# **TECHNICAL INSTRUCTIONS**

# FOR

# SAFETY RECALL JLI/JLJ/JLK

# FRONT PASSENGER AIRBAG INFLATOR MODULE

# CERTAIN 2002 – 2010 MODEL YEAR SC 430

# UPDATE 10/17/2019

## Update 10/17/19

- The model year range has been expanded to 2010 model year

## Update 6/9/19

- The scanning process has been updated

### Update 12/18/18

- Images have been updated to reflect new part design

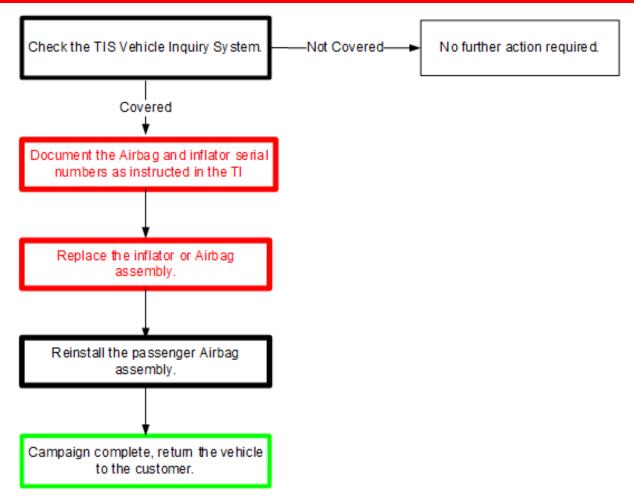
All dealership associates involved in the recall process are required to successfully complete E-Learning course LSC13A. To ensure that all vehicles have the repair performed correctly; technicians performing this recall repair are required to have successfully completed E-Learning course LSC13B, in addition to LSC13A, and currently hold <u>at least one</u> of the following certifications levels:

- MASTER SERVICE TECHNICIANS
- MASTER DIAGNOSTIC SPECIALISTS

NOTE: To support additional service capacity, Lexus Certified and Senior Service Technicians, with <u>at least</u> <u>36 months Lexus experience</u> AND <u>L652 course credit</u>, may also perform this repair following successful completion of course LSC13B.

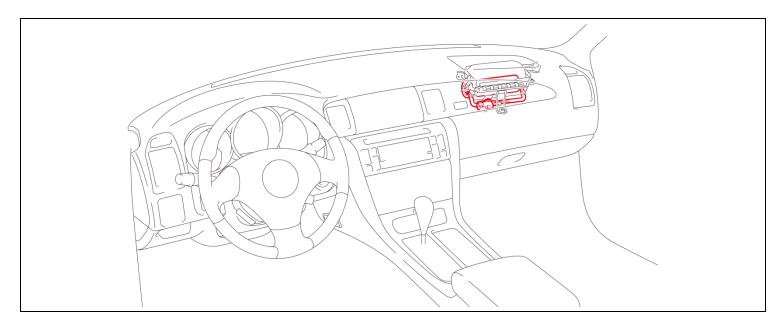
## I. OPERATION FLOW CHART

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 produced by Takata. The propellant in these inflators may degrade after prolonged exposure to high absolute humidity and fluctuating high temperatures. Degraded propellant can cause the inflator to explode during airbag deployment. In the event of an inflator explosion, metal fragments could pass through the airbag cushion material, striking the vehicle occupants, and result in serious injury or death.



## **III. IDENTIFICATION OF AFFECTED VEHICLES**

#### A. COVERED VIN RANGE

- 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 Nur	nber	Part Description		Quantity
04008-03 2002-200		INFLATOR ASSY KIT, INST AIR BAG*	R PNL	1
	*The	e kit above includes the followin	g parts.	
		Inflator	1	
		Position Determining Plate	1	
		Self Locking Nut	4	
		Electro Tap	1	

#### **Non-Desiccated Part Recovery**

Dealers should <u>discontinue the installation</u> of the non-desiccated parts listed below for recall, customer pay repairs AND over-the-counter sales (if applicable).

Model	Model Year	Part Number	Part Description
SC 430	2002-2010	73960-24010 73960-24030	AIR BAG ASSY, INSTR PNL PASS

Toyota requires all dealers to return any parts listed above that still remain in dealer inventory by utilizing the Hazmat Part Return Program available. Dealers will be issued a refund for all part returns. This part return program is outlined in *PANT Bulletin 2014-042*.

Important Note:

In order to return the inflator, packages must **NOT** be opened/tampered with.

#### **B. TOOLS & EQUIPMENT**

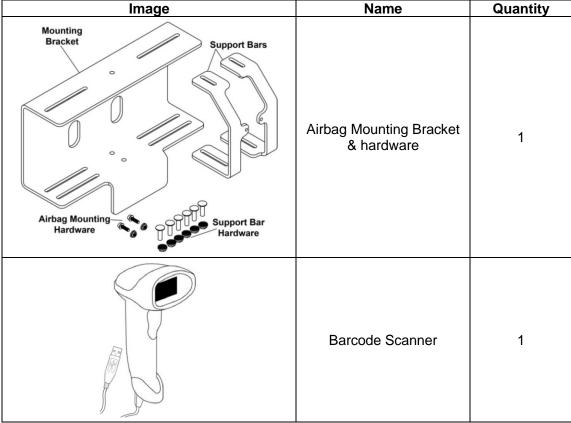
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Standard hand tools •

Molding remover set

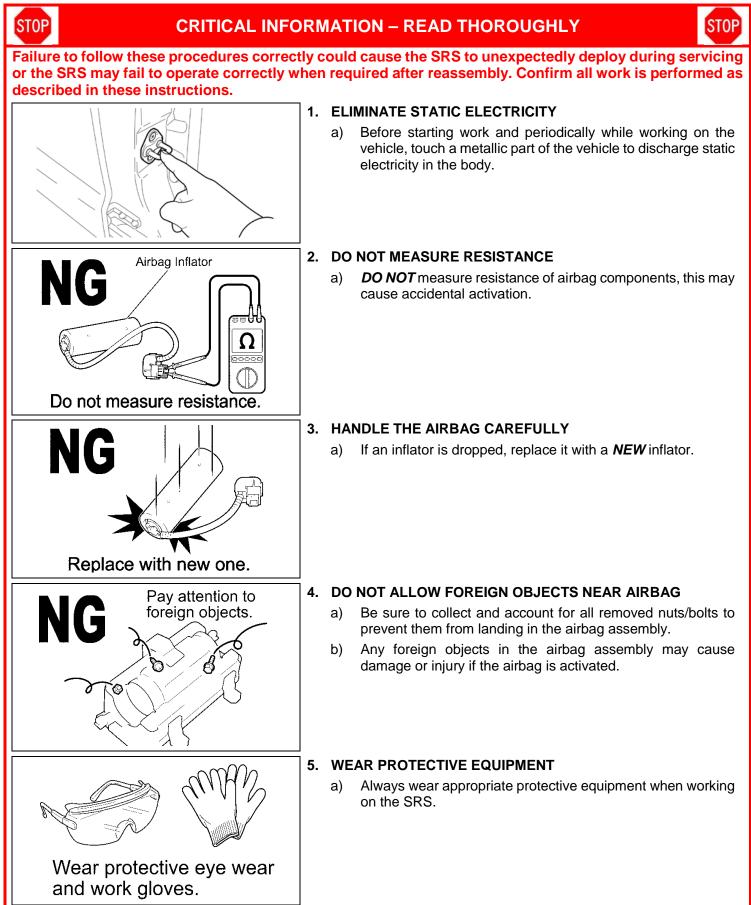
- Torque wrench • •
- **Electrical Tape** • Zip Tie
- Techstream
- ELG CAMPAIGN TOOLS These tools where previously provided to the dealership for campaign DLC and will be used for campaign ELG. These tools are required when performing this repair.

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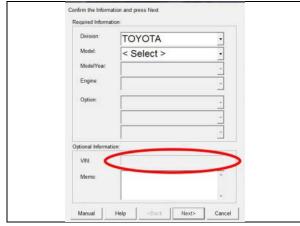


NOTE: These tools CANNOT be ordered through the parts or tools system. There is a very limited supply of tools, but if additional tools are needed, contact your area representative.

## **V. SAFETY PRECAUTIONS**



# **VI. SRS SYSTEM HEALTH CHECK**



#### **1. PERFORM A HEALTH CHECK**

- a) Confirm the Techstream is connected to the dealership's internet.
- b) When launching the Techstream software the VIN MUST be entered manually.

NOTE: All letters of the VIN MUST be entered in ALL CAPS, or the VIN will need to be reentered when running the diagnostic report.

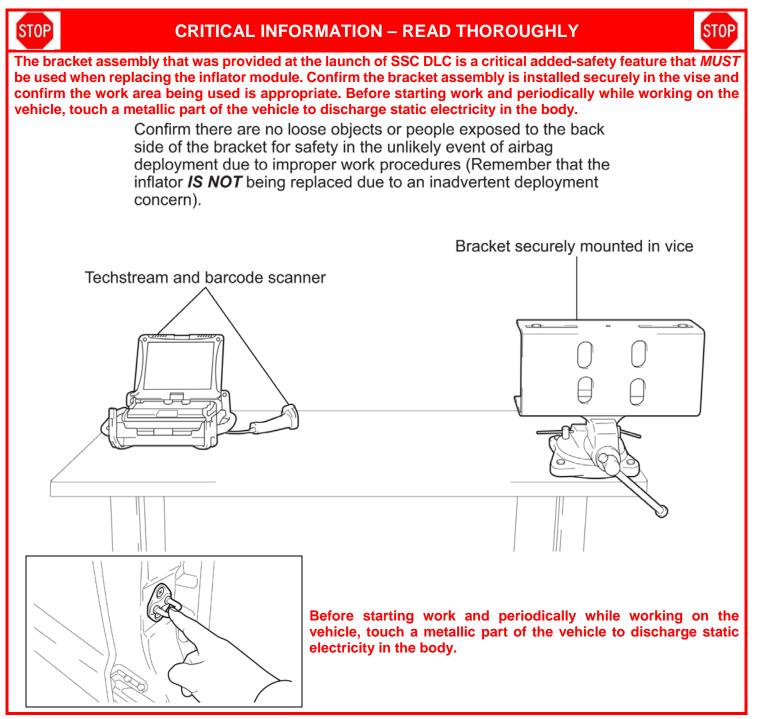
- c) Perform a health check.
  - Note: The VIN may auto populate on the later model year vehicles, if this happens DO NOT change the VIN.

### 2. RUN A DIAGNOSTIC REPORT

a) After the health check has completed, run a diagnostic report by clicking on the link on the health check screen.

Monitor           Status	DTC <u>Curr</u>	Pend His	t Perm	SB Calibration	Update	NOTE: If the VIN was not entered in ALL CAPS Techstream was launched, an error wi displayed and there will be a prompt to re the VIN	ill be
						Error Inputting The input VIN is not correct. Please re-enter VIN. OK	
	Diagno	ostic	Re	port	b)	Enter the vehicle mileage and repair order information, click the 'report' button.	, then
Mileage: Repair Order: (Report)	Vehicle	e Infor	matio	on >			
STOP	VIN WILL A health recorded TMS. The seria	. <i>NOT</i> checl by T	auto c and MS.	p-populate of d diagnostic If the diagr recording a	due to v c report lostic re pplicati	in ALL CAPS when launching the Techstream software vehicle age. t with VIN <i>MUST</i> be performed within the last 36 hours eport is not run, the healthcheck will not be recognize ion will be disabled and the inspection cannot be comp ort is not performed and recorded by TMS.	s and ed by

## **VII. WORK AREA PREPARATION**



## VIII. FRONT PASSENGER AIRBAG ASSEMBLY REMOVAL

#### 1. DISCONNECT THE NEGATIVE BATTERY TERMINAL



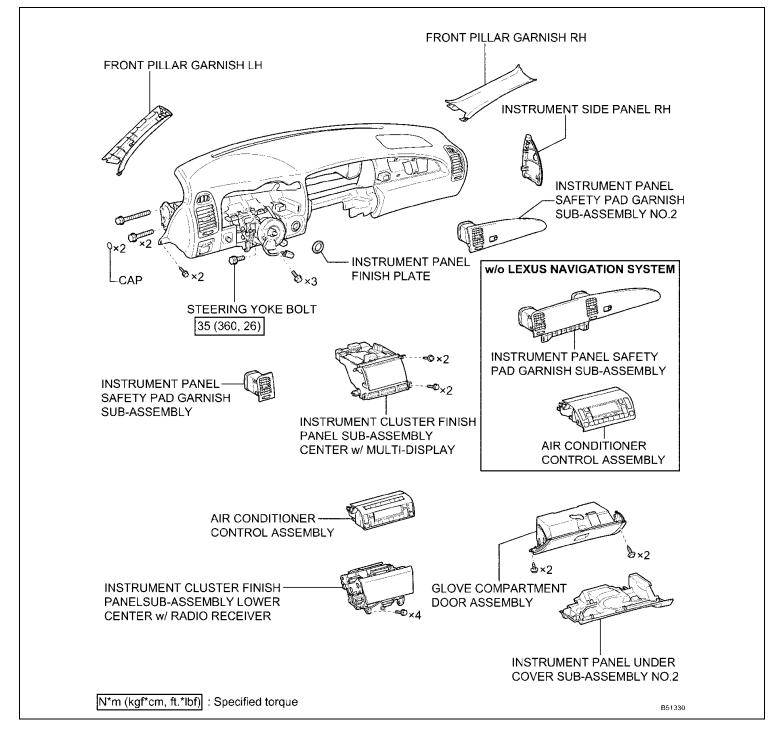
• Wait at least 90 seconds after disconnecting the cable from the negative battery terminal to prevent airbag and seat belt pretensioner deployment.

Follow all precautions as outlined on TIS before servicing the SRS system.

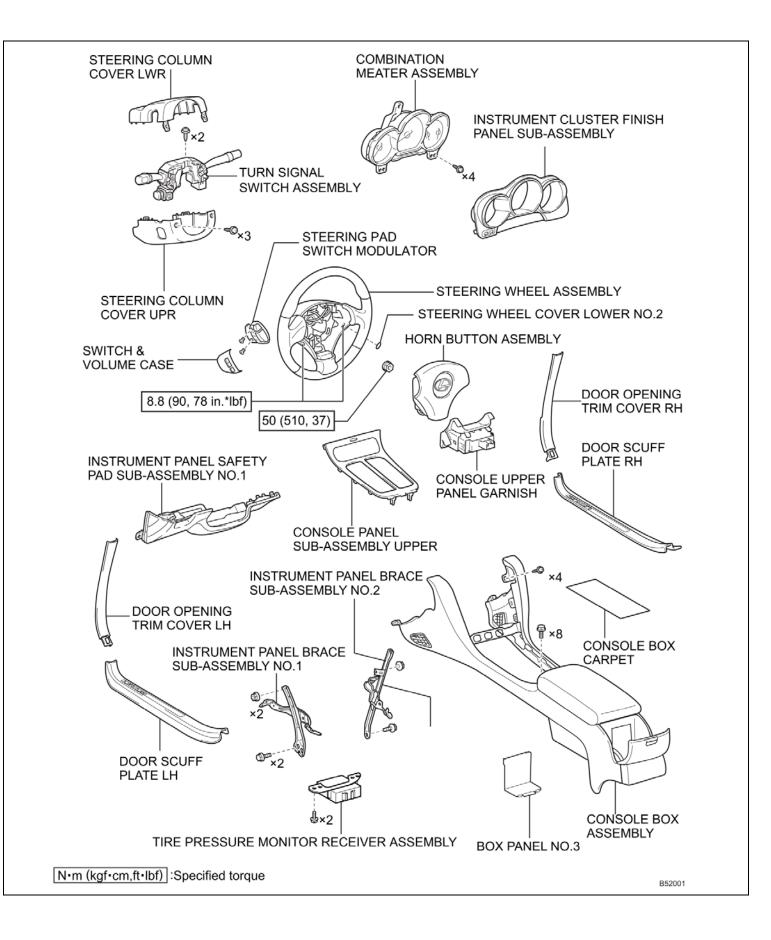
#### 2. REMOVE THE INSTRUMENT PANEL SAFETY PAD SUB-ASSEMBLY

a) Refer to TIS for removal instructions

<u>2002-2005 MY</u> <u>2006</u> <u>2007</u> <u>2008</u> <u>2009</u> <u>2010</u>



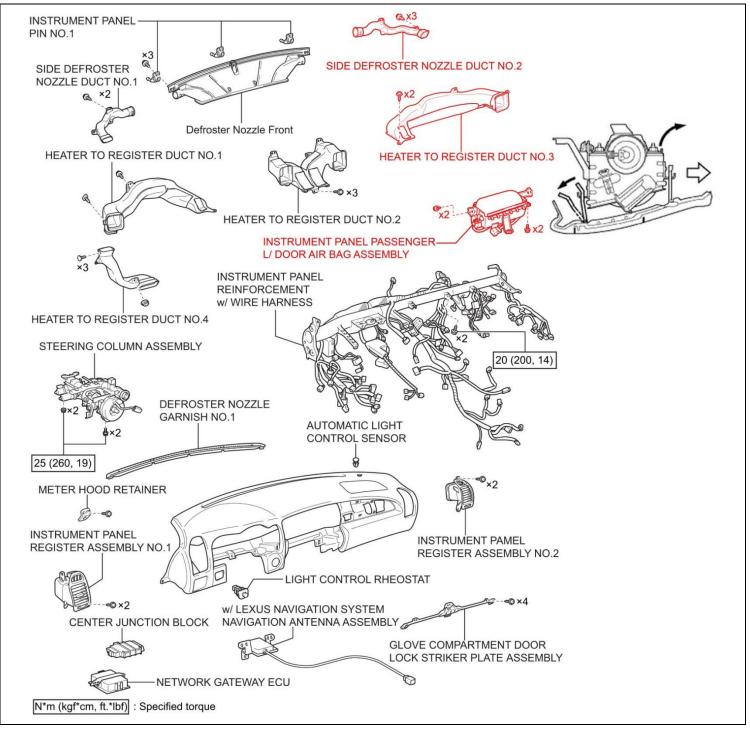
Removal instructions continued...



#### 3. REMOVE THE AIRBAG FROM THE INSTRUMENT PANEL

- a) Remove the 3 screws and the side defroster nozzle.
- b) Remove the 2 screws and the heater to register duct.
- c) Remove the 4 bolts, disengage the straps, and then remove the airbag assembly.

#### NOTE: Only remove the components highlighted in red; there is NO NEED to remove any other components.



## IX. AIRBAG ASSEMBLY RECORDING

ST0P

### 1. LAUNCH THE SERIAL NUMBER RECORDING APPLICATION

- The AIRBAG ASSEMBLY, ORIGINAL INFLATOR, and NEW INFLATOR serial numbers MUST be recorded using the barcode scanner (provided at the launch of SSC DLC).
- 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.
- a) Log in to TIS and input the VIN of the vehicle in the Vehicle Inquiry tab.
- b) Confirm the VIN is applicable and that the campaign has not been completed.
- c) Click on the link to launch the serial number recording application.

Enter a 17 Digit VIN below to search Vigt 1NX BR32E 000000000				
a) Vehicle Information				
Division: TOYOTA	Model: Corolla	Grade: CE	Model Year: 2003	
Drive Type: 2WD	Body Type: 4Dr. Sedan	Engine Family: 4-cylinder - 1ZZ	Transmission:	
Date of First Use:	Production Date: 01/18/2002	Plant Code: Z - FREMONT PLANT - NUMMI		
VIN: 1NX -BR32E-000000000	IN: 1NX -BR32E-000000000 Standard Equipment: Click here to display			
Exterior Color: 03M5, SANDRIFT	METALLIC	Interior Color: FA41, FA41		
		Interior Trim Color: FA, *	Interior Fabric: F, *	
Vehicle accessories are not current	ly available. Try your query again later.			
Campaign Service History	Warranty DTC History Di	agnostic Report		
Service Campaign				
Campaign Description: Safety	Recall DOE Domody Notice - 2002-2004 M	odel Year Corolla, Corolla Matrix, Seguoia, ar	d Tundra Vehicles, 2002-2003 Model Veas	
campaign Description. Safety P	Front Passeneer durbog militar Module	ouer rear corona, corona macrix, Sequola, ar	ia ranara venicies, 2002-2003 model fear	

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

NOTE: The person	logged-in to	TIS MUST be the	person performing	the repair
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TTOIL Pass	enger A		or Module - S	Safety Recall	
		SSC - [	DSF		
				12345	
Jser ID: SuzukiR			Technician Nan	e: Russell Suzuki	
Dealer Code:			Dealer Name:		
Time: 06/10/2014 02:07 PM PD	T		Airbag Serial #:		
Driginal Inflator Serial #:			Replacement Inflator Serial #:		
original Innator Serial #:			Replacement In	inator Serial #:	
	VIN: STD				
	VIN: STD	STAN	IN REIGE M. M.]		
	C	Mileage*			
Task Airbag = Record	Dealer	User	Time	Status Not Started	
Inflator # Record				Not Started	
Terms & Conditions		<u> </u>		Not Started	
		tt-		Not Started	
New Airbag #					

e) Record the vehicle mileage into the serial number recording application.

#### NOTE:

- A task status screen will populate next and at other intervals during the repair. This screen will indicate if the inflator was replaced or in some limited cases that the entire airbag assembly was replaced. 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 the campaign again.

#### 2. CONNECT THE BARCODE SCANNER

a) Connect the barcode scanner to the USB port on the Techstream.

b) The scanner will automatically connect and a beep will be heard when the scanner is ready. **NOTE:** 

- The scanner was provided for SSC DLC.
- The barcode scanner works best in low light conditions.
- Always hold the scanner directly in front of and parallel to the barcode label.
- 3. SCAN THE AIRBAG SERIAL NUMBER

# **ATTENTION:** This information is *CRITICAL*

- 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 next.

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.

#### **AIRBAG SERIAL NUMBER IDENTIFICATION**

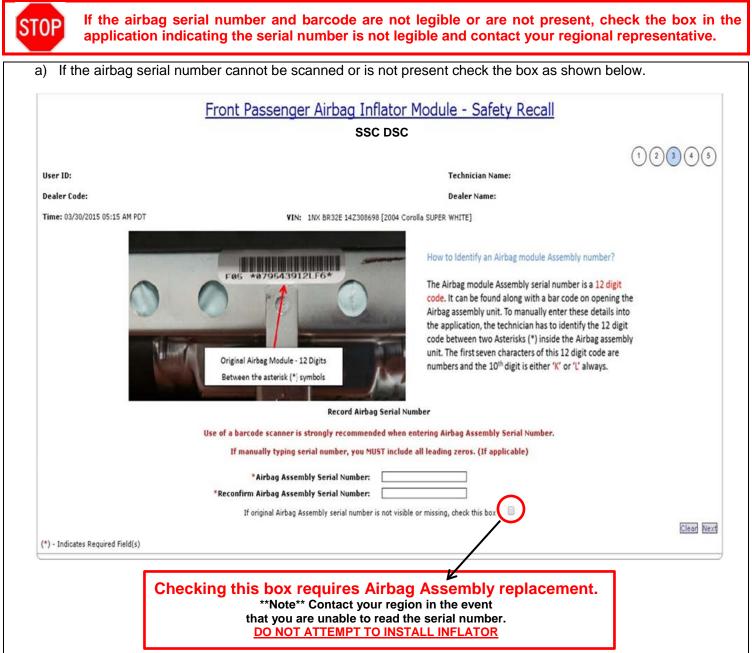
- The airbag serial number is *ALWAYS* the 12 *DIGITS* located between the asterisks.
- The 3 digits before the asterisk *ARE NOT* part of the serial number, and *SHOULD NOT* be entered or an inaccurate response may be returned. Airbag Serial Number Label Example

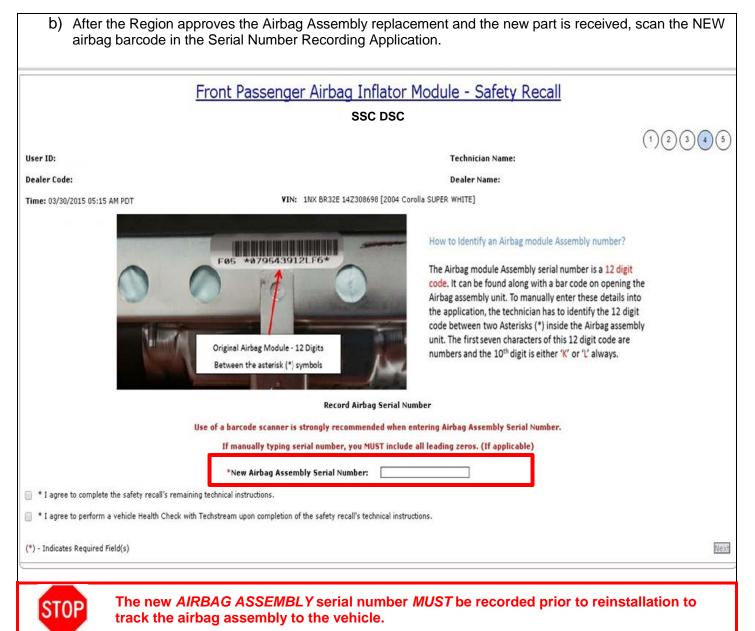


The AIRBAG ASSEMBLY serial number and the INFLATOR serial number are DIFFERENT. The AIRBAG ASSEMBLY serial number MUST be recorded prior to replacement.

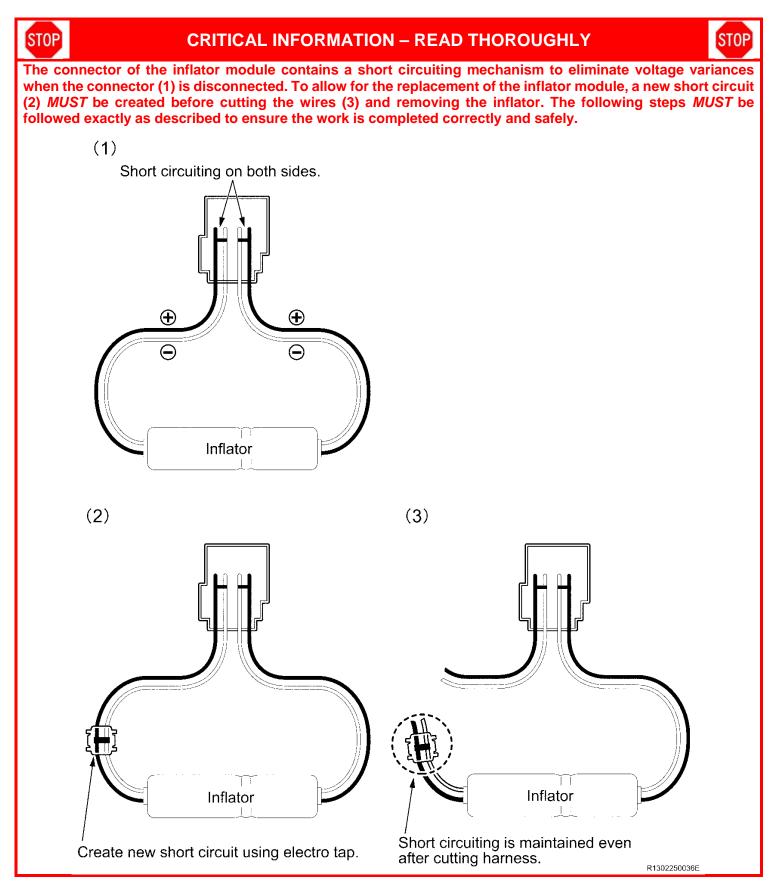
	SSC DSC (1)(2)(3)(4)(5)		
User ID:	Technician Name:		
Dealer Code:	e: Dealer Name:		
Time: 03/30/2015 05:15 AM PDT	VIN: 1NX BR32E 14Z308698 [2004 Corolla SUPER WHITE]		
Original A Between	*#079543912LF6***079543912LF6* </th		
	code scanner is strongly recommended when entering Airbag Assembly Serial Number.		
If mar	anually typing serial number, you MUST include all leading zeros. (If applicable)		
	* Airbag Assembly Serial Number:		

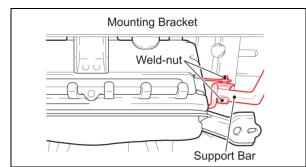
## AIRBAG SERIAL NUMBER IS MISSING OR IS UNREADABLE

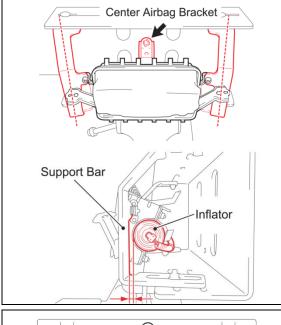


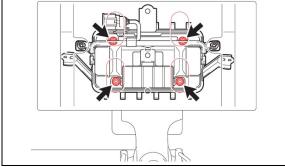


# X. INFLATOR REPLACEMENT









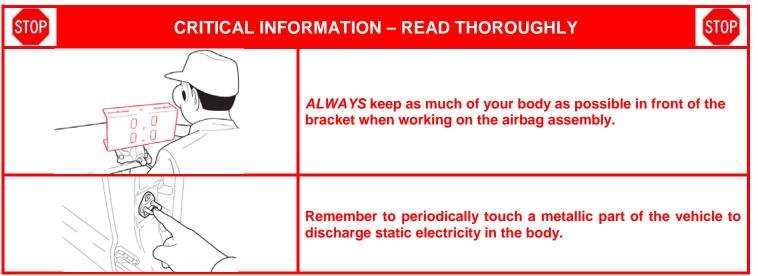
## 1. MOUNT THE AIRBAG IN THE MOUNTING BRACKET

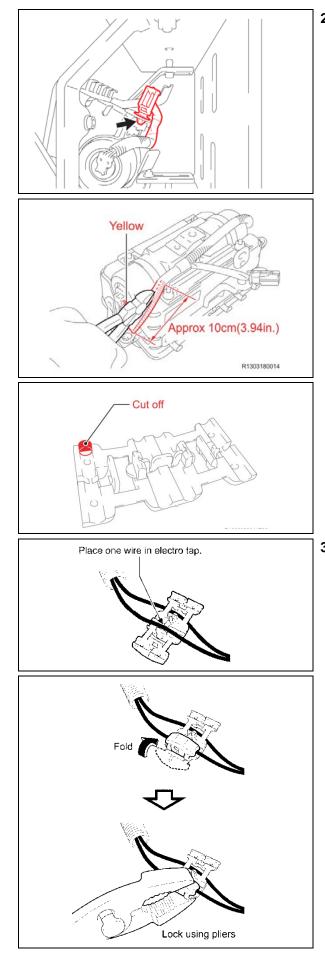
a) Position the airbag so that the airbag weld-nuts are between the support bars and mounting bracket and install the bolts.

- b) Position the support bars at an angle as shown in the illustration.
- c) Confirm the center airbag bracket is facing up.

# NOTE: The position of the support bars is critical to create clearance for the removal of the inflator.

- d) Position the airbag so that all four nuts can be removed through the access holes.
- e) Tighten the nuts holding the support bars to the mounting bracket.
- f) Confirm the following:
  - Mounting bracket is secure in the vise.
  - Airbag is secure in the support bars.
  - 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.





## 2. PREPARE TO INSTALL THE SHORT CIRCUIT

a) Disengage the harness clamp.

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



- 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.

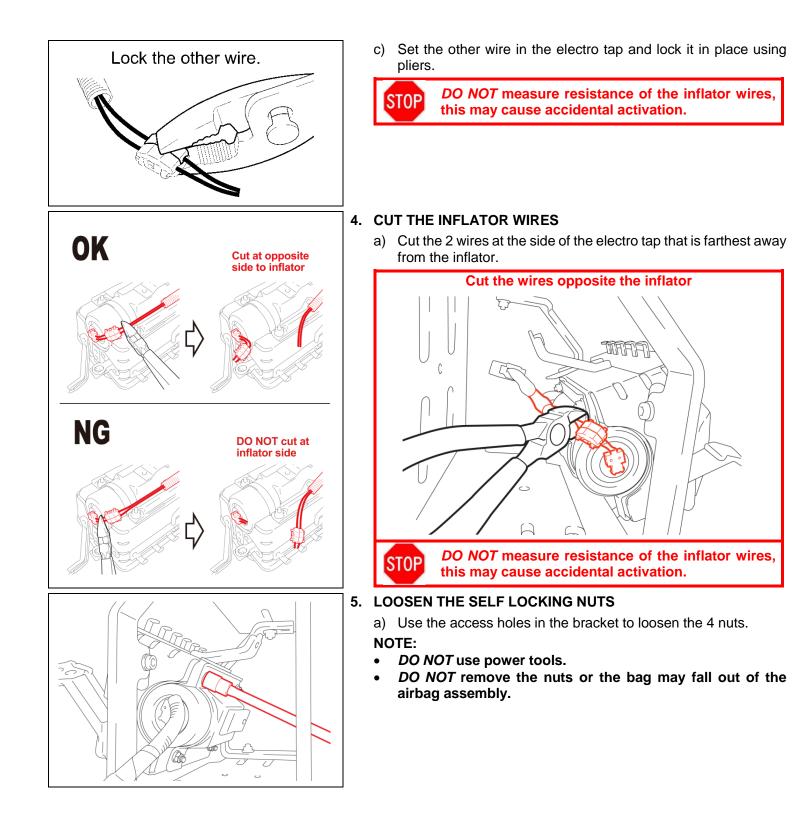
c) Cut off the tab of the electro tap shown in the illustration. NOTE: The electro tap is included in the inflator parts kit.

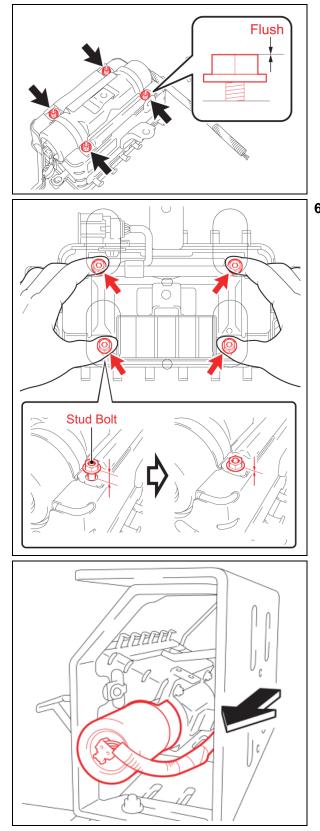
STOP This tab *MUST* be removed to ensure a good short.

- 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.





- b) Loosen the nuts until they are flush with the studs.
- c) Use a marker to mark the nuts as they are not to be reused.

NOTE: *DO NOT* reuse the old nuts, new nuts *MUST* be used.

## 6. REMOVE THE INFLATOR

a) Gently push in the 4 studs until the nuts contact the airbag case to allow for inflator removal.

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

STOP

## ENSURE YOU ENTER BOTH THE OLD AND NEW INFLATOR SERIAL NUMBER IN THE APPROPRIATE SPOT OF THE APPLICATION -DO NOT ENTER THE AIRBAG SERIAL NUMBER FOR THIS STEP-

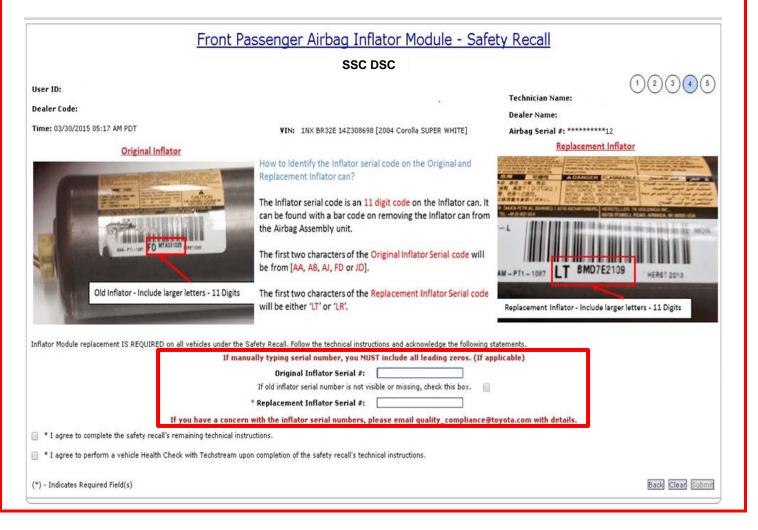


## 7. SCAN THE OLD AND NEW INFLATOR SERIAL NUMBER

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

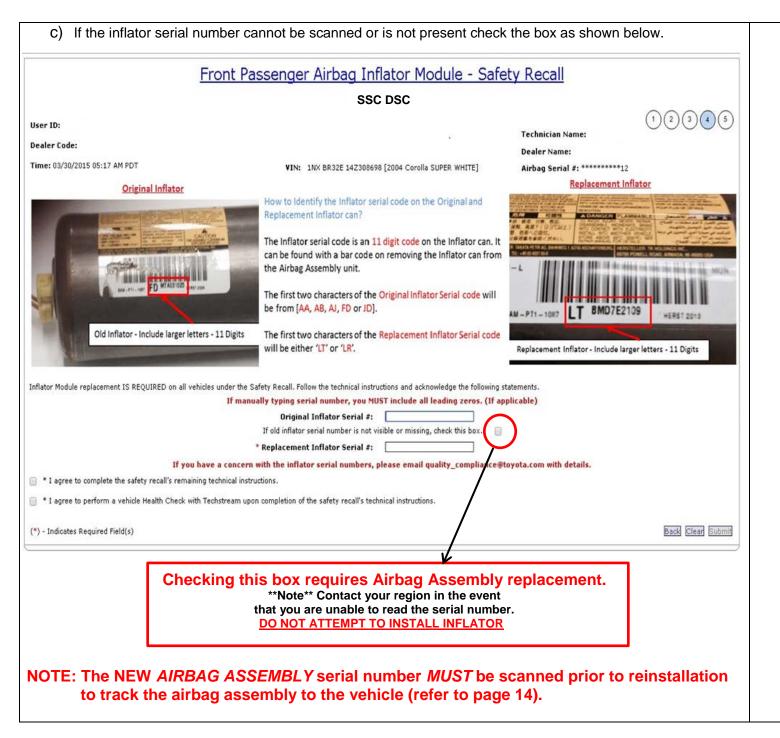
# **ATTENTION:** This information is **CRITICAL**

- 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 the new inflator that is being installed in the vehicle.





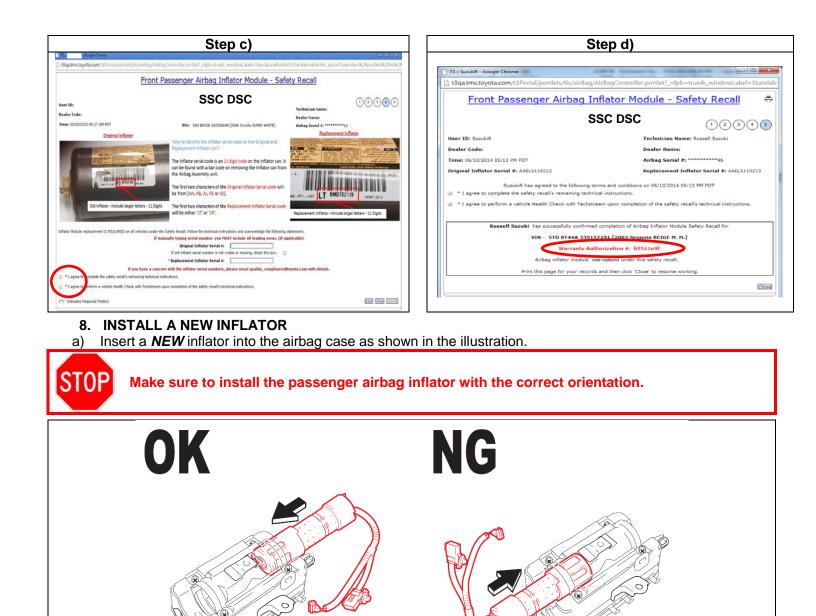
Depending on the serial data scanned during a previous Takata repair, you may NOT be asked to enter an Original Inflator Serial Number



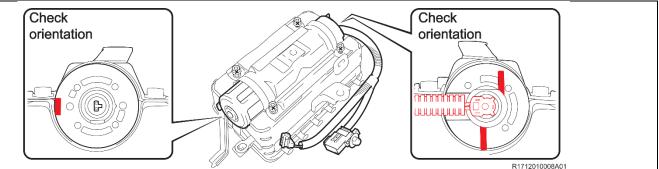
- d) Confirm agreement by checking the two boxes.
- e) Record the Warranty Authorization # to be included in the warranty claim.
- f) Place the old inflator in the parts box and take it immediately to the parts department.

#### NOTE:

- Keep all shipping paperwork with the box that it came in.
- 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 with details.



b) Set the inflator with the correct orientation as shown in the illustration.



- c) Remove the 2 old nuts on the harness connected side.
- d) Store the removed nuts in a separate container.
- e) Match the flat part of a **NEW** position determining plate of the harness connected side with the projecting part of the inflator.
- f) Temporarily install 2 **NEW** nuts and position determining plate by hand on the stud bolts.

R1712010007A01

# If the flat surfaces are not aligned with each other, the orientation of the inflator could be STOP displaced, causing the airbag to fail in deployment. Install Flats are aligned. temporarily by hand. ากกรีกกกรีที่ก J.H.J.H.H.H.H.H.J.H.J. R1712010010A01

- Remove the 2 old nuts on the harness unconnected side. g)
- Store the removed nuts in a separate container. h)
- Match the flat part of a **NEW** position determining plate of the harness unconnected side with the projecting i) part of the inflator.
  - Temporarily install 2 **NEW** nuts and position determining plate by hand on the stud bolts.

If the flat surfaces are not aligned with each other, the orientation of the inflator could be **STOP** displaced, causing the airbag to fail in deployment. Install Flats are aligned. temporarily by hand. D R1712010012A01

Push the inflator towards the position determining plate of the harness unconnected side to eliminate any k) gap.

If any gap exists, the aligned flats may move apart, resulting in failure in normal deployment of the airbag.

I) Tighten 4 nuts evenly in several increments in the order shown in the illustration using a socket driver while pushing the position determining plate of the harness connected side and inflator. (You will encounter some resistance during tightening because these nuts are self-locking nuts.)

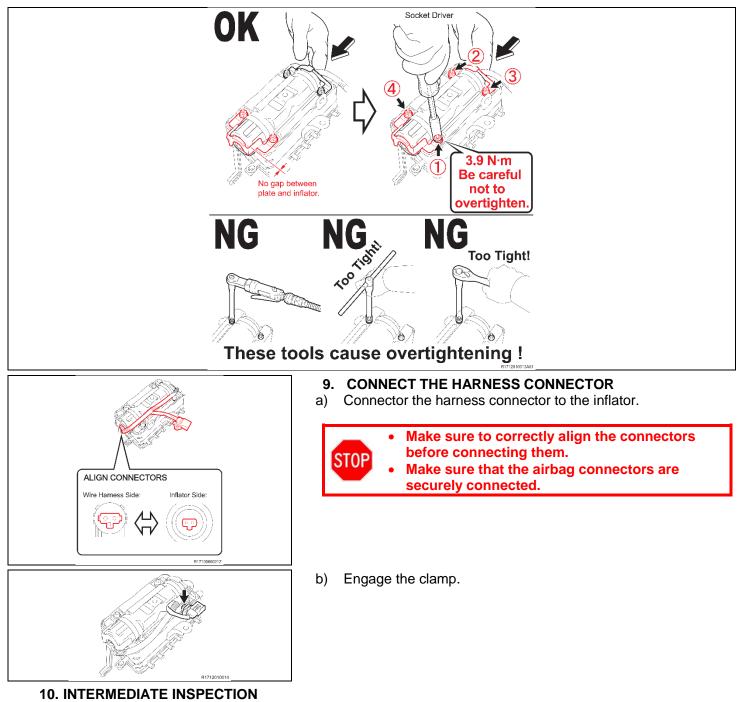
Torque: 3.9 N\*m (40 kgf\*cm, 35 in.\*lbf)



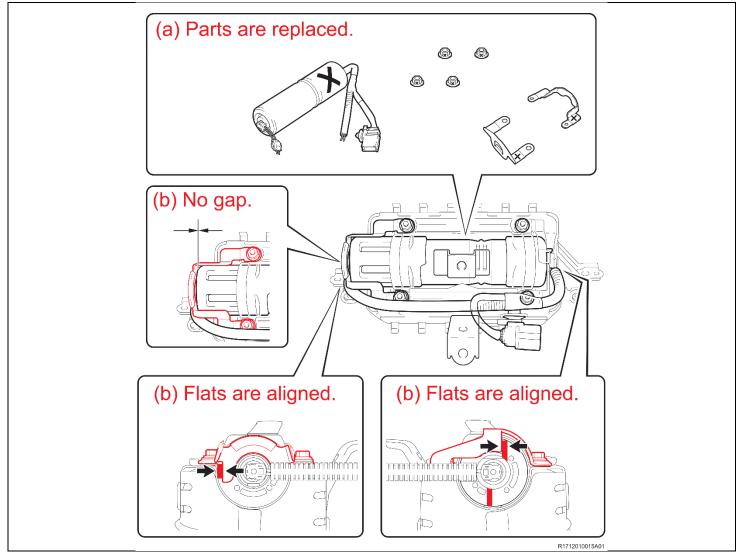
**STOP** 

i)

The tightening torque is low (3.9 N·m). Use of an air ratchet wrench or tightening strongly with a Thandle wrench or a ratchet handle may cause deformation of the stud bolt.

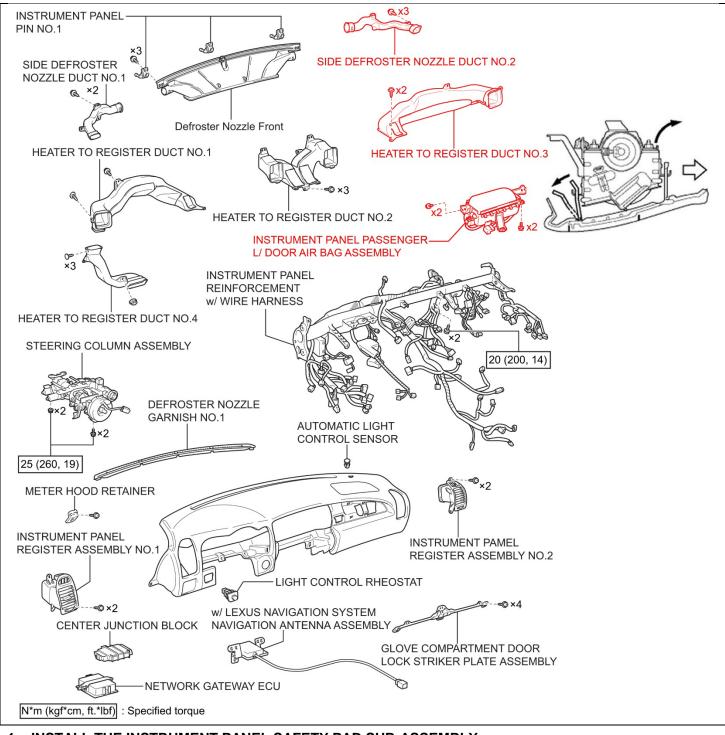


- a) Check that the inflator, plates and 4 nuts are replaced.
- b) Check that positions of the inflator and the position determining plate are correct. (The flats should be aligned and there should be no gap.)



# XI. FRONT PASSENGER AIRBAG ASSEMBLY INSTALLATION

- 1. REINSTALL THE AIRBAG ASSEMBLY IN THE INSTRUMENT PANEL
  - a) Position the airbag assembly in the instrument panel, engage the straps, and then install the 4 bolts.
  - b) Install the 2 screws and the heater to register duct.
  - c) Install the 3 screws and the side defroster nozzle.



- 1. INSTALL THE INSTRUMENT PANEL SAFETY PAD SUB-ASSEMBLY
  - a) Refer to TIS for reinstallation instructions 2002-2005 MY 2006 2007 2008 2009 2010
- 2. RECONNECT THE NEGATIVE BATTERY CABLE
- 3. PERFORM A HEALTH CHECK AND DIAGNOSTIC REPORT

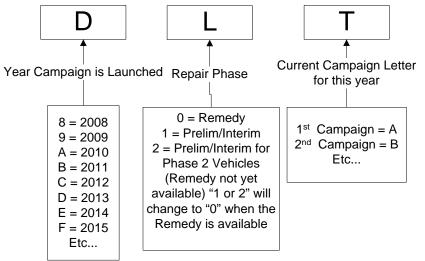
# ◄ VERIFY REPAIR QUALITY ►

- 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 position determining plate is installed correctly

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

## **XII. APPENDIX**

#### A. CAMPAIGN DESIGNATION DECODER



### **B. CAMPAIGN PARTS DISPOSAL**

**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