

## IMPORTANT UPDATE

**TECHNICAL INSTRUCTIONS  
FOR  
SAFETY RECALL D3F  
FRONT PASSENGER AIRBAG INFLATOR MODULE  
CERTAIN 2003 – 2004 MODEL YEAR TUNDRA  
2002 – EARLY 2004 MODEL YEAR SEQUOIA  
SSC D0F IS NO LONGER APPLICABLE**

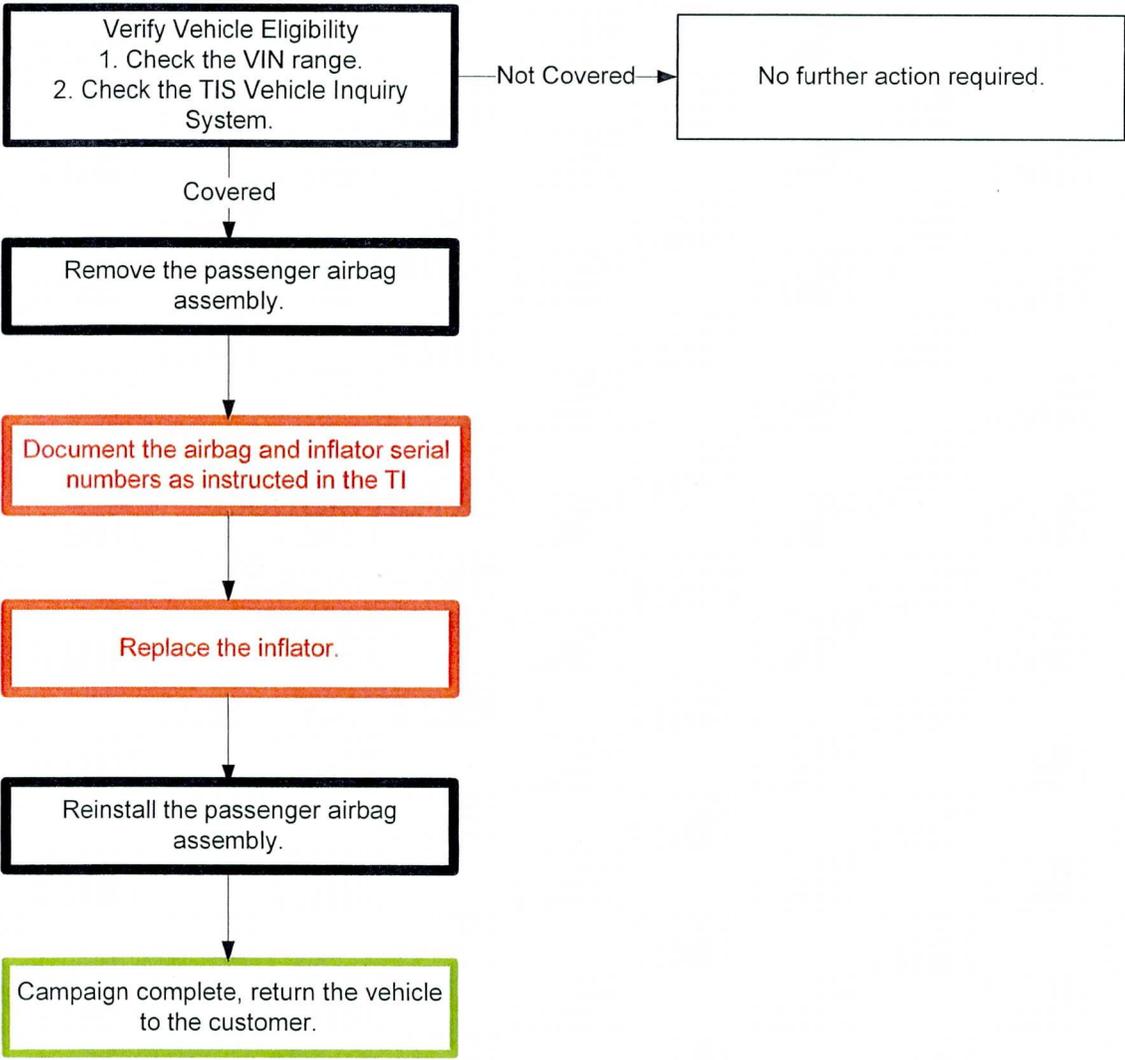
**ONLY TECHNICIANS WHO HAVE COMPLETED TRAINING COURSES SC13A, SC13B, AND HAVE THE FOLLOWING LEVEL OF CERTIFICATION CAN PERFORM THIS REPAIR:**

- **ELECTRICAL EXPERT TECHNICIANS**
- **MASTER TECHNICIANS**
- **MASTER DIAGNOSTIC TECHNICIANS**

[Complete D0F Technical Video Supplement](#)

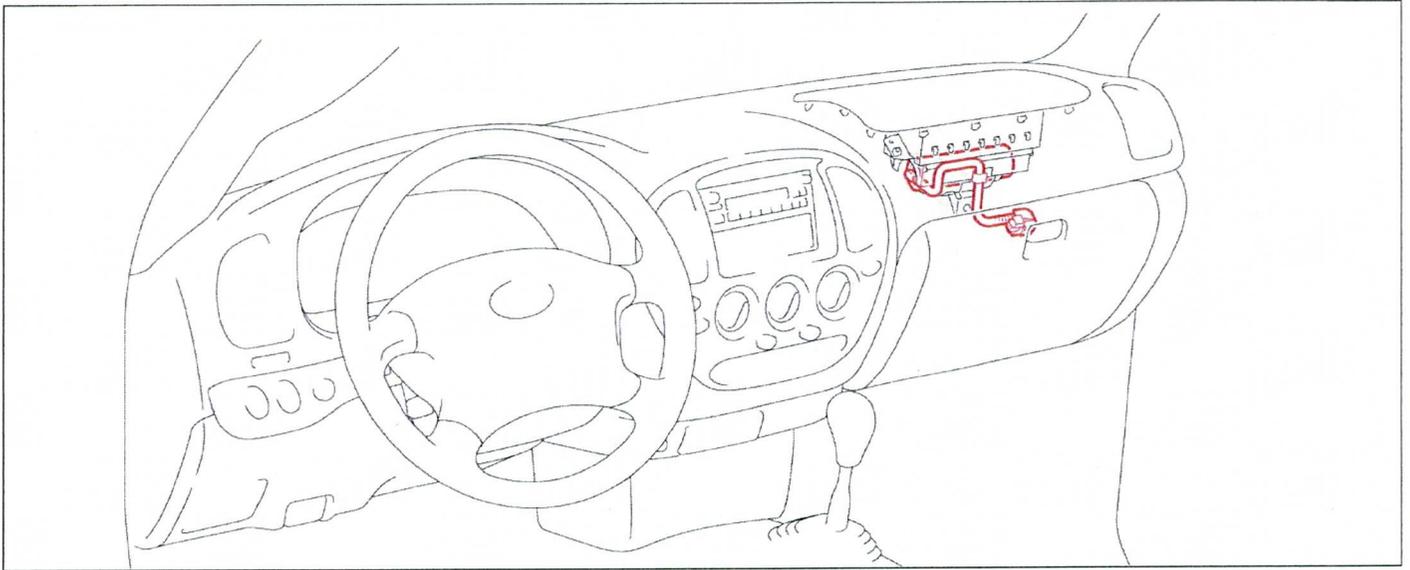
# I. OPERATION FLOW CHART

The flow chart is for reference only. **DO NOT** use it in place of the full technical instructions. Follow **ALL** steps as outlined in the full technical instructions to confirm the campaign is completed correctly.



## II. BACKGROUND

The subject vehicles are equipped with front passenger airbag inflators which could have been assembled with improperly manufactured propellant wafers. Improperly manufactured propellant wafers could cause the inflator to rupture and the front passenger airbag to deploy abnormally in the event of a crash, increasing the risk of injury to the occupant.



### III. IDENTIFICATION OF AFFECTED VEHICLES

#### A. COVERED VIN RANGE

Model	WMI	Year	VIN Range	
			VDS	Range
Sequoia	5TD	2002	BT44A	S105679-S137479
		2003		S101211-S181304
		2002	BT48A	S105332-S137474
		2003		S100652-S181302
		2002	ZT34A	S105617-S137484
		2003		S100034-S181311
		2004		S237174-S237174
		2002	ZT38A	S105454-S137473
		2003		S100343-S181296
Tundra	5TB	2003	BN441	S332744-S398296
		2004		S435495-S435495
		2003	BT441	S316368-S425621
		2004		S442936-S442936
		2003	BT481	S306031-S398309
		2004		S445112-S445112
			DT441	S439597-S460798
			DT481	S439032-S455784
			ET341	S461298-S461298
		2003	JN321	S332745-S398299
			KT441	S330788-S398060
			RN341	S307943-S398308
			RT341	S306032-S398301
		2004		S439819-S454581
		2003	RT381	S308386-S398306
		2004		S443733-S443733

**NOTE:**

- Check the TIS Vehicle Inquiry System to confirm the VIN is involved in this Safety Recall, and that the campaign has not already been completed prior to dealer shipment or by another dealer.
- **TMS warranty will not reimburse dealers for repairs conducted on vehicles that are not affected or were completed by another dealer.**

## IV. PREPARATION

### A. PARTS

Part Number	Part Description	Quantity
04003-2810C	Instrument Panel Airbag Inflator Kit*	1
*The kit above includes the following parts.		
	Inflator	1
	Self Locking Nut	4
	Electro Tap	1

### B. TOOLS & EQUIPMENT

- Standard hand tools
- Torque wrench
- Molding remover set
- Techstream

**OPTIONAL SST** – This is an essential special service tool that the dealership should have. This tool is not mandatory when performing this repair.

Part Number	Part Name	Quantity
09890-47010-01	Anti-Static Mat Set	1

**DOF CAMPAIGN TOOLS** – These tools are provided to the dealership. These tools are necessary when performing this repair.

Image	Name	Quantity
	Airbag Mounting Bracket & hardware	1
	Barcode Scanner	1

**NOTE:** These tools **CANNOT** be ordered through the parts or tools system. There is a very limited supply of tools, but if additional tools are needed, contact your regional representative.

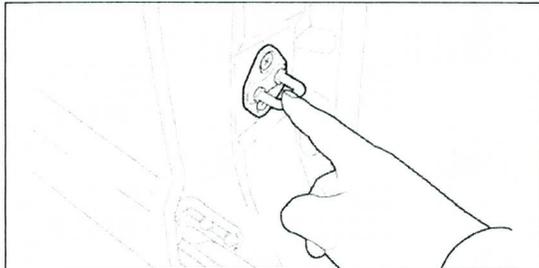
## V. SAFETY PRECAUTIONS

STOP

CRITICAL INFORMATION – READ THOROUGHLY

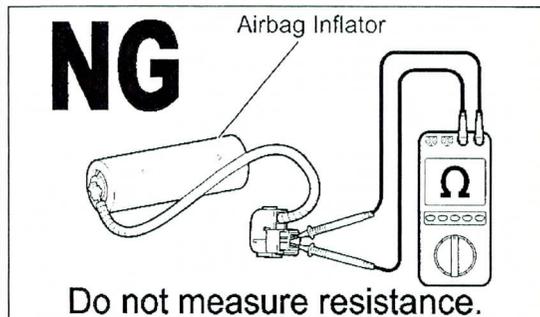
STOP

Failure to follow these procedures correctly could cause the SRS to unexpectedly deploy during servicing or the SRS may fail to operate correctly when required after reassembly. Confirm all work is performed as described in these instructions.



### 1. ELIMINATE STATIC ELECTRICITY

- a) Before starting work and periodically while working on the vehicle, touch a metallic part of the vehicle to discharge static electricity in the body.



### 2. DO NOT MEASURE RESISTANCE

- a) **DO NOT** measure resistance of airbag components, this may cause accidental activation.



### 3. HANDLE THE AIRBAG CAREFULLY

- a) If an inflator is dropped, replace it with a **NEW** inflator.



### 4. DO NOT ALLOW FOREIGN OBJECTS NEAR AIRBAG

- a) Be sure to collect and account for all removed nuts/bolts to prevent them from landing in the airbag assembly.
- b) Any foreign objects in the airbag assembly may cause damage or injury if the airbag is activated.



### 5. WEAR PROTECTIVE EQUIPMENT

- a) Always wear appropriate protective equipment when working on the SRS.

## VI. WORK AREA PREPARATION

Video Supplement: Introduction

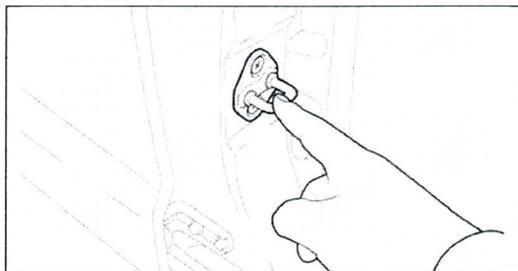
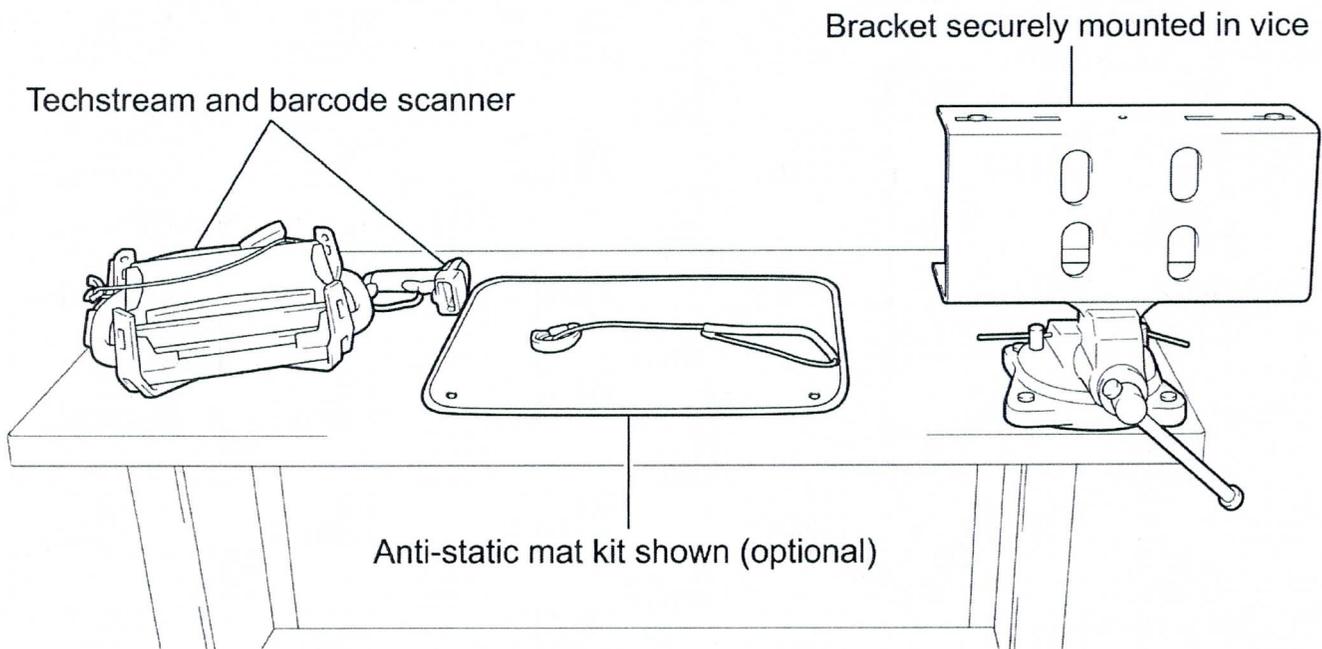


### CRITICAL INFORMATION – READ THOROUGHLY



The bracket assembly that was provided at the launch of SSC D0F is a critical added-safety feature that **MUST** be used when replacing the inflator module. Confirm the bracket assembly is installed securely in the vise and confirm the work area being used is appropriate. The anti-static mat set that is an essential SST may be available at your dealership and is optional to use during inflator replacement. If the anti-static kit is not available, before starting work and periodically while working on the vehicle, touch a metallic part of the vehicle to discharge static electricity in the body.

Confirm there are no loose objects or people exposed to the back side of the bracket for safety in the unlikely event of airbag deployment due to improper work procedures (Remember that the inflator **IS NOT** being replaced due to an inadvertent deployment concern).



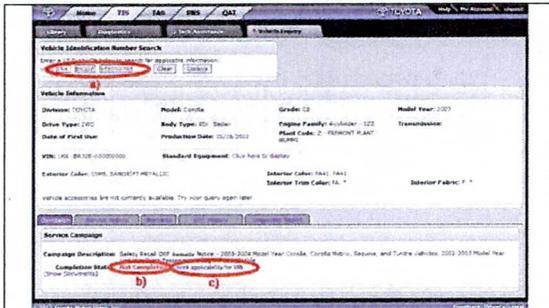
If the anti-static kit is not available, before starting work and periodically while working on the vehicle, touch a metallic part of the vehicle to discharge static electricity in the body.



### 3. LAUNCH THE SERIAL NUMBER CHECKER APPLICATION



- The **AIRBAG ASSEMBLY, ORIGINAL INFLATOR, and NEW INFLATOR** serial numbers **MUST** be recorded using the barcode scanner (provided at the launch of SSC D0F).
- The barcode scanner application **MUST** be completed on every vehicle. These numbers **MUST** be included on every warranty claim that is submitted for inflator module replacement or the claim may be subject to debit.
- The technician performing the work **MUST** have valid TIS login credentials and an internet connection to perform the inspection and scanning process.



- Log in to TIS and input the VIN of the vehicle in the Vehicle Inquiry tab.
- Confirm the VIN is applicable and that the campaign has not been completed.
- Click on the link to launch the serial number checker application.

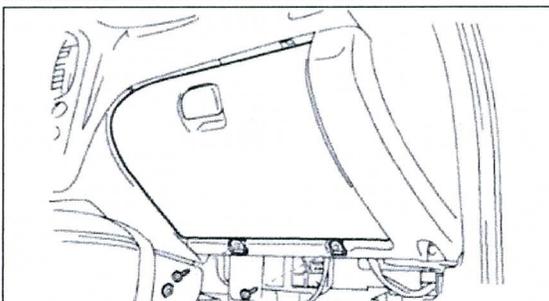
d) Reenter TIS password in the serial number checker application.

**NOTE:** The person logged-in to TIS should be the person performing the repair.



**NOTE:**

- A task status screen will populate next and at other intervals during the repair. This screen will indicate status of the vehicle under SSC D0F and if the inflator was replaced or not. All vehicles will now have the inflator replaced, including vehicles that were previously deemed to only need an inspection. Click 'next' to proceed to the next step. This information will be used for record keeping by TMS.
- If this screen indicates that the campaign has already been completed on this VIN, there is no need to perform campaign again.



### 4. REMOVE THE GLOVE BOX AND FINISH PANEL

- Remove the 2 screws and the glove box.
- Remove the 3 screws, disconnect the courtesy light connector and remove the lower No.2 finish panel that is behind the glove box.

- **CONNECT THE BARCODE SCANNER**
- Connect the barcode scanner to the USB port on the Techstream.
- The scanner will automatically connect and a beep will be heard when the scanner is ready.

**NOTE:**

- The scanner was provided for SSC D0F.
- The barcode scanner works best in low light conditions.
- Always hold the scanner directly in front of and parallel to the barcode label.

**5. INSPECT AND SCAN THE AIRBAG SERIAL NUMBER**

- a) Scan the **AIRBAG ASSEMBLY** serial number 2 times.
  - 1) Confirm the cursor is in the first serial number box then scan the serial.
  - 2) Position the cursor in the second serial number box then scan the serial.
- b) Click validate.

**NOTE:**

- If both serial numbers that are entered do not match, confirm and reenter.
- If the serial number barcode will not scan, it can be entered manually.
- If the serial number and barcode are not legible or are not present, contact your regional representative.

**AIRBAG SERIAL NUMBER IDENTIFICATION**

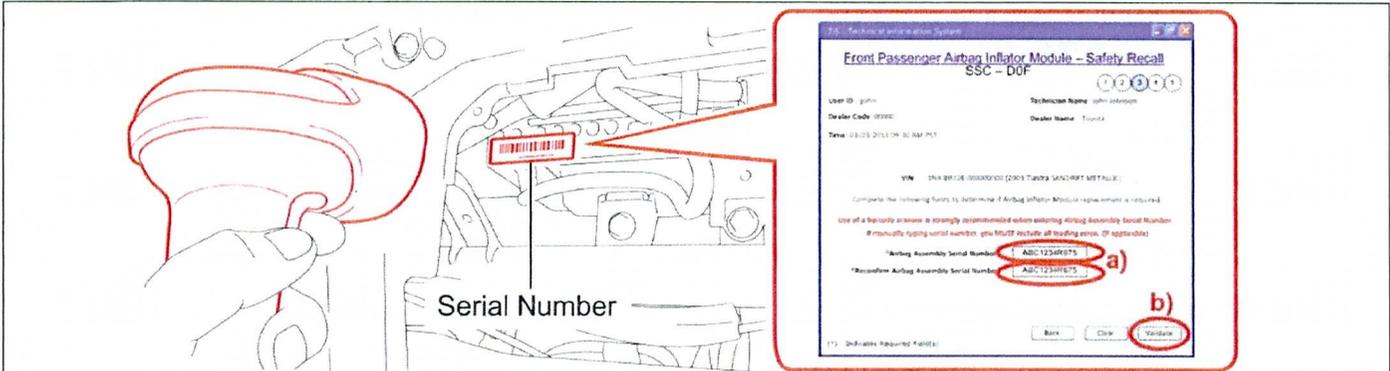
- The airbag serial number is **ALWAYS** the **12 DIGITS** located between the asterisks.
- The 3 digits before the asterisk **ARE NOT** part of the serial number, and **SHOULD NOT** be entered or an inaccurate response may be returned.

Airbag Serial Number Label Example



**F22 \*00000000XX0\***

**STOP** The **AIRBAG ASSEMBLY** serial number and the **INFLATOR** serial number are **DIFFERENT**. The **AIRBAG ASSEMBLY** serial number **MUST** be recorded prior to replacement.



**NOTE:** This is an interim process. When the remedy is available this process will be updated.

### CONDITION 1

#### Inflator replacement **REQUIRED**

The inflator is affected and replacement is required. Proceed to **SECTION VIII** Inflator Replacement.

### CONDITION 2 (Revised information)

#### If Teachstream responds with **NO NEED** to replace inflator

All vehicles will now need to have the inflator replaced.

Proceed to **SECTION VIII** Front Passenger Airbag Assembly Removal.

This application software will be updated shortly to reflect the new remedy process. In the interim open and fill out the linked document below.

Email the document to [Quality\\_compliance@toyota.com](mailto:Quality_compliance@toyota.com) in the subject line type SSC D3F AIRBAG also attach a copy to the repair order.

**NOTE:** The scanning process in STEP 7 can be skipped.

[SSC D3F Airbag Inflator Documentation](#)

### CONDITION 3

A customer arrives at your dealership with a vehicle that had the inspection only portion of SSC D0F preformed.

- Fill out the linked document below.
- Replace the passenger airbag inflator.
- Email the document to [Quality\\_compliance@toyota.com](mailto:Quality_compliance@toyota.com) in the subject line type SSC D3F AIRBAG also attach a copy to the repair order.
- No Warranty Authorization number will be generated.

[SSC D3F Airbag Inflator Documentation](#)

## VIII. FRONT PASSENGER AIRBAG ASSEMBLY REMOVAL

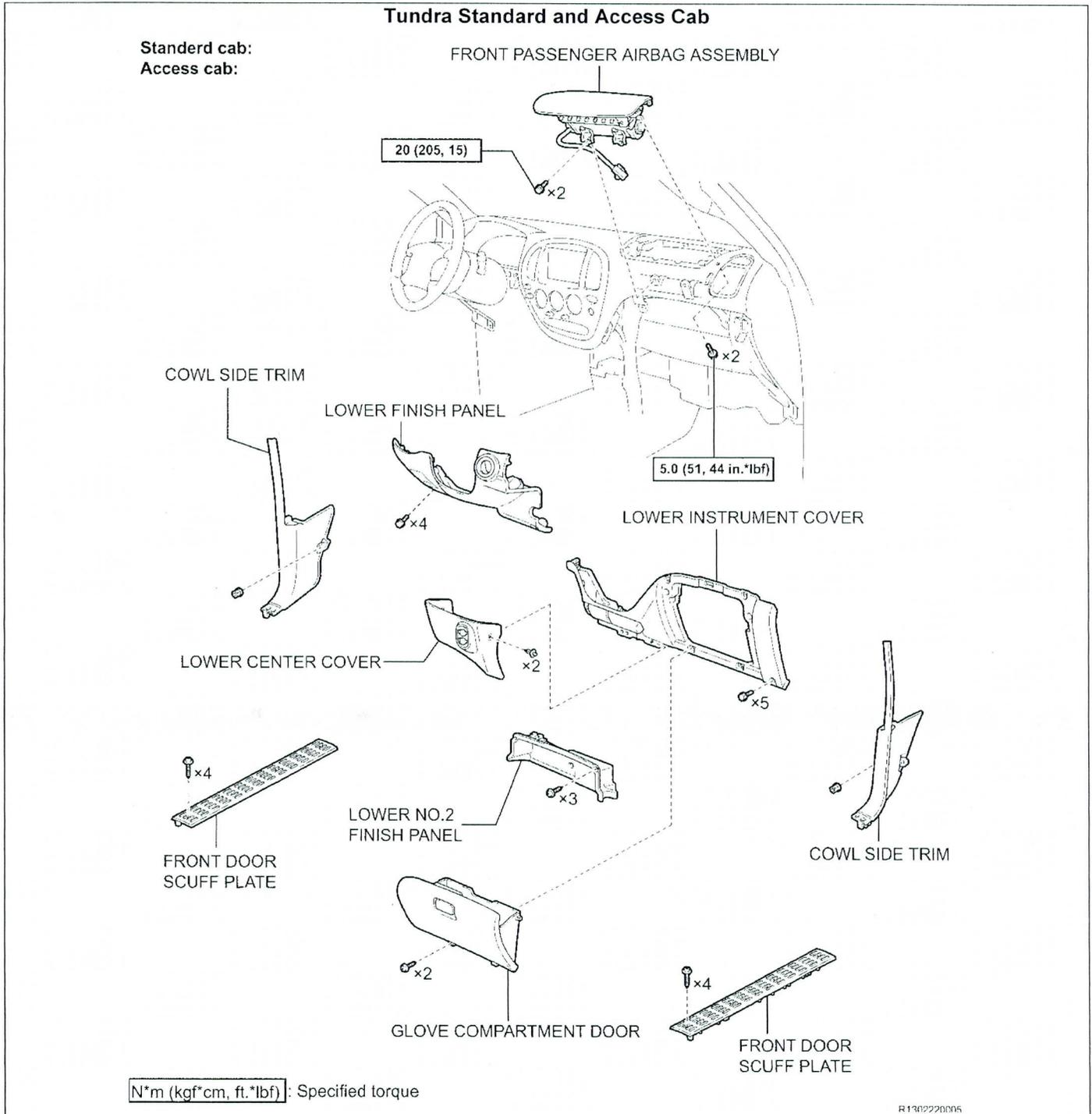
### 1. DISCONNECT THE NEGATIVE BATTERY CABLE



- Wait at least 90 seconds after disconnecting the cable from the negative battery terminal to prevent airbag and seat belt pretensioner deployment.
- Follow all precautions as outlined on TIS before servicing the SRS system.

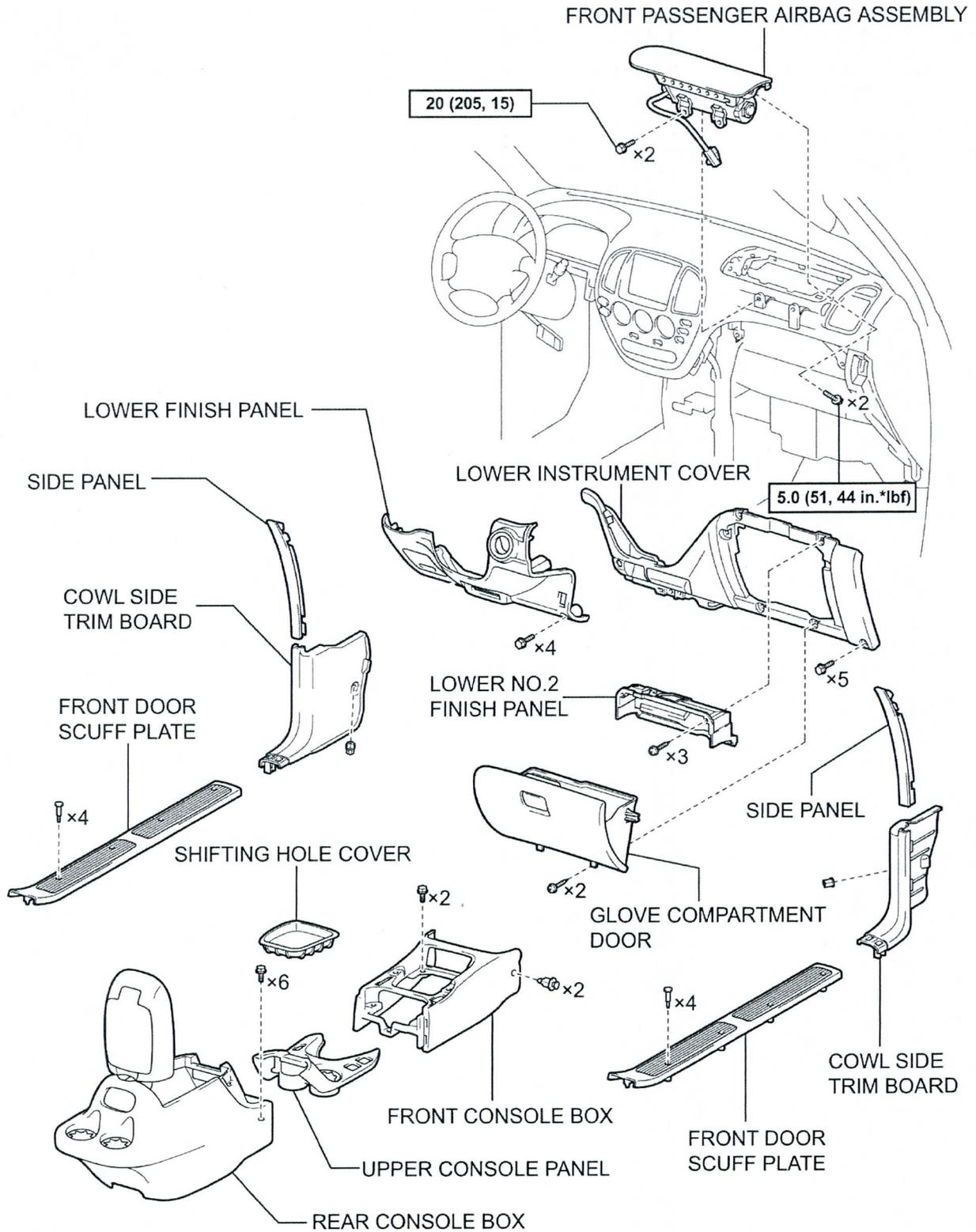
### 2. REMOVE THE PASSENGER AIRBAG ASSEMBLY

- a) Refer to TIS for instructions on airbag removal: [Tundra, Sequoia](#)



Sequoia, Tundra Double Cab

Double cab:



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

R1302220006

## IX. INFLATOR REPLACEMENT

[Video Supplement: Inflator Replacement](#)



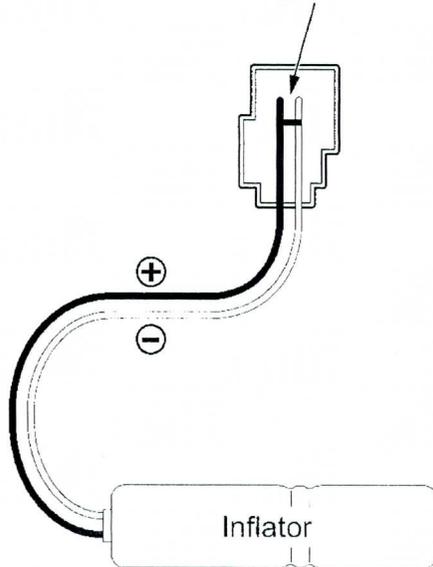
### CRITICAL INFORMATION – READ THOROUGHLY



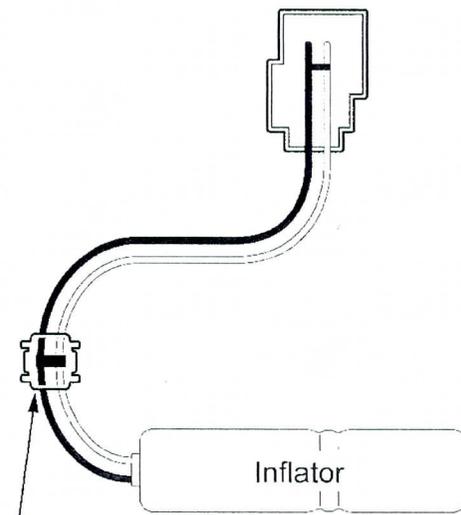
The connector of the inflator module contains a short circuiting mechanism to eliminate voltage variances when the connector(1) is disconnected. To allow for the replacement of the inflator module, a new short circuit(2) *MUST* be created before cutting the wires(3) and removing the inflator. The following steps *MUST* be followed exactly as described to ensure the work is completed correctly and safely.

(1)

Short circuiting on both sides.

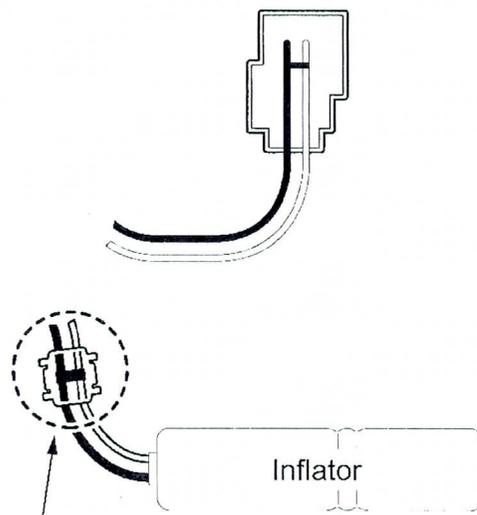


(2)

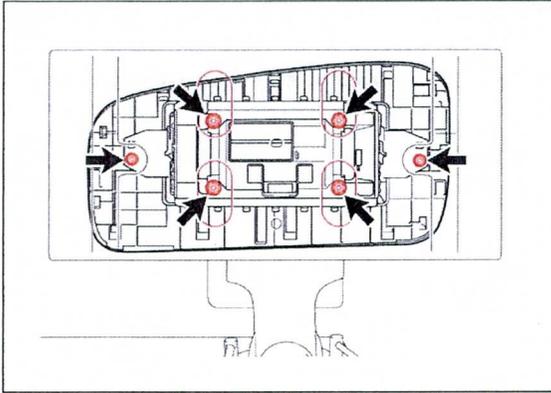
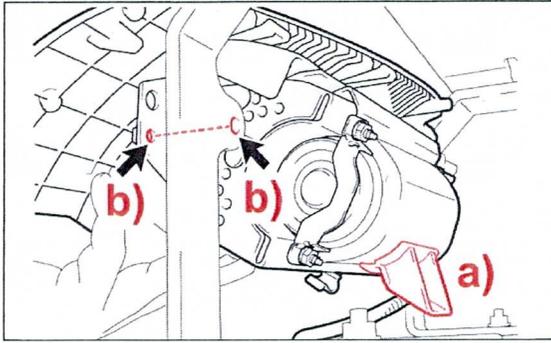


Create new short circuit using electro tap.

(3)



Short circuiting is maintained even after cutting harness.



## 1. MOUNT THE AIRBAG IN THE MOUNTING BRACKET

- Position the airbag assembly so that the center mounting bracket is facing towards the ground.
- Install the airbag to the support bars with the bolts supplied in the bracket kit.

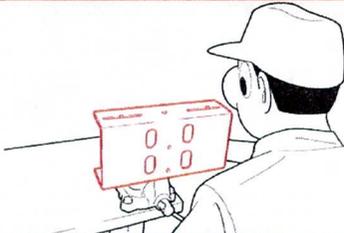
**NOTE:** The airbag assembly will only fit on the support brackets one way.

- Position the airbag so that all four stopper plate nuts can be removed through the access holes.
- Tighten the bolts holding the support bars to the mounting bracket.
- Confirm the following:
  - Mounting bracket is secure in the vise.
  - Airbag is secure in the support bars.
  - The center mounting bracket on the airbag assembly is facing downward.
  - Support bars are secure on the mounting bracket using 1 bolt/nut at the top of each support bar and 2 nuts/bolts at the bottom of each support bar.

**STOP**

### CRITICAL INFORMATION – READ THOROUGHLY

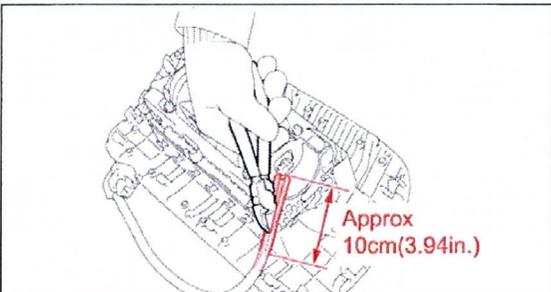
**STOP**



**ALWAYS** keep as much of your body as possible in front of the bracket when working on the airbag assembly.



Remember to periodically touch a metallic part of the vehicle to discharge static electricity in the body if the anti-static kit is not being used.



## 2. PREPARE TO INSTALL THE SHORT CIRCUIT

- Cut the yellow corrugated tube on the harness approximately 4 inches (10 cm) using nippers.

**STOP**

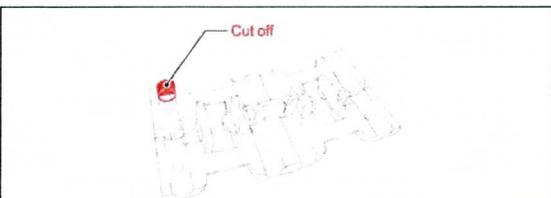
- DO NOT** damage the wires in the tube.
- DO NOT** use a knife or razor blade to cut the tube to avoid damaging the wires.
- This may be performed on either end of the inflator.

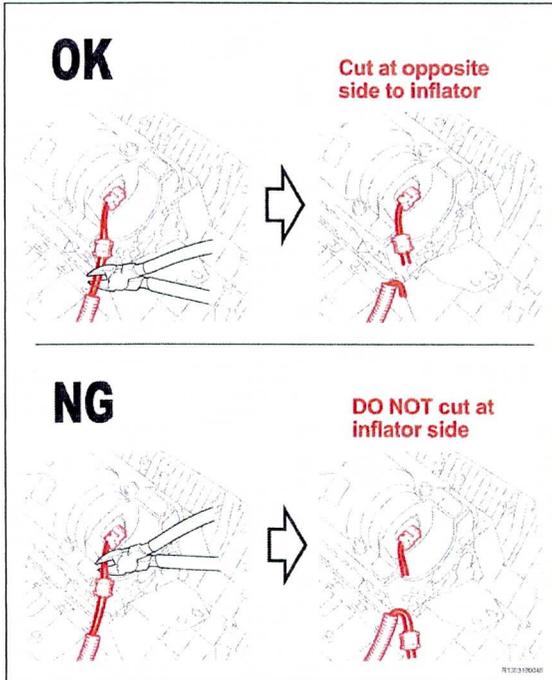
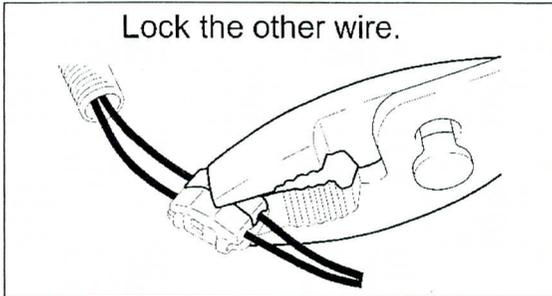
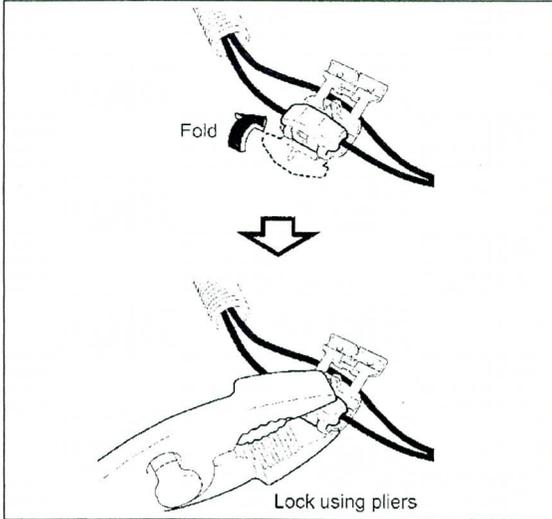
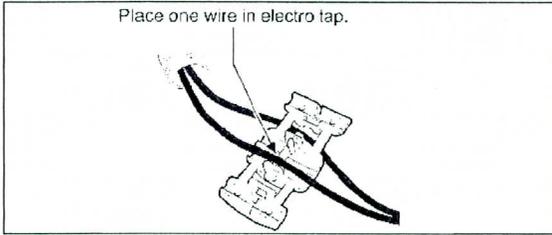
- Cut off the tab of the electro tap shown in the illustration.

**NOTE:** The electro tap is included in the inflator parts kit.

**STOP**

This tab **MUST** be removed to ensure a good short.





### 3. CREATE A NEW SHORT CIRCUIT IN THE INFLATOR HARNESS

- a) Place one wire in the electro tap as shown in the illustration.
- b) Fold and pinch the half of the electro tap with the wire and use pliers to lock the electro tap.

**NOTE:**

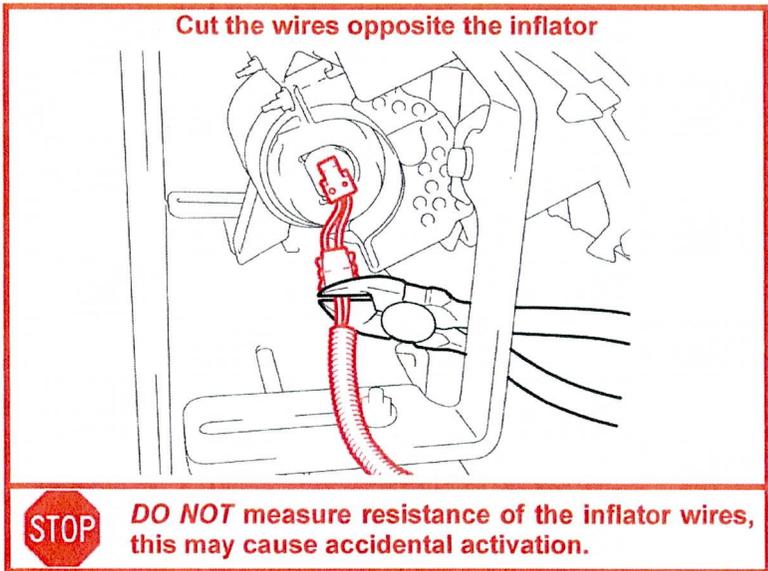
- **DO NOT** work on both wires at the same time to avoid errors.
- Pliers **MUST** be used to confirm the electro tap is firmly locked in place.

- c) Set the other wire in the electro tap and lock it in place using pliers.

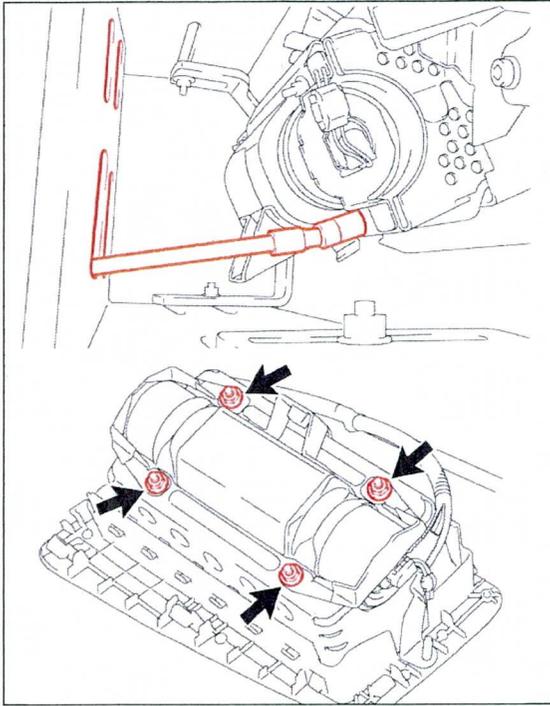
**STOP** **DO NOT** measure resistance of the inflator wires, this may cause accidental activation.

### 4. CUT THE INFLATOR WIRES

- a) Cut the 2 wires at the side of the electro tap that is farthest away from the inflator.



**STOP** **DO NOT** measure resistance of the inflator wires, this may cause accidental activation.

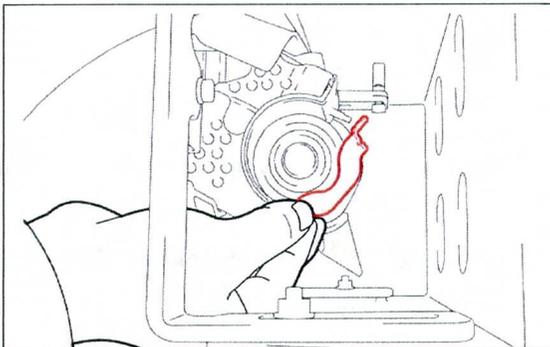


## 5. REMOVE THE SELF LOCKING NUTS

- a) Use the access holes in the bracket to remove the 4 nuts.

### NOTE:

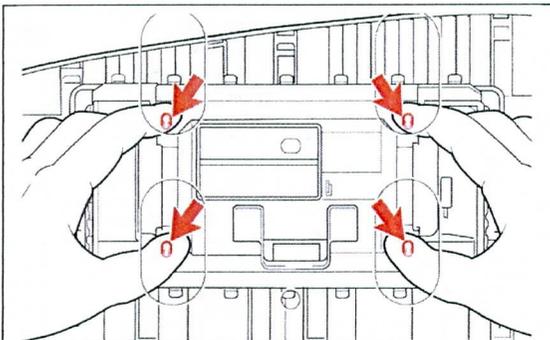
- **DO NOT** use power tools.
- The bracket support bars may need to be repositioned to remove the nuts through the access holes.



- b) Remove the stopper plate and place in a secure location because it will be reused.

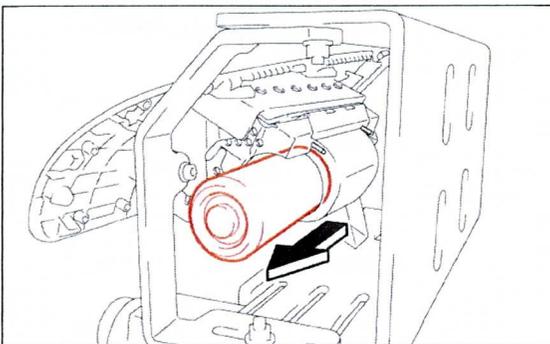
**STOP** **DO NOT** discard the Stopper Plate, it will be reused.

- c) Discard the 4 nuts as they are not to be reused.



## 6. REMOVE THE INFLATOR

- a) Gently push in the 4 studs to loosen the inflator for removal.



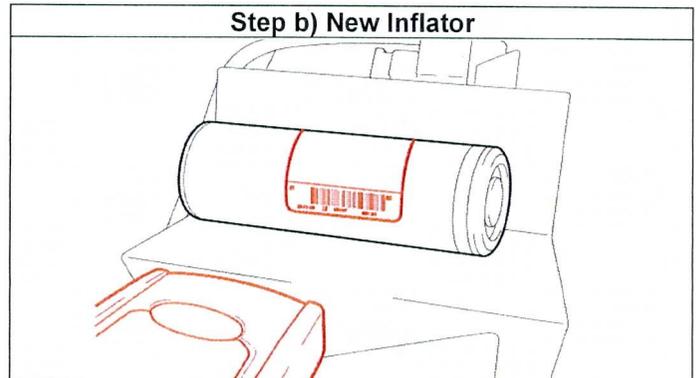
- b) Remove the inflator from the airbag assembly and place it on a safe work surface.

## 7. SCAN THE OLD AND NEW INFLATOR SERIAL NUMBER

- Scan the **OLD** inflator serial number and mark the old inflator so that it will not be reused.
- Scan the **NEW** inflator serial number.

**NOTE: This information is CRITICAL**

- It is used to confirm the correct inflator is removed from the vehicle.
- It is recorded by TMS to trace the return parts shipment.
- It is used to track new the inflator that is being installed on the vehicle.



- Confirm agreement by checking the two boxes.
- Record the Warranty Authorization # to be included in the warranty claim.
- Place the old inflator in the parts box and take it immediately to the parts department.

**NOTE:**

- Confirm the cursor is in the correct serial number input box before scanning.
- If the serial number barcode will not scan, it can be entered manually.
- If there are any difficulties or concerns with this process, email [quality\\_compliance@toyota.com](mailto:quality_compliance@toyota.com) with details.

Step c)

TIS - Technical Information System  
Front Passenger Airbag Inflator Module – Safety Recall  
SSC – D0F

User ID : jjohn Technician Name : John Johnson  
Dealer Code : 00000 Dealer Name : Toyota  
Time : 03/03/2013 09:30 AM PST Airbag Serial # : \*\*\*\*\*45  
VIN : 1NX BR32E 000000000 [2003 Corolla SANDRIFT METALLIC]

Inflator Module REPLACEMENT IS REQUIRED under the safety recall. Follow the technical instructions and acknowledge the following statements

**if manually typing serial number, you MUST include all leading zeros. (if applicable)**

Original Inflator Serial #: IABC1234  
If original inflator serial number is not visible or missing, check this box.

\*Replacement Inflator Serial #: IAZ5678

If you have a concern with the inflator serial numbers, please email [quality\\_compliance@toyota.com](mailto:quality_compliance@toyota.com) with details.

\* I agree to complete the safety recall's remaining technical instructions.  
 \* I agree to perform a vehicle Health Check with Techstream upon completion of the safety recall's technical instructions.

(\*) - Indicates Required Field(s) [Back] [Clear] [Submit]

Step d)

TIS - Technical Information System  
Front Passenger Airbag Inflator Module – Safety Recall  
SSC – D0F

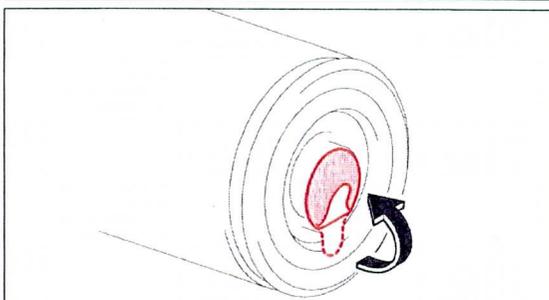
User ID : jjohn Technician Name : John Johnson  
Dealer Code : 00000 Dealer Name : Toyota  
Time : 03/03/2013 09:39 AM PST Airbag Serial # : \*\*\*\*\*45  
Original Inflator Serial #: IABC1234 Replacement Inflator Serial #: IAZ5678

John Johnson has agreed to the following terms and conditions on 03/03/2013 09:39 AM PST.  
\* I agree to complete the safety recall's remaining technical instructions.  
\* I agree to perform a vehicle Health Check with Techstream upon completion of the safety recall's technical instructions.

John Johnson has successfully confirmed completion of Airbag Inflator Module Safety Recall for  
VIN – 1NX BR32E 000000000 [2003 Corolla SANDRIFT METALLIC].  
**Warranty Authorization # 142957**

Airbag inflator module replacement **WAS required** under this safety recall.  
Print this page for your records and then click 'Close' to resume working.

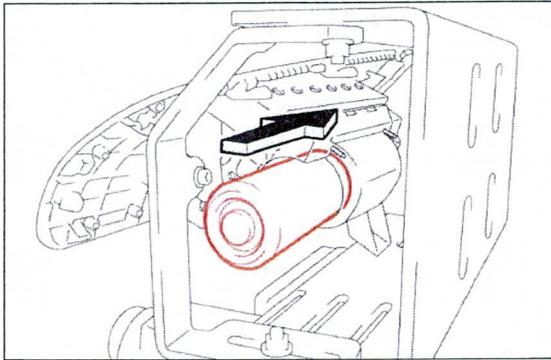
[Close]



## 8. FOLD THE CONNECTOR SEAL

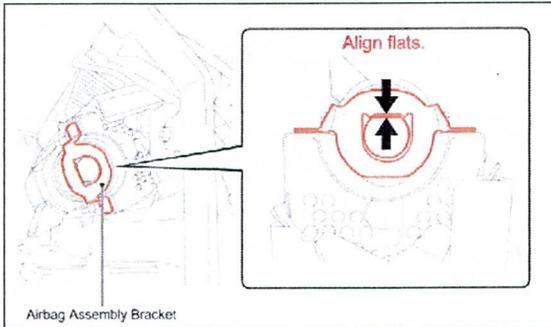
- Fold the seal in order to prevent it from being caught under the airbag assembly bracket in the next step.

**NOTE: DO NOT fully remove the seal until just before connecting the harness.**



### 9. INSTALL THE NEW INFLATOR

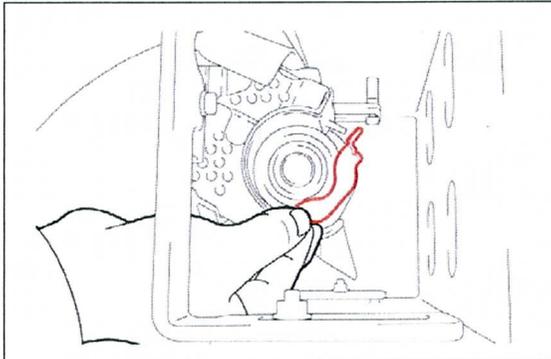
- a) Carefully slide the new inflator into the airbag assembly.



### 10. CONFIRM THE INFLATOR ALIGNMENT

- a) Align the flat on the inflator with the flat on the airbag assembly bracket.

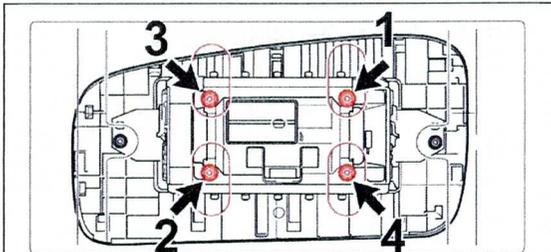
**STOP** Confirm the flats on the airbag assembly and inflator are aligned.



### 11. REINSTALL THE STOPPER PLATE.

- a) Place the stopper plate on the airbag assembly.

**STOP** The inflator stopper plate is reused at this step; a new one is not included in the inflator kit.



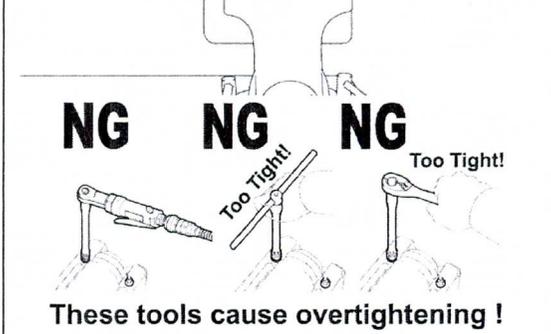
### 12. TORQUE THE PLATE NUTS

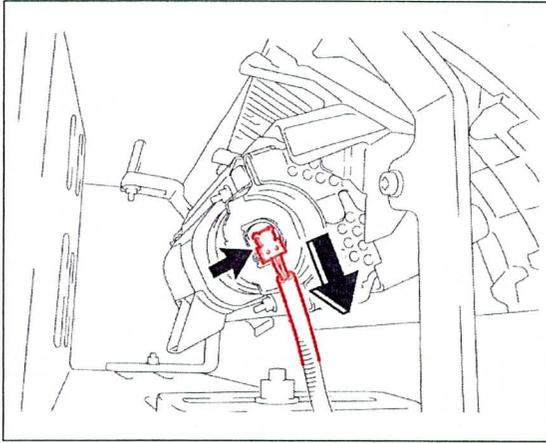
- a) Tighten the nuts evenly in two increments following the sequence shown in the illustration. Use a socket driver or torque wrench to tighten the nuts.

Torque: 35in. lbf (3.9N·m)

**STOP**

- There will be some resistance when tightening the nuts because they are self-locking, confirm the nuts are tightened correctly.
- **DO NOT** use a power tool, T-handle, or ratchet when tightening the nuts to avoid overtightening.



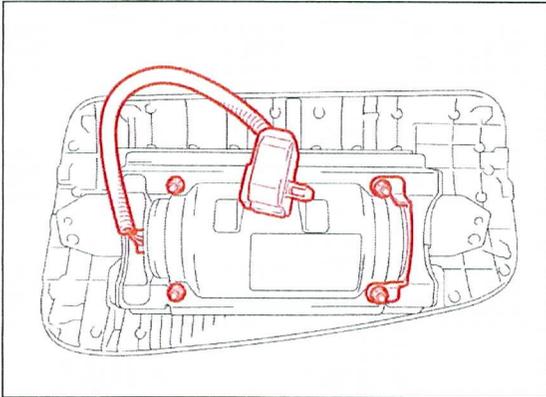


### 13. CONNECT THE INFLATOR CONNECTOR

- a) Remove the connector seal from the inflator.
- b) Confirm the alignment of the harness connector as shown in the illustration, then connect the harness. The connector wires should lead downward toward the center airbag mounting bracket.



- The connector should be connected **IMMEDIATELY** after removing the seal.
- The connector is one-way, once it is installed it **CANNOT** be removed.
- If the connector is installed in the incorrect orientation the terminals may be bent or the connector may not fully engage.



### 14. REMOVE THE AIRBAG ASSEMBLY FROM THE BRACKET

- a) Remove the two bolts and the airbag assembly, then place the assembly on a cloth or the anti-static mat if it being used.

### 15. INSPECT THE AIRBAG BEFORE INSTALLATION

- a) Confirm that the 4 **NEW** nuts are installed and tight.
- b) Confirm the stopper plate is reinstalled.
- c) Confirm the flats on the airbag assembly bracket and inflator are aligned.
- d) Confirm the inflator harness connector is secure and installed in the correct direction.
- e) Confirm that the harness is engaged in the clamp.

## X. FRONT PASSENGER AIRBAG ASSEMBLY INSTALLATION

### 1. REINSTALL THE AIRBAG ASSEMBLY

- b) Refer to TIS for instructions on airbag installation: [Tundra](#), [Sequoia](#)

### 2. RECONNECT THE NEGATIVE BATTERY CABLE

### 3. PERFORM A HEALTH CHECK AND DIAGNOSTIC REPORT

**NOTE:** Enter the VIN when performing the health check in order for the data to be recorded by TMS.

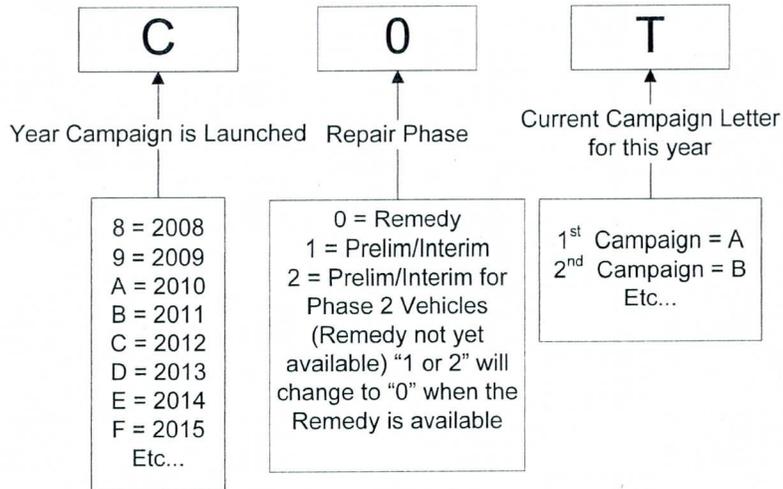
## ◀ VERIFY REPAIR QUALITY ▶

- Confirm all precautions are followed to ensure safety during the repair
- Confirm the entire serial number checker application is completed and the warranty authorization # is recorded on *EVERY* vehicle
- Confirm the old inflator is handled safely and given to the appropriate parts professional for shipment
- Confirm the inflator harness connector is fully engaged and that the stopper plate is installed correctly

If you have any questions regarding this update, please contact your area representative.

### XI. APPENDIX

#### A. CAMPAIGN DESIGNATION DECODER



#### B. CAMPAIGN PARTS DISPOSAL

##### Video Supplement: Parts Handling

**ALL** inflators that are removed from vehicles under this campaign **MUST** be packaged and shipped back to the inflator manufacturer following the manufacturer's instructions. The instructions can be found in the following locations:

- Attached to the dealer letter
- Included in the parts box
- The laminated aid that was provided at the launch of the campaign