioned below, replace the side airbag sensor with a new one:
 - Cracks, dents or chips on the sensor housing.
 - Cracks or other damage to the connector.
 - Peeling of the label or damage to the serial number.

CAUTION:

For removal and installation of the side airbag sensor, be sure to follow the correct procedure.

3. CHECK SIDE AIRBAG SENSOR ASSEMBLY LH (VEHICLE INVOLVED IN COLLISION AND AIRBAG HAS DEPLOYED)

(a) When airbags have deployed as the result of a collision, be certain to replace all side airbag sensors in the damaged area (anywhere in need of repair).

Furthermore, it is also necessary to replace any side airbag sensors in undamaged areas that have registered a major collision, or which exhibit any of the following abnormalities:

- Cracks, dents or chips on the sensor housing.
- Cracks or other damage to the connector.
- Peeling of the label or damage to the serial number.

CAUTION:

For removal and installation of the side airbag sensor, be sure to follow the correct procedure.

⊕ ⊕ TOYOTA

Last Modified: 5-10-2010	6.4 A	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000003YQJ003X
Title: SUPPLEMENTAL RESTRAINT SYSTEMS: SIDE AIRBAG SENSOR: REMOVAL (2010 4Runner)		

REMOVAL

HINT:

- Use the same procedure for the RH and LH sides.
- The procedure listed below is for the LH side.

1. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

CAUTION:

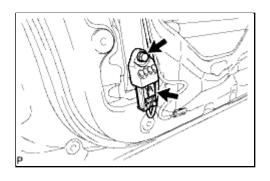
Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

NOTICE:

When disconnecting the cable, some systems need to be initialized after the cable is reconnected



- 2. REMOVE FRONT DOOR LOWER FRAME BRACKET GARNISH LH
- 3. REMOVE NO. 2 DOOR INSIDE HANDLE BEZEL LH
- 4. REMOVE FRONT DOOR TRIM BOARD SUB-ASSEMBLY LH
- 5. REMOVE FRONT DOOR GLASS WEATHERSTRIP INNER LH
- 6. REMOVE SIDE AIRBAG SENSOR ASSEMBLY LH



(a) Disconnect the connector.

(b) Remove the bolt and side airbag sensor.

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(#) TOYOTA

Last Modified: 5-10-2010	6.4 A	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000003YQH003X
Title: SUPPLEMENTAL RESTRAINT SYSTEMS: SIDE AIRBAG SENSOR: INSTALLATION (2010 4Runner)		

INSTALLATION

HINT:

- Use the same procedure for the RH and LH sides.
- The procedure listed below is for the LH side.

1. INSTALL SIDE AIRBAG SENSOR ASSEMBLY LH

- (a) Turn the ignition switch off.
- (b) Disconnect the cable from the negative (-) battery terminal.

CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

NOTICE:

When disconnecting the cable, some systems need to be initialized after the cable is reconnected



(c) Install the side airbag sensor with the bolt.

Torque: 9.0 N·m (92 kgf·cm, 80in·lbf)

NOTICE:

- If the side airbag sensor has been dropped, or there are any cracks, dents or other defects in the case, bracket or connector, replace it with a new one.
- When installing the side airbag sensor, be careful that the SRS wiring does not interfere with other parts and that it is not pinched between other parts.
- (d) Check that the side airbag sensor is not loose.
- (e) Connect the connector.
- 2. INSTALL FRONT DOOR GLASS WEATHERSTRIP INNER LH
- 3. INSTALL FRONT DOOR TRIM BOARD SUB-ASSEMBLY LH
- 4. INSTALL NO. 2 DOOR INSIDE HANDLE BEZEL LH
- 5. INSTALL FRONT DOOR LOWER FRAME BRACKET GARNISH LH
- 6. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

NOTICE:

When disconnecting the cable, some systems need to be initialized after the cable is reconnected



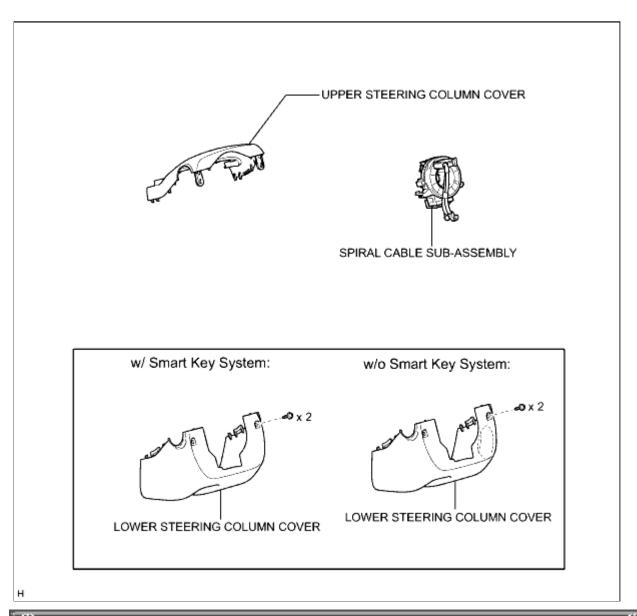
7. CHECK SRS WARNING LIGHT

(a) Check the SRS warning light

Last Modified: 5-10-2010	6.4 K	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000003YPQ001X
Title: SUPPLEMENTAL RESTRAINT SYSTEMS: SPIRAL CABLE: COMPONENTS (2010 4Runner)		

COMPONENTS

ILLUSTRATION

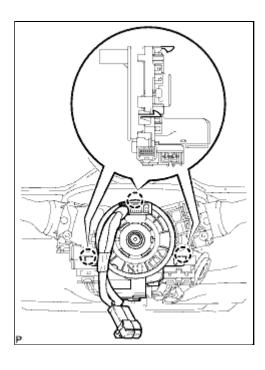


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Last Modified: 5-10-2010	6.4 A	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000003YPR001X
Title: SUPPLEMENTAL RESTRAINT SYSTEMS: SPIRAL CABLE: REMOVAL (2010 4Runner)		

REMOVAL

- 1. REMOVE STEERING WHEEL ASSEMBLY
- 2. REMOVE LOWER STEERING COLUMN COVER
- 3. REMOVE UPPER STEERING COLUMN COVER
- 4. REMOVE SPIRAL CABLE SUB-ASSEMBLY



(a) Disconnect the connectors from the spiral cable.

NOTICE:

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

(b) Detach the 3 claws and remove the spiral cable.

NOTICE:

- Do not replace the spiral cable sub-assembly when the ignition switch is O N and the battery cable is connected.
- Do not rotate the spiral cable when the ignition switch is ON and the battery cable is connected.
- Make sure the steering wheel is installed and centered before rotating the steering angle sensor when performing steering angle sensor operation inspections (inspecting for abnormal noise, diagnosis inspections, etc.).
- Do not remove the steering angle sensor from the spiral cable.

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Last Modified: 5-10-2010	6.4 G	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM00000208V00NX
Title: SUPPLEMENTAL RESTRAINT SYSTEMS: SPIRAL CABLE: INSPECTION (2010 4Runner)		

INSPECTION

1. INSPECT SPIRAL CABLE SUB-ASSEMBLY

(a) If there are any defects as mentioned below, replace the spiral cable with a new one:

Scratches, cracks, dents or chips in the connector or spiral cable.

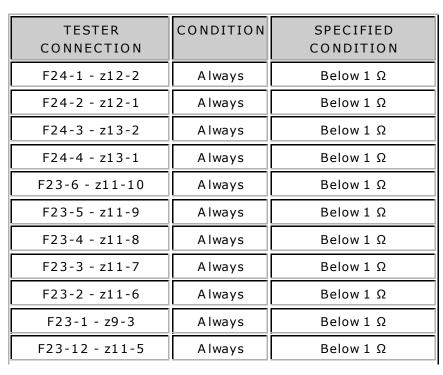
(b) Check the spiral cable.

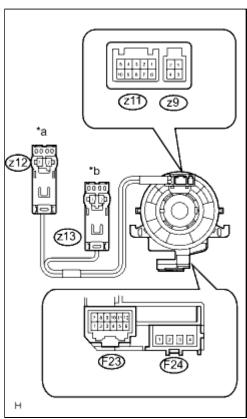
Text in Illustration

*a	O range
* b	Black

(2) After setting the spiral cable to the center position, rotate the spiral cable 2.5 times clockwise and measure the resistance according to the value(s) in the table below. Then rotate the spiral cable 5 times counterclockwise and measure the resistance according to the value(s) in the table below.

Standard Resistance:





F23-11 - z11-4	Always	Below 1 Ω
F23-10 - z11-3	Always	Below 1 Ω
F23-9 - z11-2	Always	Below 1 Ω
F23-8 - z11-1	Always	Below 1 Ω
F23-7 - z9-1	Always	Below 1 Ω

(3) After setting the spiral cable to the center position, rotate the spiral cable 2.5 times clockwise. Then, while rotating the spiral cable 5 times counterclockwise, measure the resistance according to the value(s) in the table below.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
F24-1 - z12-2	Always	Below 1 Ω
F24-2 - z12-1	Always	Below 1 Ω
F24-3 - z13-2	Always	Below 1 Ω
F24-4 - z13-1	Always	Below 1 Ω
F23-6 - z11-10	Always	Below 1 Ω
F23-5 - z11-9	Always	Below 1 Ω
F23-4 - z11-8	Always	Below 1 Ω
F23-3 - z11-7	Always	Below 1 Ω
F23-2 - z11-6	Always	Below 1 Ω
F23-1 - z9-3	Always	Below 1 Ω
F23-12 - z11-5	Always	Below 1 Ω
F23-11 - z11-4	Always	Below 1 Ω
F23-10 - z11-3	Always	Below 1 Ω
F23-9 - z11-2	Always	Below 1 Ω
F23-8 - z11-1	Always	Below 1 Ω
F23-7 - z9-1	Always	Below 1 Ω

NOTICE:

As the spiral cable may break, do not rotate the spiral cable more than the specified amount.

Last Modified: 5-10-2010	6.4 A	From: 200908		
Model Year: 2010	Model: 4Runner	Doc ID: RM000003YPO001X		
Title: SUPPLEMENTAL RESTRAINT SYSTEMS: SPIRAL CABLE: INSTALLATION (2010 4Runner)				

INSTALLATION

1. INSTALL SPIRAL CABLE SUB-ASSEMBLY

(a) Attach the 3 claws to install the spiral cable.

CAUTION:

When replacing the spiral cable with a new one, remove the lock pin before installing the steering wheel assembly.

(b) Connect the connectors to the spiral cable.

NOTICE:

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

2. INSTALL UPPER STEERING COLUMN COVER



3. INSTALL LOWER STEERING COLUMN COVER MFO



4. ADJUST SPIRAL CABLE SUB-ASSEMBLY

- (a) Turn the ignition switch off.
- (b) Disconnect the cable from the negative (-) battery terminal.

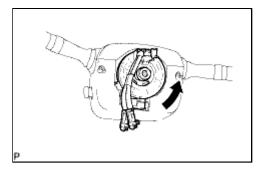
CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

NOTICE:

When disconnecting the cable, some systems need to be initialized after the cable is reconnected





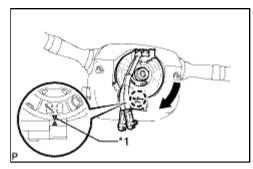
(c) Rotate the spiral cable counterclockwise slowly by hand until it feels firm.

CAUTION:

Do not turn the spiral cable by the airbag wire harness.

(d) Rotate the spiral cable clockwise approximately 2.5 turns to align the marks.

Text in Illustration



* 1 Mark

CAUTION:

Do not turn the spiral cable by the airbag wire harness.

HINT:

The spiral cable can be rotated approximately 2.5 turns to both the left and right from the center position.

5. INSTALL STEERING WHEEL ASSEMBLY

(a) Install the steering wheel assembly MFO



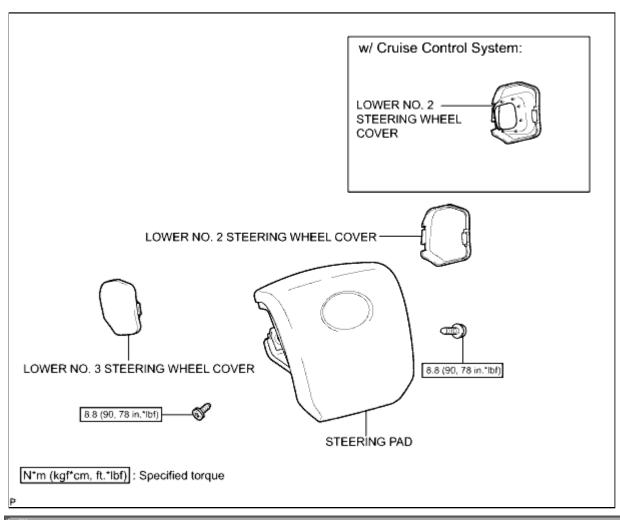




Last Modified: 5-10-2010	6.4 K	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM0000038N000CX
Title: SUPPLEMENTAL RESTRAINT SYSTEMS: STEERING PAD: COMPONENTS (2010 4Runner)		

COMPONENTS

ILLUSTRATION



(#) TOYOTA

Last Modified: 5-10-2010	6.4 G	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM0000038N200CX
Title: SUPPLEMENTAL RESTRAINT SYSTEMS: STEERING PAD: ON-VEHICLE INSPECTION		

ON-VEHICLE INSPECTION

1. CHECK STEERING PAD (VEHICLE NOT INVOLVED IN COLLISION)

- (b) With the steering pad installed on the vehicle, perform a visual check. If there are any defects as mentioned below, replace the steering pad with a new one:

Cuts, minute cracks or marked discoloration on the steering pad top surface or in the grooved portion.

2. CHECK STEERING PAD (VEHICLE INVOLVED IN COLLISION AND AIRBAG HAS NOT DEPLOYED)

- (a) Perform a diagnostic system check
- (b) With the steering pad removed from the vehicle, perform a visual check. If there are any defects as mentioned below, replace the steering pad or steering wheel with a new one:
 - Cuts, minute cracks or marked discoloration on the steering pad top surface or in the grooved portion.
 - Cracks or other damage to the connectors.
 - Deformation of the steering pad contact plate.
 - Deformation of the steering wheel.

HINT:

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

CAUTION:

For removal and installation procedures of the steering pad, be sure to follow the correct procedure.

(9)

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Last Modified: 5-10-2010	6.4 A	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM0000038N100CX
Title: SUPPLEMENTAL RESTRAINT SYSTEMS: STEERING PAD: REMOVAL (2010 4Runner)		

REMOVAL

1. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

CAUTION:

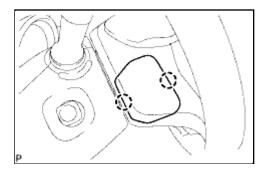
Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

NOTICE:

When disconnecting the cable, some systems need to be initialized after the cable is reconnected

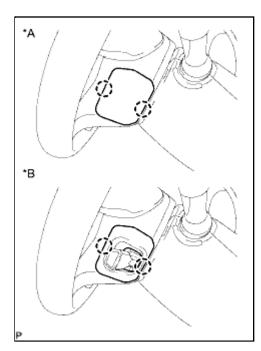


2. REMOVE LOWER NO. 3 STEERING WHEEL COVER



(a) Detach the 2 claws and remove the cover.

3. REMOVE LOWER NO. 2 STEERING WHEEL COVER

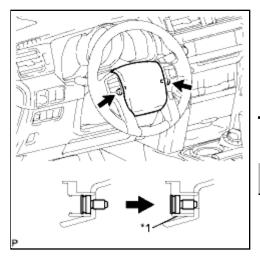


(a) Detach the 2 claws and remove the cover.

Text in Illustration

* A	w/o Cruise Control System
*B	w/ Cruise Control System

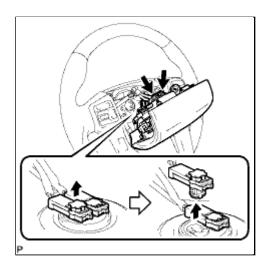
4. REMOVE STEERING PAD



(a) Using a T30 "TORX" socket wrench, loosen the 2 screws until the groove along the screw circumference catches on the screw case.

Text in Illustration

*1	Screw Case
-	Joelew Case



(b) Pull out the steering pad from the steering wheel as shown in the illustration. Then support the steering pad with one hand.

NOTICE:

When removing the steering pad, do not pull the airbag wire harness.

- (c) Disconnect the horn connector.
- (d) Disconnect the 2 connectors and remove the steering pad.

NOTICE:

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

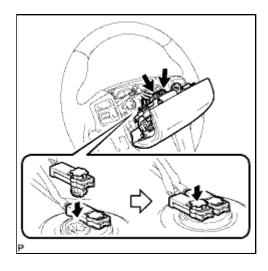
(9)

(#) TOYOTA

Last Modified: 5-10-2010	6.4 A	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM0000038MZ00CX
Title: SUPPLEMENTAL RESTRAINT SYSTEMS: STEERING PAD: INSTALLATION (2010 4Runner)		

INSTALLATION

1. INSTALL STEERING PAD



(a) Support the steering pad with one hand.

(b) Connect the 2 connectors to the steering pad.

NOTICE:

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

- (c) Connect the horn connector.
- (d) Confirm that the groove along the circumference of the "TORX" screw is attached to the screw case and place the steering pad onto the steering wheel.
- (e) Using a T30 "TORX" socket wrench, tighten the 2 screws.

Torque: 8.8 N·m (90 kgf·cm, 78in·lbf)

2. INSTALL LOWER NO. 3 STEERING WHEEL COVER

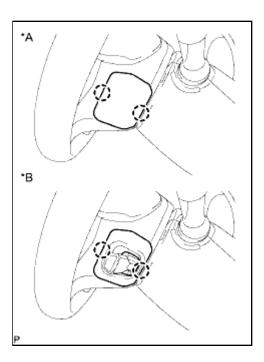
(a) Attach the 2 claws to install the cover.

3. INSTALL LOWER NO. 2 STEERING WHEEL COVER

(a) Attach the 2 claws to install the cover.

Text in Illustration

* A	w/o Cruise Control System
*B	w/ Cruise Control System



4. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

NOTICE:

When disconnecting the cable, some systems need to be initialized after the cable is reconnected



5. INSPECT STEERING PAD

- (a) With the steering pad installed on the vehicle, perform a visual check. If there are any defects as mentioned below, replace the steering pad with a new one:
 - Cuts, minute cracks or marked discoloration on the steering pad top surface or in the grooved portion.
- (b) Make sure that the horn sounds.

If the horn does not sound, inspect the horn system.

6. CHECK SRS WARNING LIGHT

(a) Check the SRS warning light

(10)

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Last Modified: 5-10-2010	6.4 N	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM0000038MY00DX
Title: SUPPLEMENTAL RESTRAINT SYSTEMS: STEERING PAD: DISPOSAL (2010 4Runner)		

DISPOSAL

CAUTION:

Before performing pre-disposal deployment of any SRS part, review and closely follow all applicable environmental and hazardous material regulations. Pre-disposal deployment may be considered hazardous material treatment.

1. PRECAUTION

HINT:

When scrapping a vehicle equipped with the SRS or disposing of the steering pad, be sure to deploy the airbag first 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.

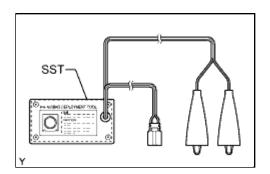
CAUTION:

- Never dispose of a steering pad that has an unactivated airbag.
- The airbag produces an exploding sound when it is deployed, so perform the operation outdoors and where it will not create a nuisance to nearby residents.
- When deploying the airbag, always use the specified SST (SRS Airbag Deployment Tool). Perform the operation in a place away from electrical noise.
- When deploying the airbag, perform the operation at least 10 m (32.8 ft.) away from the steering pad.
- The steering pad becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.
- Use gloves and safety glasses when handling a steering pad with a deployed airbag.
- Do not apply water, etc. to a steering pad with a deployed airbag.
- Always wash your hands with water after completing the operation.
- An airbag or pretensioner may be activated by static electricity. To prevent this, be sure to touch a metal surface with bare hands to discharge static electricity before performing this procedure.

2. DISPOSE OF STEERING PAD (WHEN INSTALLED IN VEHICLE)

HINT:

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



(a) Check the function of SST

(b) Read the precaution .

(c) Disconnect the cable from the negative (-) battery terminal.

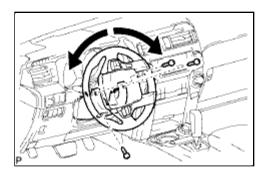
CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

NOTICE:

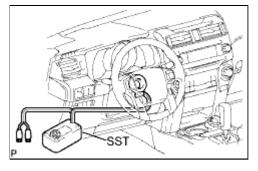
When disconnecting the cable, some systems need to be initialized after the cable is reconnected





- (d) Remove the steering column cover lower.
 - (1) While turning the steering wheel to the right and left, remove the 3 screws and steering column cover lower.

(e) Install SST.



SST: 09082-00700

CAUTION:

Check that there is no looseness in the steering wheel assembly and steering pad.

(1) Disconnect the airbag connector (yellow colored) from the spiral cable with steering sensor.

NOTICE:

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

(2) Connect SST connector to the airbag connector of the spiral cable with steering sensor.

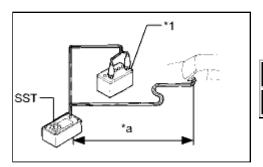
SST: 09082-00780

NOTICE:

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

(3) Move SST at least 10 m (32.8 ft.) away from the vehicle front side window.

Text in Illustration



*1	Battery
*a	10 m or more

(4) Maintaining enough clearance for SST wire harness in the front side window, close all doors and windows of the vehicle.

NOTICE:

Take care not to damage SST wire harness.

- (5) Connect the red clip of SST to the positive (+) battery terminal and the black clip of SST to the negative (-) battery terminal.
- (f) Deploy the airbag.
 - (1) Check that no one is inside the vehicle or within a 10 m (32.8 ft.) radius of the vehicle.
 - (2) Press SST activation switch to deploy the airbag.

CAUTION:

- When deploying the airbag, make sure that no one is near the vehicle.
- The steering pad becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.
- Use gloves and safety glasses when handling a steering pad with a deployed airbag.
- Do not apply water to a steering pad with a deployed airbag.
- Always wash your hands with water after completing the operation.

HINT:

The airbag is deployed as the LED of SST activation switch comes on.

3. DISPOSE OF STEERING PAD (WHEN NOT INSTALLED IN VEHICLE)

CAUTION:

Be sure to follow the procedure detailed below when deploying the airbag.

HINT:

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

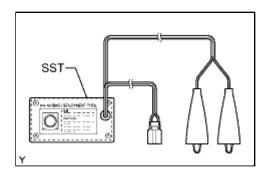
(a) Check the function of SST.

SST: 09082-00700

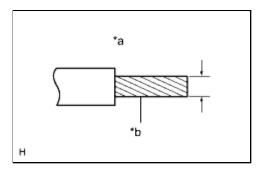
(b) Remove the steering pad

CAUTION:

• When removing the steering pad, wait at least 90 seconds after the engine switch is turned off and the cable is disconnected from the negative (-) battery terminal before



- starting work.
- When storing the steering pad, keep the airbag deployment side facing upward.
- (c) Using a service-purpose wire harness for the vehicle, tie down the steering pad to a disc wheel.



Text in Illustration

* a	Wire Harness Diameter
* b	Stripped Wire Harness Section

Cross-sectional area of stripped wire harness section:

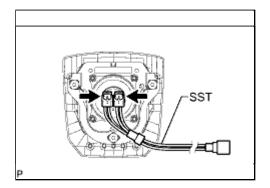
1.25 mm² (0.00192 in.²)

CAUTION:

If the wire harness is too thin or an alternative object is used to tie down the steering pad, it may be snapped by the shock when the airbag is deployed. Always use a wire harness for vehicle use with a cross-sectional area of at least 1.25 mm² (0.00192 in.²).

HINT:

To calculate the cross-sectional area of the stripped wire harness section: Area = $3.14 \times (Diameter)^2 / 4$



(1) Install 2 bolts with washers into the 2 bolt holes on the steering pad.

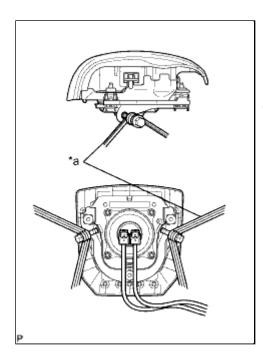
Bolt:

L: 35.0 mm (1.38 in.)

M: 6.0 mm (0.236 in.) (2) After connecting SST to each other, connect them to Pitch: 1.0 mm (0.0393 in.) the steering pad.

NOTSST: 09082-00820

- Tighten the bolts by hand until they become difficult to turn.
- Do not tighten the bolts excessively.



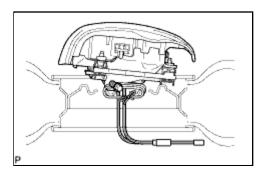
(3) Wind 3 wire harnesses at least 2 times each around the bolts installed on the left and right sides of the steering pad.

Text in Illustration

*a 2 times or more

CAUTION:

- Tightly wind the wire harnesses around the bolts so that there is no slack.
- Make sure that the wire harnesses are tight. If there is slack in the wire harnesses, the steering pad may become loose due to the shock when the airbag is deployed.



(4) Face the airbag deployment side of the steering pad upward. Separately tie the left and right sides of the steering pad to a disc wheel through the hub nut holes. Position SST connector so that it hangs downward through the hub hole of the disc wheel.

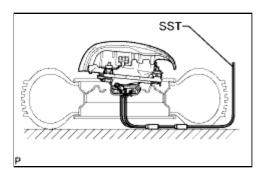
CAUTION:

- Make sure that the wire harnesses are tight. If there is slack in the wire harnesses, the steering pad may become loose due to the shock when the airbag is deployed.
- Always tie down the steering pad with the airbag deployment side facing upward.

NOTICE:

As the disc wheel may be damaged by the airbag deployment, use a disc wheel that you are planning to throw away.

(d) Install SST.



CAUTION:

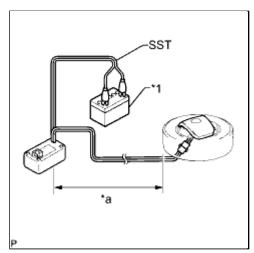
Place the disc wheel on level ground.

(1) Connect SST connector.

SST: 09082-00700

NOTICE:

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

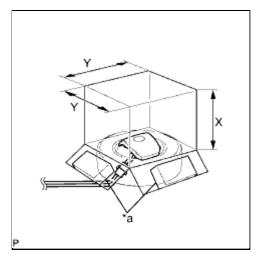


(2) Move SST at least 10 m (32.8 ft.) away from the steering pad tied down to the disc wheel.

Text in Illustration

*1	Battery
* a	10 m or more

(e) Cover the steering pad with a cardboard box or tires.



Text in Illustration

* a	Weight
<u> </u>	Weight

(1) Covering method using a cardboard box: Cover the steering pad with the cardboard box and place weights on the cardboard box in 4 places with a total of at least 190 N (19 kgf, 41.8 lbf).

Cardboard box size:

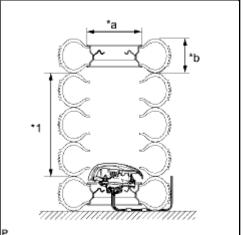
Must exceed the following dimensions

X: 460 mm (18.1 in.) Y: 650 mm (25.6 in.)

NOTICE:

- When dimension Y of the cardboard box exceeds the diameter of the tire with disc wheel which the steering pad is tied to, X should be the following size. X = 460 mm (18.1 in.) + width of tire
- If a cardboard box which is smaller than the specified size is used, the cardboard box will be damaged by the shock from the airbag deployment.
 - (2) Covering method using tires: Place at least 3 tires without disc wheels on the tire with disc wheel which the steering pad is tied to. Place another tire with disc wheel on them.

Text in Illustration



*1	Tires (3 or more)
* a	Inner Diameter
* b	Width

Tire size:

Must exceed the following dimensions

Width: 185 mm (7.28 in.)

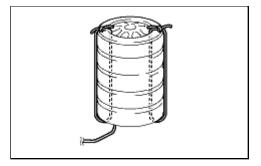
Inner diameter: 360 mm (14.2 in.)

CAUTION:

Do not use tires with disc wheels except on the top and bottom.

NOTICE:

- As the tires may be damaged by the airbag deployment, use tires that you are planning to throw away.
- Do not place SST connector under the tire because it could be damaged.

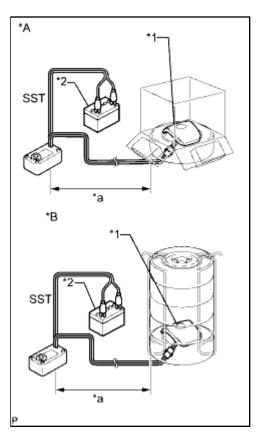


(3) Tie the tires together with 2 wire harnesses.

CAUTION:

Make sure that the wire harnesses are tight. Looseness in the wire harnesses results in the tires coming free due to the shock when the airbag is deployed.

(f) Deploy the airbag.



Text in Illustration

* A	Using Cardboard Box
* B	Using Tires
*1	Steering Pad
*2	Battery
* a	10 m or more

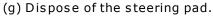
- (1) Connect the red clip of SST to the positive (+) battery terminal and the black clip of SST to the battery negative (-) battery terminal.
- (2) Check that no one is within a 10 m (32.8 ft.) radius of the disc wheel which the steering pad is tied to.
- (3) Press SST activation switch to deploy the airbag.

CAUTION:

When deploying the airbag, make sure that no one is near the tire.

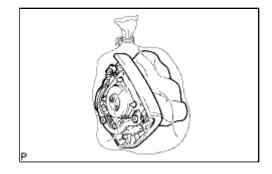
HINT:

The airbag is deployed as the LED of SST activation switch comes on.



CAUTION:

- The steering pad becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.
- Use gloves and safety glasses when handling a steering pad with a deployed airbag.
- Do not apply water to a steering pad with a deployed airbag.
- Always wash your hands with water after completing the operation.
 - (1) Remove the steering pad from the disc wheel.
 - (2) Place the steering pad in a plastic bag, tie it tightly and dispose of it in the same way as other general parts.



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