# TECHNICAL INSTRUCTIONS FOR

# SAFETY RECALL G0P

# FRONT PASSENGER AIRBAG INFLATOR MODULE

# **CERTAIN 2009 – 2012 MODEL YEAR COROLLA**

#### Updated 11-2-17

Update 11-2-17 - 2012 MY added

Update 8-31-17 - 2011 MY added

Update 06-02-17 - 2010 MY added

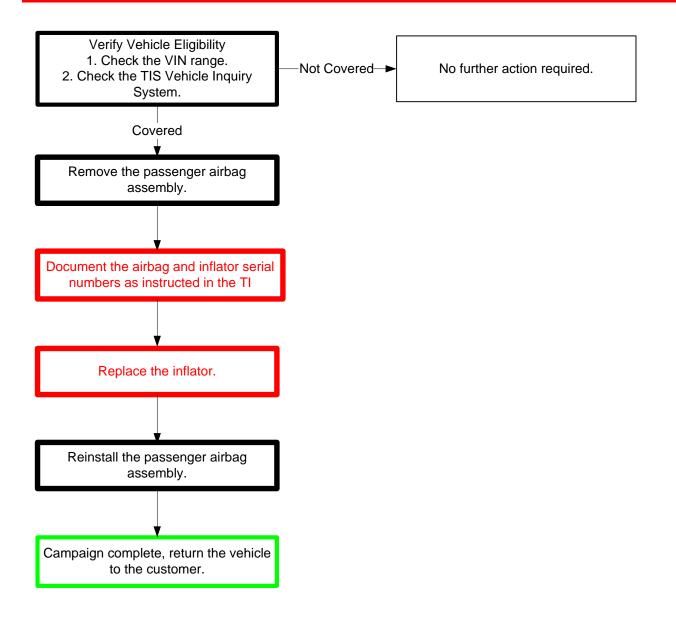
The repair quality of covered vehicles is extremely important to Toyota. All dealership technicians performing this repair are required to successfully complete the most current version of the E-Learning course "Safety Recall and Service Campaign Essentials". To ensure that all vehicles have the repair performed correctly; technicians performing this repair are required to currently hold at least one of the following certification levels:

- Toyota Expert (Electrical)
- Master
- Master Diagnostic Technicians

Always check which technicians can perform the recall remedy by logging on to <u>https://www.uotdealerreports.com</u>. It is the dealership's responsibility to select technicians with the above certification level or greater to perform this repair. Carefully review your resources, the technician skill level, and ability before assigning technicians to this repair. It is important to consider technician days off and vacation schedules to ensure there are properly trained technicians available to perform this repair at all times.

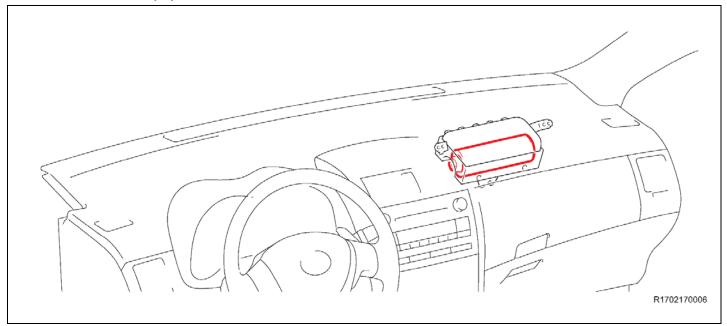
# I. OPERATION FLOW CHART

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 inflator rupture during airbag deployment. In the event of an inflator rupture, 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**

- 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 Description		Quantity
Instrument Panel Airbag Inflat	or Kit*	1
*The kit above includes the follow	ing parts.	
Inflator	1	
Self Locking Nut	5	
Position Determining Plate	1	
	Instrument Panel Airbag Inflat *The kit above includes the follow Inflator Self Locking Nut	Instrument Panel Airbag Inflator Kit* *The kit above includes the following parts. Inflator 1 Self Locking Nut 5

For vehicles equipped with curtain shield airbags

Part N	umber		Part Description		
04006	006-66108		Clip Kit*		1
		* The	kit above includes the following	parts.	
	Part I	Number	Part Description	Quantit	У
			Front Pillar Garnish Clip	2	

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

•

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

**D0F CAMPAIGN TOOLS** – These tools where previously provided to the dealership for campaign D0F. These tools are required when performing this repair.

Image	Name	Quantity
Mounting Bracket O O O O O O O O O O O O O O O O O O O	Airbag Mounting Bracket & hardware	1
	Adaptor set*	1

\*The adapter set was sent to dealers at the start of this campaign.

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

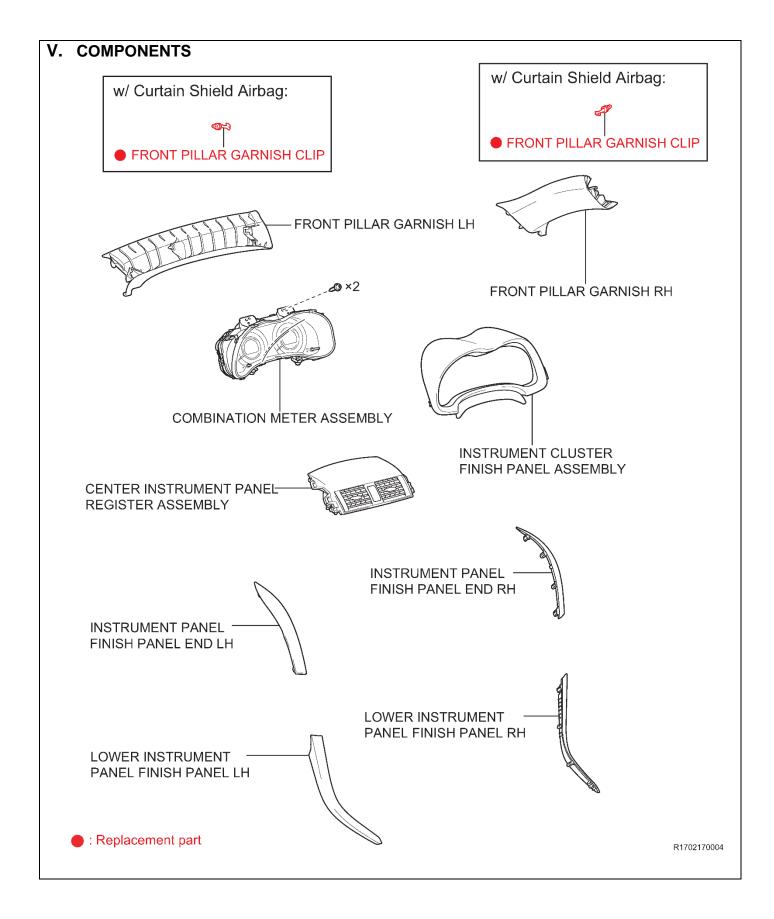
Part Number	Part Name	Quantity
09890-47010-01	Anti-Static Mat Set	1

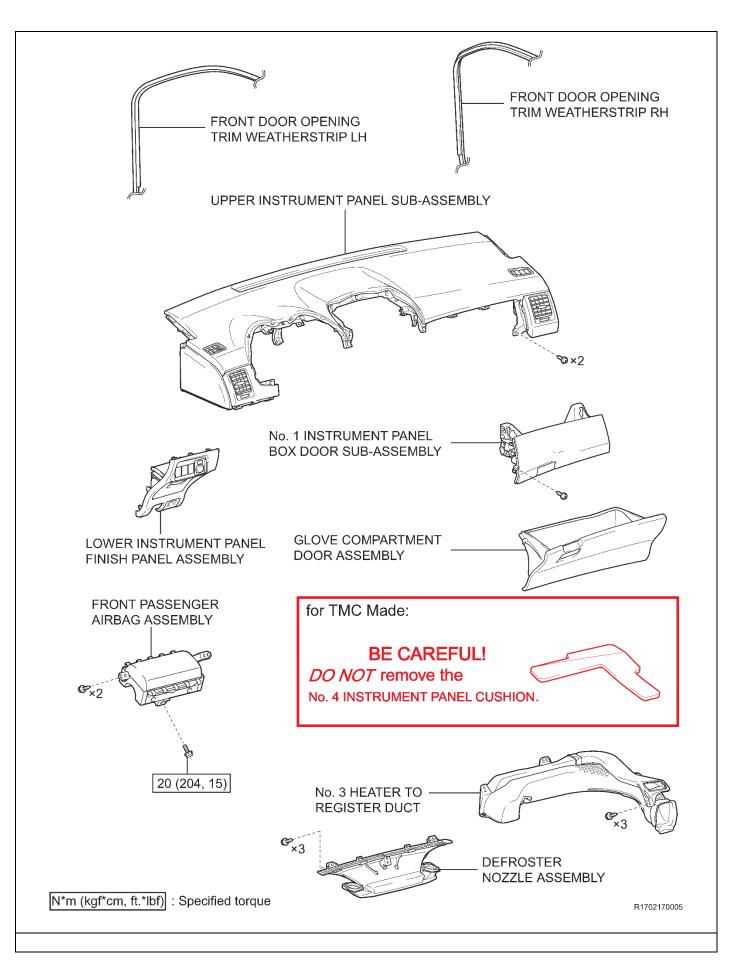
**F0J CAMPAIGN TOOLS** – This tool was provided to the dealership for campaign F0J and will be used for this campaign also. This tool is required when performing this repair.

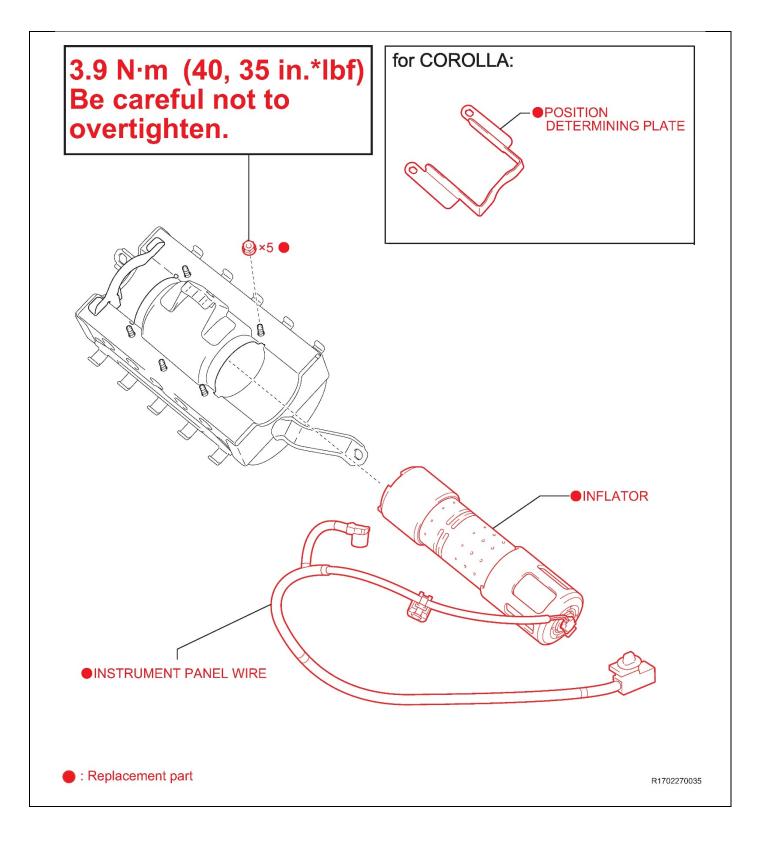
#### NOTE: The scanner for F0J must be used, because it has the capability to scan bar and QR codes.

Image	Name	Quantity
	Barcode Scanner	1

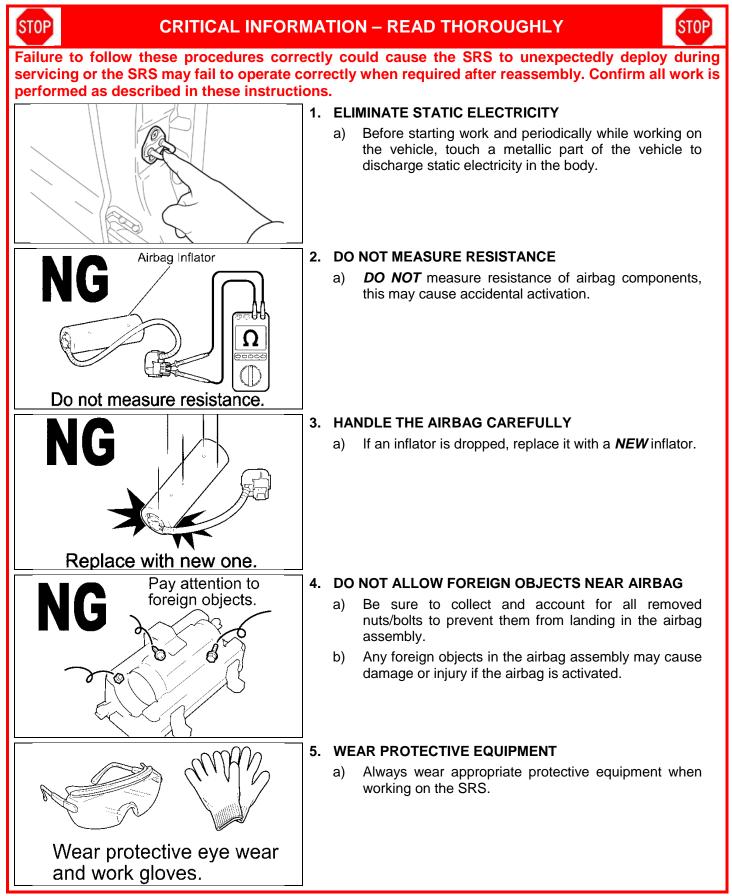
NOTE: This tool *CANNOT* be ordered through the parts or tools system. If additional tools are needed, they can be sourced locally.



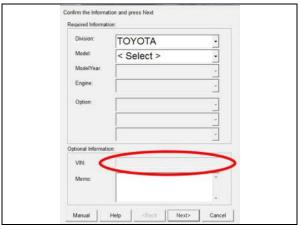




# **VI. SAFETY PRECAUTIONS**



# **VII. 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 MAY NEED to be entered manually depending upon model year.

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.

The VIN MAY NEED to be entered manually in ALL CAPS when launching the Techstream software, the VIN MAY OR MAY NOT auto-populate due to model year.
The serial number recording application will be disabled and the repair cannot be completed if a health check and diagnostic report is not performed and recorded by TMS.

### **VIII. WORK AREA PREPARATION**

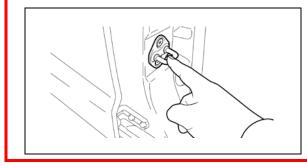
**STOP** 

**STOP** 

#### **CRITICAL INFORMATION – READ THOROUGHLY**

STOP

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.



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.

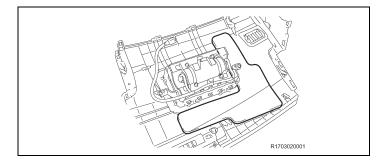
# IX. PASSENGER AIRBAG INFLATOR REPLACEMENT

#### 1. REMOVE THE AIRBAG ASSEMBLY

STOP

**STOP** 

- Wait at least 90 seconds after disconnecting the cable from the negative battery terminal to prevent airbag and seat belt pre-tensioner deployment.
- Follow all precautions as outlined on TIS before servicing the SRS system.
- a) Refer to TIS for instructions on airbag removal: 2009 MY 2010 MY 2011 MY 2012 MY



NOTE: For TMC made Corolla only (VIN starts with JT). Do not remove the No. 4 instrument panel cushion.

#### 2. 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 F0J).
- 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.

Vehicle Identification Number	Search		
Enter a 17 Digit VIN below to sear			
V 11NX BR32E 000000000			
al			
Vehicle Information			
Division: TOYOTA	Model: Corolla	Grade: CE	Model Year: 2003
Drive Type: 2WD	Body Type: 4Dr. Sedan	Engine Family: 4-cylinder - 122	Transmission:
Date of First Use:	Production Date: 01/18/2002	Plant Code: Z - FREMONT PLANT - NUMMI	
VIN: 1NX -BR32E-00000000	Standard Equipment: Click here	to display	
Exterior Color: 03M5, SANDRIF	T METALLIC	Interior Color: FA41, FA41	
		Interior Trim Color: FA, *	Interior Fabric: F, *
Vehicle accessories are not curre	ntly available. Try your query again later.		
Campaign Service History	Warranty DTC History Dia	gnostic Report	
Service Campaign			
Compaign Description: Colut	Parall DOS and Alatina 2002 2004 Ma	del Vene Corolla, Corolla Natrix, Securita, en	d Tundra Mahidan 2002 2002 Madel Verse
Vehie	Econt Passenger Hodule	del Year Corolla, Corolla Matrix, Sequoia, an	u runura venicles, 2002-2003 Model Year
Completion Status: Not C	omplete E04 heck applicability for VIN		

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

NOTE: The person logged-in to TIS <u>MUST</u> be the person performing the repair.

Front Pas	<u>senger A</u>	<u> Airbag Infla</u>	tor Module - S	Safety Recall
		SSC -	DSF	
				(1) $(2)$ $(3)$ $(4)$ $(5)$
				00000
User ID: SuzukiR				
				ne: Russell Suzuki
Dealer Code:			Dealer Name:	
Time: 06/10/2014 02:07 PM P	DT		Airbag Serial #	:
Original Inflator Serial #:			Replacement I	Gatas Castal &
Original Innator Serial #:			Replacement I	mator senal #:
	VIN: STO	BTA	BEIGE M. M.]	
	VIN: SIL		HOUS BOLL HELDE M. M. J	
	(	Mileage*		
Task Airbag # Record	Dealer	User	Time	Status Not Started
Inflator # Record				Not Started
Terms & Conditions				Not Started
New Airbag #		+ +		Not Started

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 inflator has already been replaced on this VIN, there is no need to perform the campaign again.

#### 3. 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:

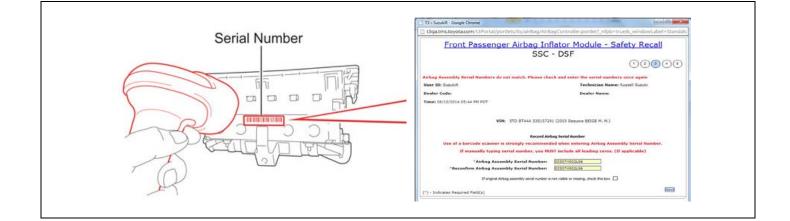
- Use the scanner that was provided for SSC F0J. The scanner for F0J is needed due to its ability to read bar and QR codes.
- The scanner works best in low light conditions.
- Always hold the scanner directly in front of and parallel to the barcode label.

#### 4. SCAN THE AIRBAG SERIAL NUMBER

STOP

Scan the AIRBAG ASSEMBLY serial number a) **AIRBAG SERIAL NUMBER IDENTIFICATION** 2 times. • The airbag serial number is ALWAYS the 12 1) Confirm the cursor is in the first serial **DIGITS** located between the asterisks. number box then scan the serial. • The 3 digits before the asterisk ARE NOT part of 2) Position the cursor in the second serial the serial number, and SHOULD NOT be entered number box then scan the serial. or an inaccurate response may be returned. b) Click next. Airbag Serial Number Label Example NOTE: If both serial numbers that are entered do • not match, confirm and reenter. If the serial number barcode will not scan, • F22 \*00000000XX0\* it can be entered manually.

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



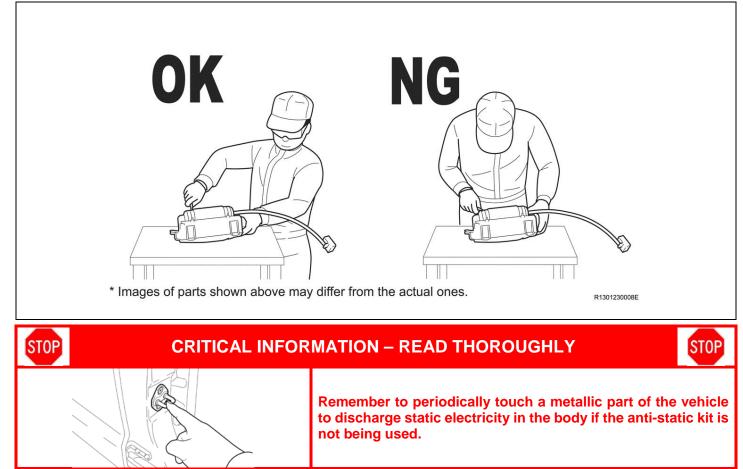
# AIRBAG SERIAL NUMBER IS MISSING OR IS UNREADABLE

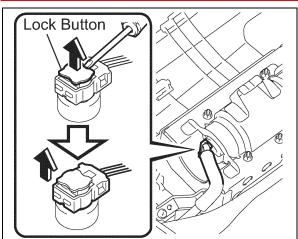
If the airbag serial number is un	readable or not present check the box as shown below.
Front Passanger	Airbag Inflator Module - Safety Recall
Tronc Passenger	
	SSC - DSF
User ID: SuzukiR	Technician Name: Russell Suzuki
Dealer Code:	Dealer Name:
Time: 06/12/2014 03:43 PM PDT	
VIN:	1NX BR32E 00000000 (2003 Corolla, Beige)
	Record Airbag Serial Number
Use of a barcode scanner is st	rongly recommended when entering Airbag Assembly Serial Number.
If manually typing seri	al number, you MUST include all leading zeros. (If applicable)
Airban Assembl	ly Serial Number:
*Reconfirm Airbag Assembl	
H original distant former	mbly serial number is not visible or missing, check this box 🗷
	ease contact Region for further information
	Contraction of the second seco
(*) - Indicates Required Field(s)	Each Next
After the Region approves the A	Airbag Assembly replacement and the new part is received, record t
After the Region approves the A NEW airbag serial number in the	· · · · · · · · · · · · · · · · · · ·
After the Region approves the A NEW airbag serial number in the	Airbag Assembly replacement and the new part is received, record t e Serial Number Recording Application.
After the Region approves the A NEW airbag serial number in the	Airbag Assembly replacement and the new part is received, record t e Serial Number Recording Application.
After the Region approves the A NEW airbag serial number in the Front Passenger	Airbag Assembly replacement and the new part is received, record to e Serial Number Recording Application. Airbag Inflator Module - Safety Recall SSC - DSF
After the Region approves the A NEW airbag serial number in the Front Passenger	Airbag Assembly replacement and the new part is received, record to e Serial Number Recording Application. Airbag Inflator Module - Safety Recall SSC - DSF (1 2 3 (1) Technician Name: Russell Suzuki
After the Region approves the A NEW airbag serial number in the <u>Front Passenger</u> User ID: Suzukik Dealer Code:	Airbag Assembly replacement and the new part is received, record to e Serial Number Recording Application. Airbag Inflator Module - Safety Recall SSC - DSF (1 2 3 (1) Technician Name: Russell Suzuki
After the Region approves the A NEW airbag serial number in the <u>Front Passenger</u> User ID: Suzukik Dealer Code: Time: 06/12/2014 03:43 FM PDT	Airbag Assembly replacement and the new part is received, record to e Serial Number Recording Application. Airbag Inflator Module - Safety Recall SSC - DSF (1 (2) (3) (4) (5) Technician Name: Russell Suzuki Dealer Name:
After the Region approves the A NEW airbag serial number in the Front Passenger User ID: Suzukik Dealer Code: Time: 06/12/2014 03:43 FM PDT VIN;	Airbag Assembly replacement and the new part is received, record to e Serial Number Recording Application. Airbag Inflator Module - Safety Recall SSC - DSF (1 2 3 (1) 2 ) Technician Name: Russell Suzuki Dealer Name:
After the Region approves the A NEW airbag serial number in the Front Passenger User ID: Suzukik Dealer Code: Time: 06/12/2014 03:43 PM PDT VIN:	Airbag Assembly replacement and the new part is received, record to e Serial Number Recording Application. Airbag Inflator Module - Safety Recall SSC - DSF () (2) (2) (2) (2) Technician Name: Russell Suzuki Dealer Name: 1NX BR32E 0000000 (2003 Corolla, Beige)
After the Region approves the A NEW airbag serial number in the Front Passenger User ID: Suzukik Dealer Code: Time: 06/12/2014 03:43 PM PDT VIN:	Airbag Assembly replacement and the new part is received, record to e Serial Number Recording Application. Airbag Inflator Module - Safety Recall SSC - DSF () () () () () () () () Technician Name: Russell Suzuki Dealer Name: INX BR32E 0000000 (2003 Corolla, Beige) MX BR32E 0000000 (2003 Corolla, Beige)
After the Region approves the A NEW airbag serial number in the Front Passenger User ID: Suzukik Dealer Code: Time: 06/12/2014 03:43 FM PDT VIN: Use of a barcode scanner is st If manually typing seri	Airbag Assembly replacement and the new part is received, record to e Serial Number Recording Application. Airbag Inflator Module - Safety Recall SSC - DSF () () () () () () () () Technician Name: Russell Suzuki Dealer Name: INX BR32E 0000000 (2003 Corolla, Beige) MX BR32E 0000000 (2003 Corolla, Beige)

# X INFLATOR REPLACEMENT

# 1. WORKING WITH AN AIRBAG

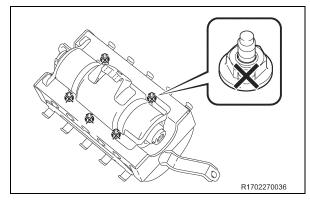
- a) Carefully place the airbag on the bench inflator side up.
- NOTE: Place clean sheet(s) of paper on the bench to protect the airbag.
- b) Avoid standing directly over the inflator.



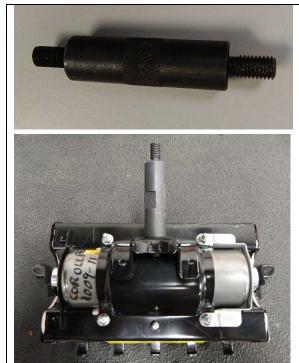


#### 2. AIRBAG PREPARATION

- a) Use a screwdriver to release the lock button.
- b) Disconnect the connector.
- c) Disconnect the wire harness clamps.
- NOTE: Disconnect the connector where the fixed stop plate is located.



d) Mark all 5 nuts so they will not be reused.

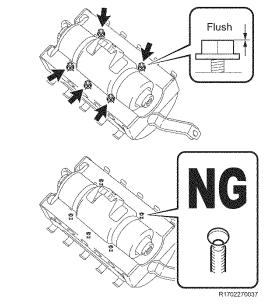


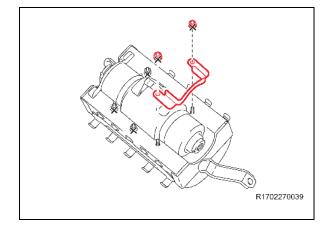
e) Use the long adaptor shown.

 f) Thread the adaptor into the airbag as shown.
 Note: Use the same mounting nut on the airbag that attaches the airbag to the vehicles cross tube.



g) Mount the airbag into the mounting bracket as shown. Pass the stud on the adaptor through the hole, on the top in the middle of the bracket, and secure with the nut.





#### 3. REMOVE THE SELF LOCKING NUTS

a) Loosen the 5 nuts until the nuts are at the top of the studs as shown, through the openings in the mounting bracket.

Note: The airbag may need to be turned to the left or right to access the center nut.

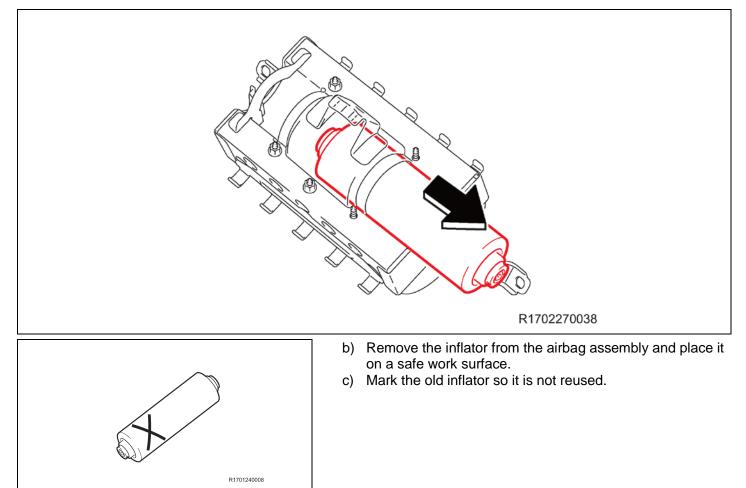
- b) Remove the 2 nuts on the end where the bracket is removable.
- c) Remove the bracket and discard.
- d) Reinstall the 2 nuts, until the nut is flush with the top of the stud.

NOTE:

• DO NOT use power tools.

#### 4. REMOVE THE INFLATOR

a) Gently push in the studs until the nuts make contact with the housing to loosen the inflator for removal.

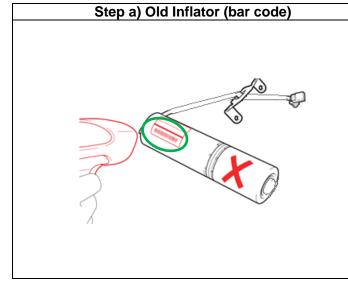


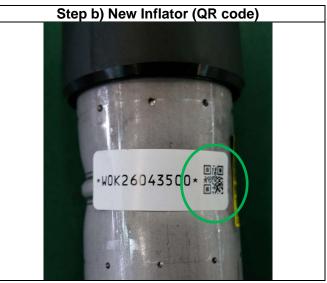
#### 5. SCAN THE OLD AND NEW INFLATOR SERIAL NUMBER

- a) Scan the **OLD** inflator bar code.
- b) Scan the **NEW** inflator QR code.

NOTE: This information is CRITICAL

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





- c) Confirm agreement by checking the two boxes.
- d) Record the Warranty Authorization # to be included in the warranty claim.
- e) Place the old inflator in the parts box and return 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
   with details.

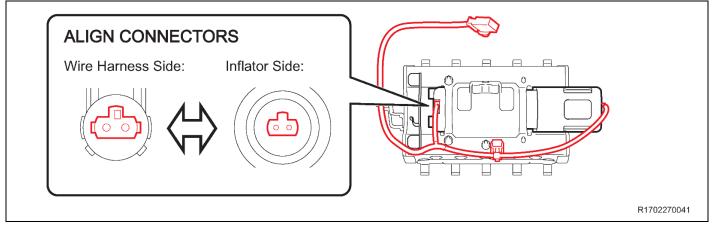
-true&_windowLabel=Standalc
afety Recall 🚔
Number of Controls
00000
e: Russell Suzuki
***************************************
flator Serial #: AAEL5110213
13 PM PDT
call's technical instructions.
Safety Recall for
1
king.
Close

#### 6. INSTALL THE NEW INFLATOR

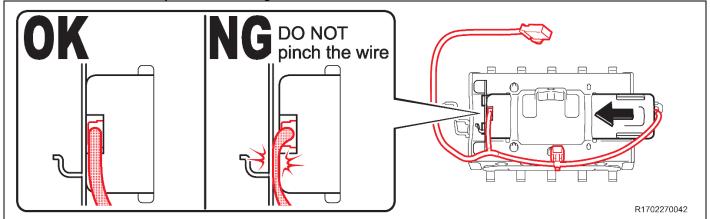
a) Carefully slide the new inflator into the airbag assembly and align as shown.

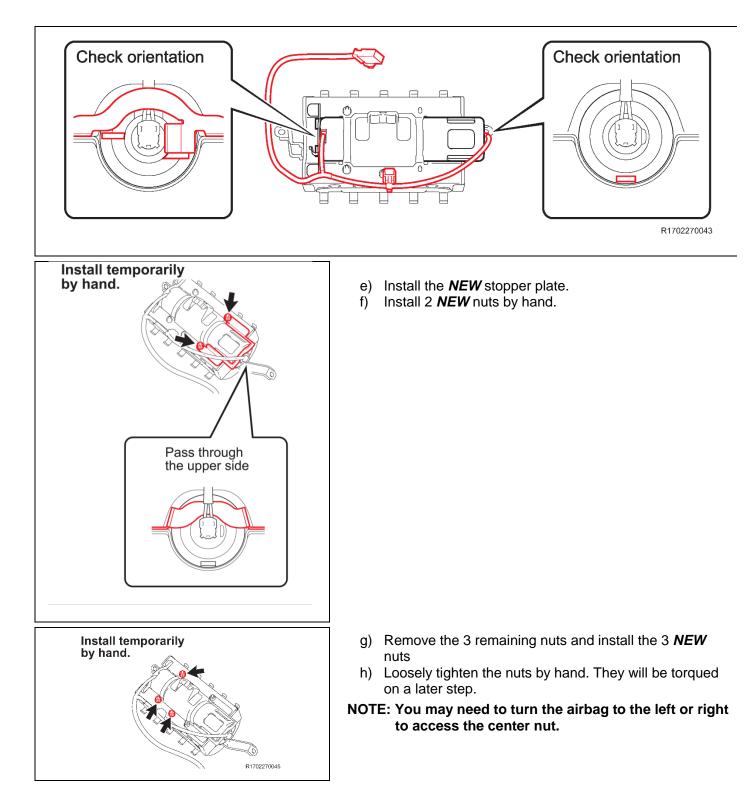
<image><text>

b) Connect the connector to the inflator and ensure that the connector lock is fully engaged as shown.c) Route and secure the wire harness as shown.



d) Fully insert the inflator and ensure that the inflator is correctly orented as shown. **NOTE: DO NOT pinch the wiring between the bracket and the inflator.** 





i) Push the inflator towards the position determining plate and eliminate any gaps.

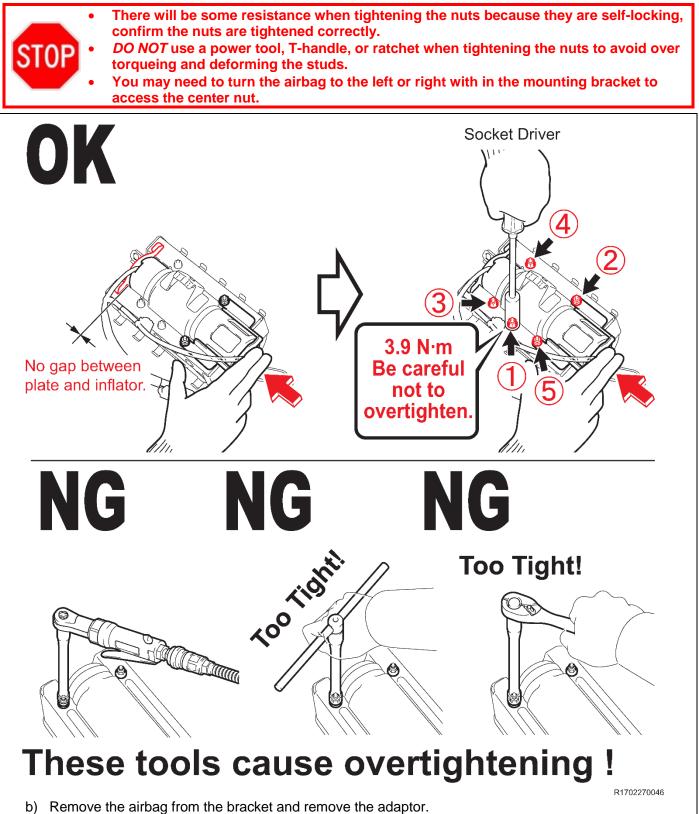


If any gaps exist, the flats may move apart and could result in abnormal operation during airbag deployment.

#### 7. TORQUE THE PLATE NUTS

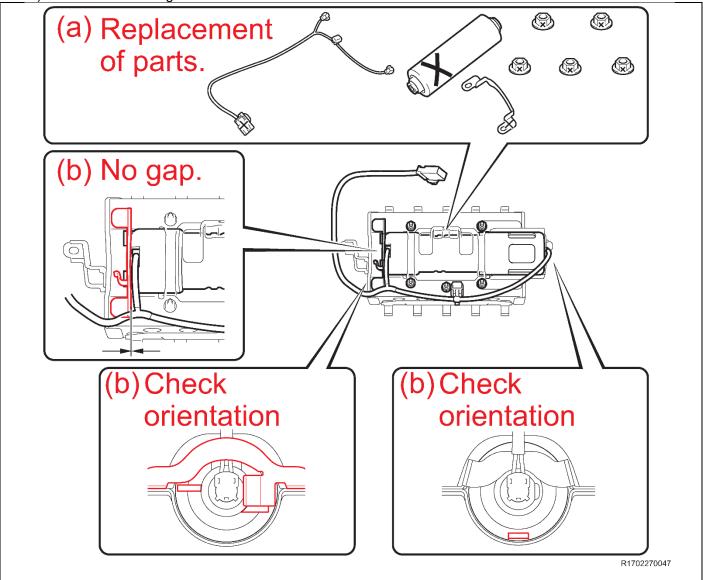
a) Tighten the 5 nuts evenly in several increments in the sequence shown. Use a socket driver or torque wrench to tighten the nuts.

#### Torque: 35in. lbf (3.9N·m)



#### 8. INSPECT THE AIRBAG BEFORE INSTALLATION

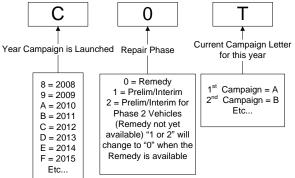
- a) Confirm the **NEW** inflator and 5 **NEW** nuts have been installed.
- b) Confirm the position of the inflator and position determining plates are correct. NOTE: The flats should be aligned and no gaps between the plates and inflator.
- c) Confirm the routing of the inflator wire harness.



# XI FRONT PASSENGER AIRBAG ASSEMBLY INSTALLATION

- 1. REINSTALL THE AIRBAG ASSEMBLY
- a) Refer to TIS for instructions on airbag installation: <u>2009 MY</u> <u>2010 MY</u> <u>2011 MY</u> <u>2012 MY</u>
- 2. RECONNECT THE NEGATIVE BATTERY CABLE
- 3. PREFORM ANY NEEDED VEHICLE INITIALIZATIONS
- 4. PERFORM A HEALTH CHECK AND DIAGNOSTIC REPORT

# ✓ VERIFY REPAIR QUALITY ► Confirm all precautions are follow 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 and position determining plate are installed correctly If you have any questions regarding this update, please contact your regional 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