

IMPORTANT UPDATE

TECHNICAL INSTRUCTIONS FOR SAFETY RECALL F0L DRIVER'S AIRBAG INFLATOR MODULE CERTAIN 2004 – 2005 MODEL YEAR RAV4

Updated 01-14-2021

Updated 1-14-21

- The scanning application process has been updated

Updated 07/17/18

- The Technician Certification Requirements have changed

Updated 4/18/18

- The parts section has been updated

Updated 9/29/15

- The repair procedure has been updated to use the DOF mounting bracket, to hold the airbag while replacing the inflator.

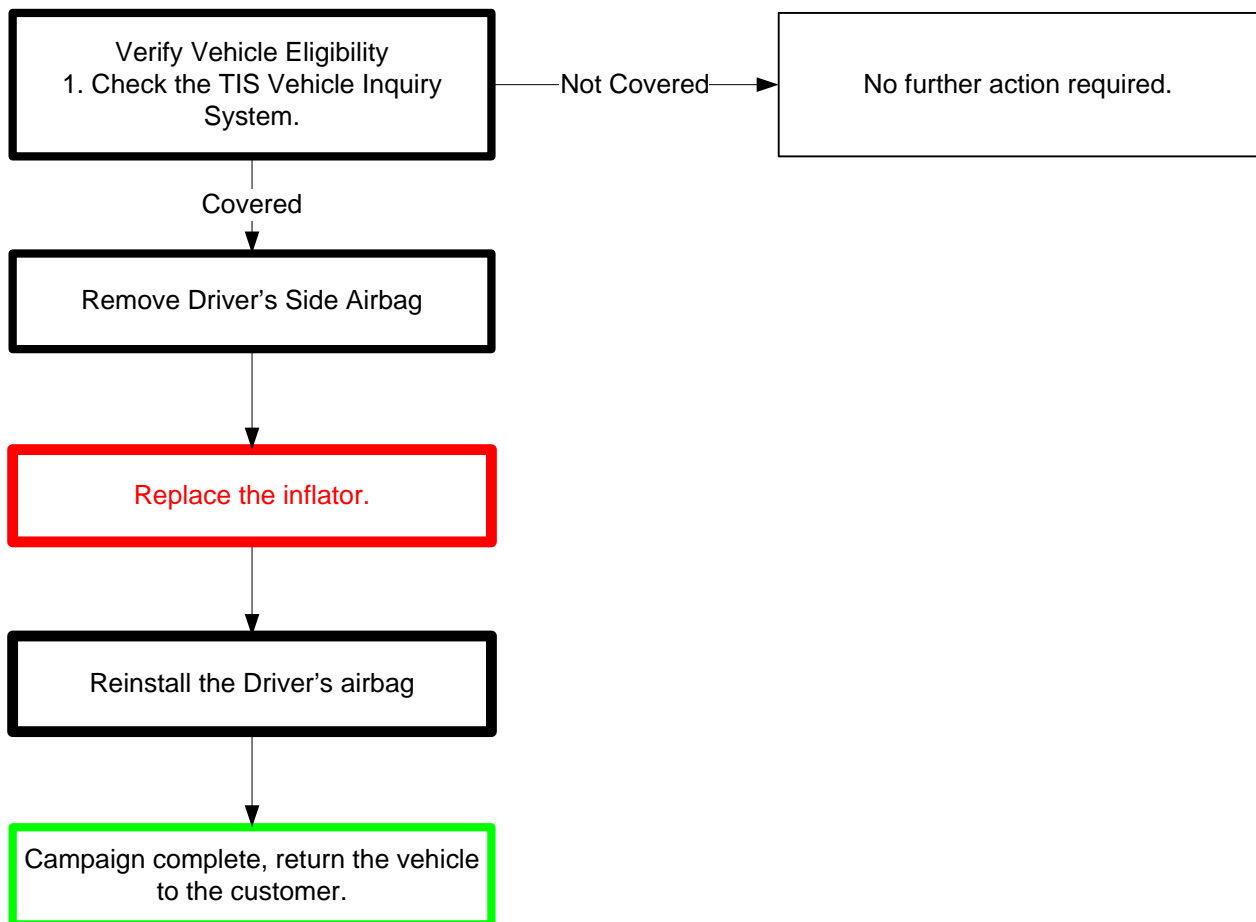
All dealership technicians performing this recall are required to successfully complete the most current version of the E-Learning course "Safety Recall and Service Campaign Essentials". To ensure that all vehicles have the repair performed correctly; technicians performing this recall repair are required to have successfully completed E-Learning course SC18A (if you had previously completed E-Learning Course SC13B, you do not have to take SC18A), in addition to "Safety Recall and Service Campaign Essentials", and currently hold at least one of the following certifications levels:

- Toyota Certified (Electrical)
- Toyota Expert (Any Specialty)
- Master
- Master Diagnostic Technicians

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.

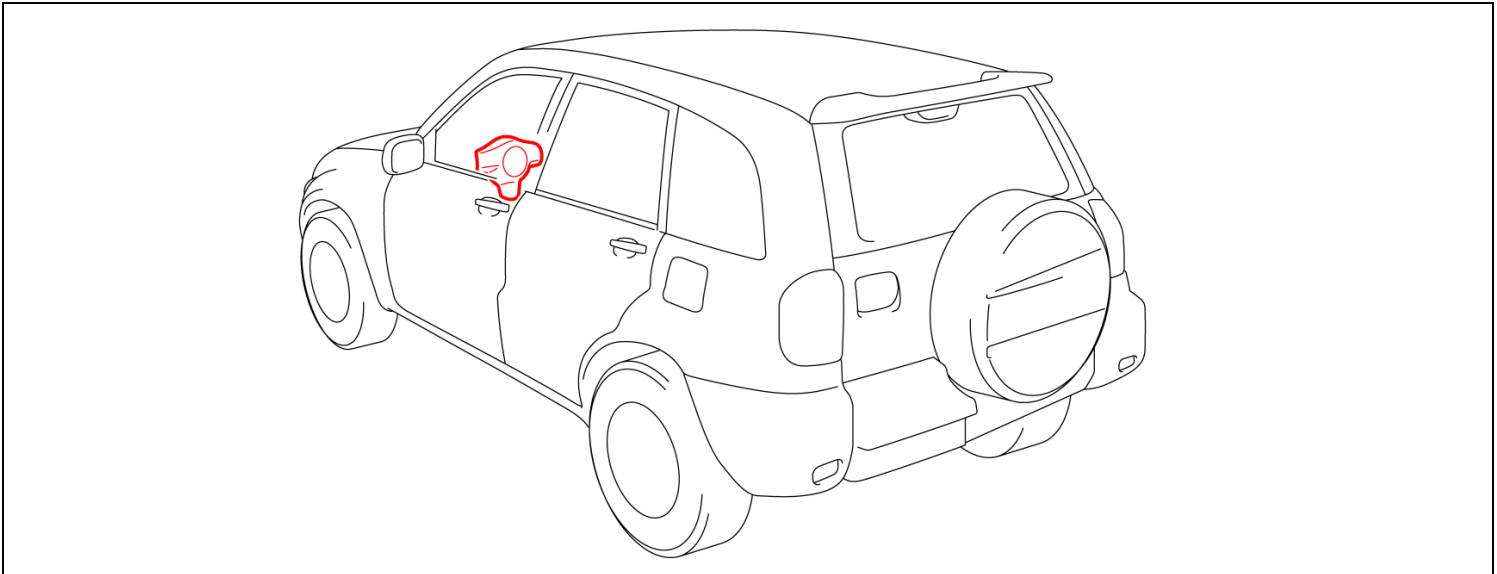
I. OPERATION FLOW CHART

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 a Driver's front dual-stage airbag inflator. Toyota believes these inflators may have an increased potential for moisture intrusion over time. Moisture intrusion could potentially make the inflator assembly more susceptible to rupture during a crash. An inflator rupture may result in metal fragments striking and potentially seriously injuring the vehicle occupants.



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



Only one inflator kit is required per vehicle, ensure you pick the correct part number for your location and model year so that the correct return shipping information is included.

Applicable for: The Continental U.S. 48 States Only

Model	Part Number	Part Description	Quantity
RAV 4	04005-08442	Driver's Side Inflator Kit	1
*The kit above includes the following parts.			
		Inflator	1
		Self Locking Nut	4

Applicable for: Alaska, Hawaii and USTT Locations Only

Model	Part Number	Part Description	Quantity
RAV 4	04005-08342	Driver's Side Inflator Kit	1
*The kit above includes the following parts.			
		Inflator	1
		Self Locking Nut	4

Non-Desiccated Part Recovery

Dealers should discontinue the installation 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
RAV4	2004-2005	45130-42120-C0 45130-42140-C0	PAD ASSY, STEERING WHEEL

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.

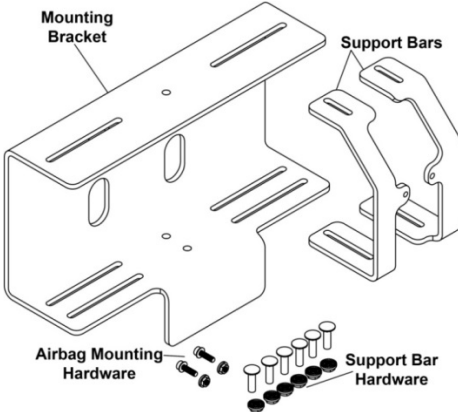

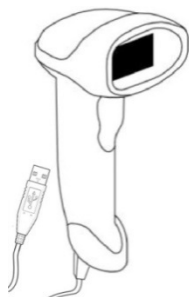
B. TOOLS & EQUIPMENT

- Standard hand tools
- Torque wrench
- 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

E04 CAMPAIGN TOOLS – These tools were previously provided to the dealership for campaign D0F and F0J. These tools are required when performing this repair.

Image	Name	Quantity
	(D0F) Airbag Mounting Bracket & hardware	1
	F0L Mounting Bracket & hardware	2
	Barcode Scanner (D0F & F0J)	1

NOTE: These tools were provided at the start of recall D0F and F0J.

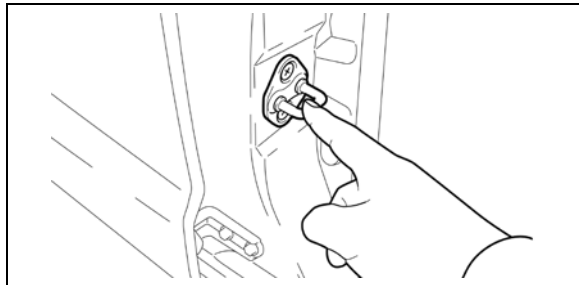
V. SAFETY PRECAUTIONS



CRITICAL INFORMATION – READ THOROUGHLY

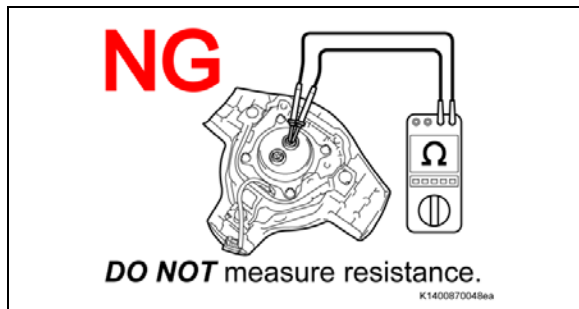


Failure to follow these procedures correctly could cause the SRS to unexpectedly deploy during servicing or the SRS may fail to operate correctly when required after reassembly. Confirm all work is performed as described in these instructions.



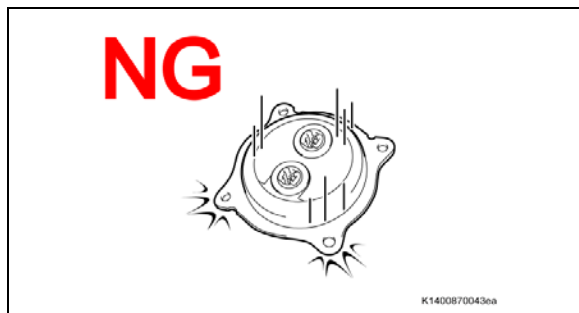
1. ELIMINATE STATIC ELECTRICITY

- 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

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



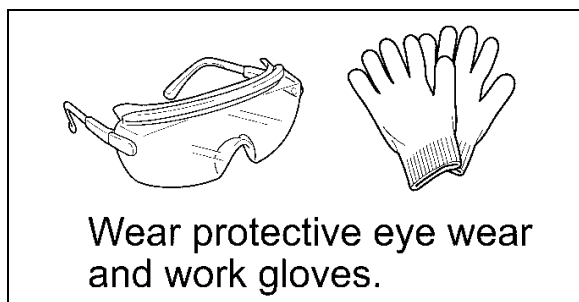
3. HANDLE THE AIRBAG CAREFULLY

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



4. DO NOT ALLOW FOREIGN OBJECTS NEAR AIRBAG

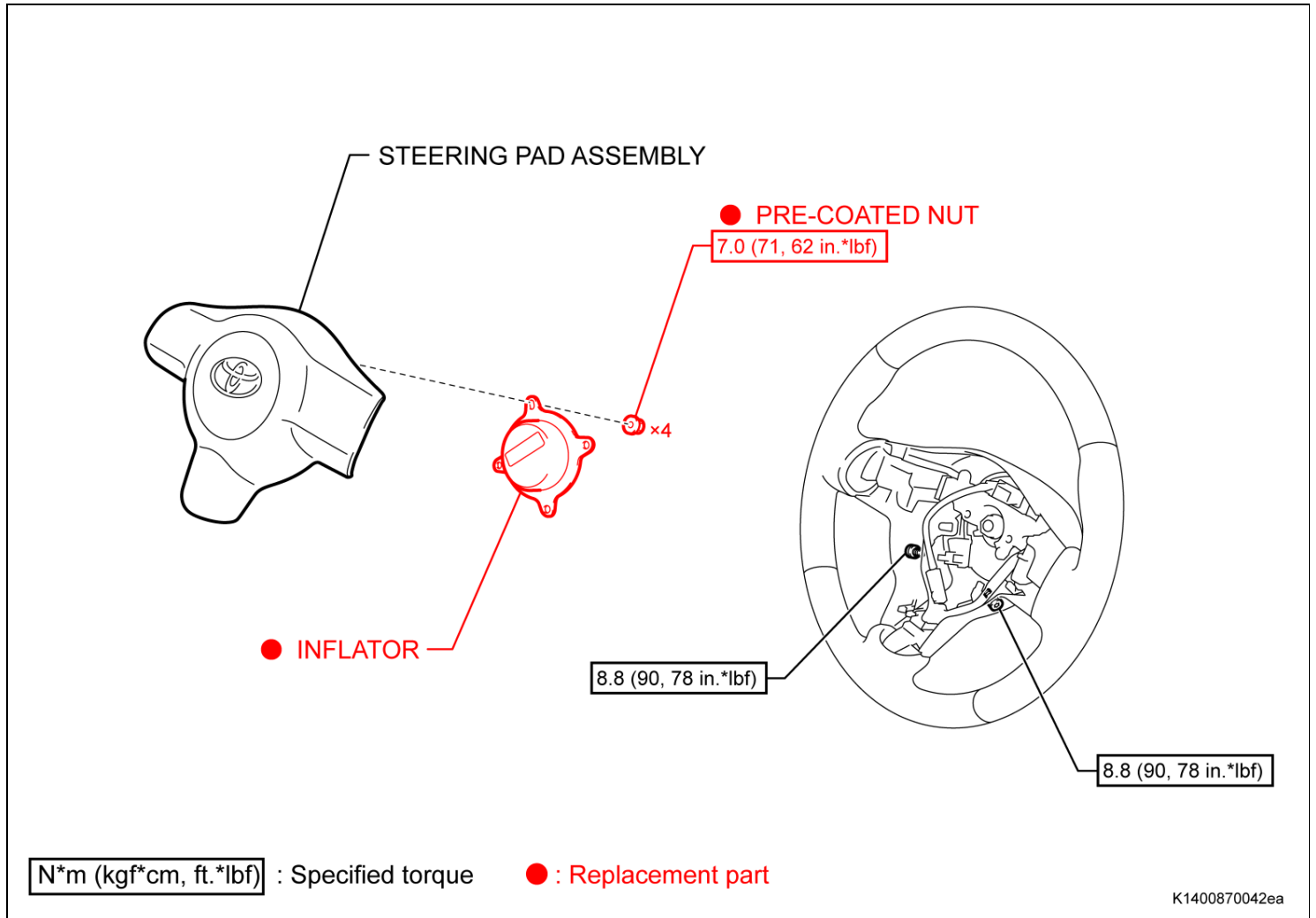
- Be sure to collect and account for all removed nuts/bolts to prevent them from landing in the airbag assembly.
- Any foreign objects in the airbag assembly may cause damage or injury if the airbag is activated.



5. WEAR PROTECTIVE EQUIPMENT

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

VI. COMPONENTS



VII. SRS SYSTEM HEALTH CHECK

The screenshot shows the Techstream software interface for SRS system health check. The interface is titled 'Confirm the Information and press Next'. It has two sections: 'Required Information' and 'Optional Information'. The 'Required Information' section includes fields for Division (TOYOTA), Model (< Select >), ModelYear, Engine, and Option. The 'Optional Information' section includes fields for VIN and Memo. The VIN field is highlighted with a red oval. At the bottom, there are buttons for Manual, Help, <Back, Next>, and Cancel.

1. PERFORM A HEALTH CHECK

- Confirm the Techstream is connected to the dealership's internet.
- 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.

- 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



**This campaign only covers the replacement of the driver's airbag inflator.
No other components in the SRS system are covered by this campaign.**

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

Monitor Status	DTC	Curr	Pend	Hist	Perm	SB	Calibration	Update

The image shows a screenshot of the Techstream software interface. It features a table with columns for 'Monitor Status', 'DTC', 'Curr', 'Pend', 'Hist', 'Perm', 'SB', 'Calibration', and 'Update'. The table is currently empty. Below the table, there are several icons: a person with a document (circled in red), a clock, a car with a checkmark, and a refresh button. The status bar at the bottom indicates 'Default User' and 'DLC 3'.

NOTE: If the VIN was not entered in ALL CAPS when Techstream was launched, an error will be displayed and there will be a prompt to reenter the VIN



Diagnostic Report

Vehicle Information

Mileage:

Repair Order:

Report

b) Enter the vehicle mileage and repair order information, then click the 'report' button.



- The VIN **MUST** be entered manually in ALL CAPS when launching the Techstream software, the VIN **WILL NOT** auto-populate due to vehicle age.
- A health check and diagnostic report with VIN **MUST** be performed within the last 36 hours and recorded by TMS. If the diagnostic report is not run, the healthcheck will not be recognized by TMS.
- 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

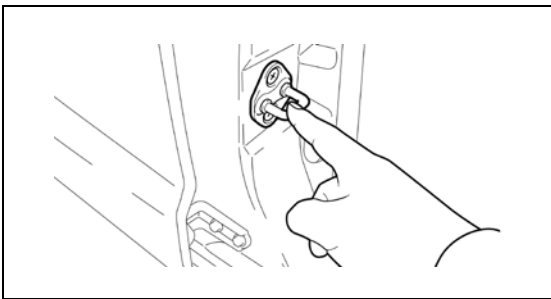
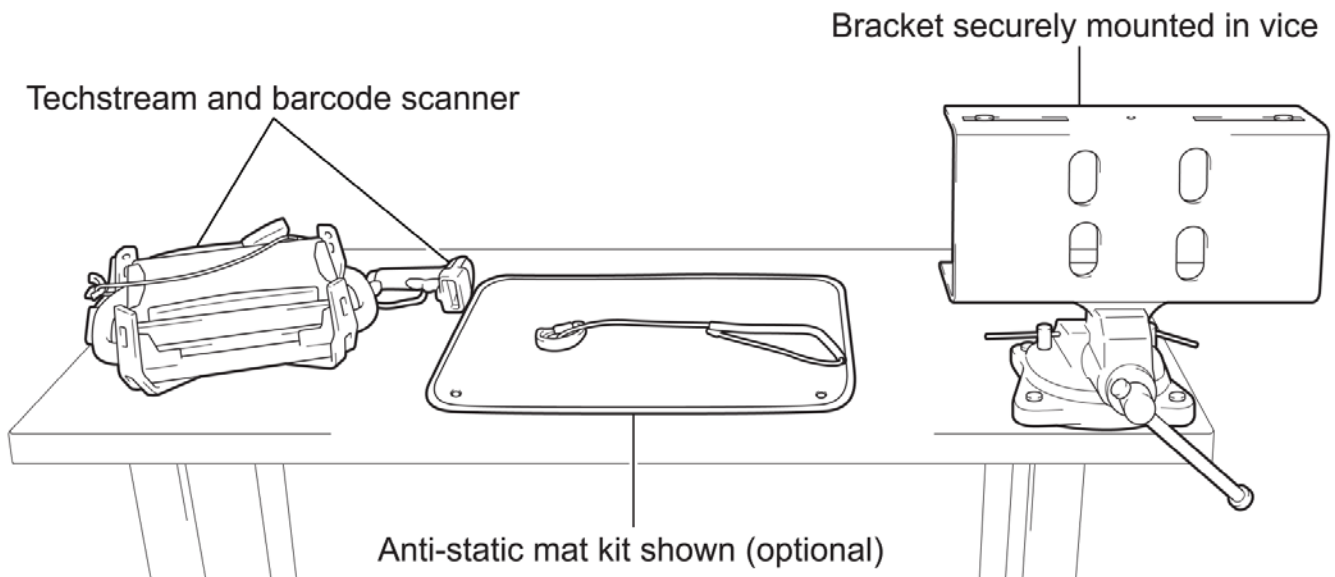
STOP

CRITICAL INFORMATION – READ THOROUGHLY

STOP

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.

IX. DRIVERS AIRBAG REMOVAL

1. DISCONNECT THE NEGATIVE BATTERY CABLE



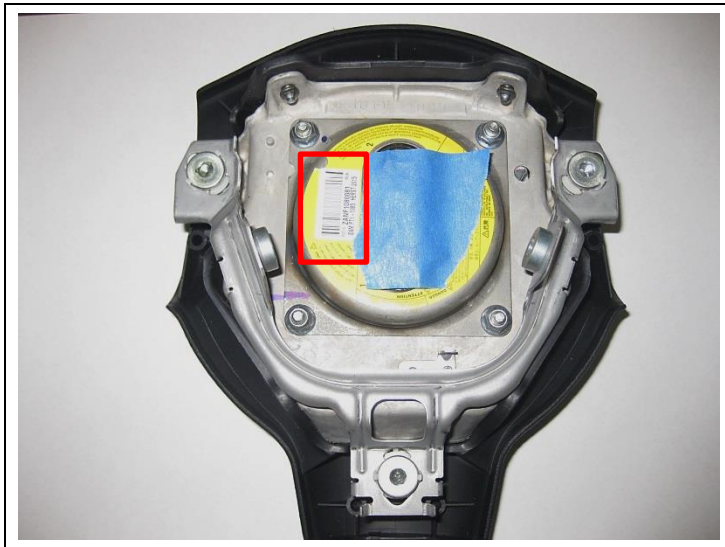
- Wait at least 90 seconds after disconnecting the cable from the negative battery terminal to prevent airbag and seat belt pre-tensioner deployment.
- Follow all precautions as outlined on TIS before servicing the SRS system.

2. REMOVE THE DRIVERS AIRBAG

a) Refer to TIS for instructions on airbag removal:

RAV4 [2004](#) [2005](#)

b) Use low pressure shop air to clean any debris around the inflator.



c) Place tape over the airbag connectors.

NOTE: DO NOT cover the inflator bar code.

X. RECORD AIRBAG AND INFLATOR SERIAL NUMBERS

1. LAUNCH THE SERIAL NUMBER RECORDING APPLICATION

[Video Supplement: Serial Number Recording](#)



- The AIRBAG ASSEMBLY, ORIGINAL INFLATOR, and NEW INFLATOR serial numbers MUST be recorded using the barcode scanner (provided at the launch of SSC D0F & 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 be sent to the scanning application site.
- d) You can also log into the scanning site via the URL below

Log into the website via the URL below

<https://takata-scan-app.imagespm.info/>

User ID: Dealer Code

First time login password: xxxxx

The screenshot displays the Toyota TIS Vehicle Inquiry interface. At the top, navigation tabs include Home, TIS, TAS, PRS, and QAT. The 'Vehicle Inquiry' tab is active. Below the navigation, there are tabs for Library, Diagnostics, Tech Assistance, and Vehicle Inquiry. The main content area is titled 'Vehicle Identification Number Search' and contains a search form with the VIN '1NX BR32E 000000000' entered. A red circle highlights the VIN input field, labeled 'a)'. Below the search form, the 'Vehicle Information' section displays details for a 2003 Toyota Corolla CE, including drive type, body type, engine family, transmission, date of first use, production date, plant code, and exterior/interior colors. The VIN '1NX -BR32E-000000000' is also listed here. Below this, there are tabs for Campaign, Service History, Warranty, DTC History, and Diagnostic Report. The 'Service Campaign' section shows a campaign description for a safety recall and a completion status of 'Not Completed'. A red circle highlights the 'Not Completed' status, labeled 'b)', and another red circle highlights the link 'Check applicability for VIN', labeled 'c)'. The footer of the page includes the copyright notice '© 2013 Toyota Motor Sales, Inc.' and links for Feedback, Privacy, and Legal.

Login

Complete all required (*) fields below.

*** User ID (enter your 5-digit dealer code, or 6-digit for Canadian dealers eg. Cnnnnn format):**

*** Password:**

Login

[Forgot Password?](#)

Technician Information

Please provide information below before searching for VIN.

Technician Name:

SPIN ID (12 digit code):

Search

a) Enter your name and SPIN ID into the site

Enter VIN

Enter the 17-digit Vehicle Identification Number to begin the search for this campaign.

VIN:

Mileage on Vehicle:

Search

b) Enter the VIN and vehicle mileage into the site

2. 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 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.

ORIGINAL Airbag Assembly Serial Number

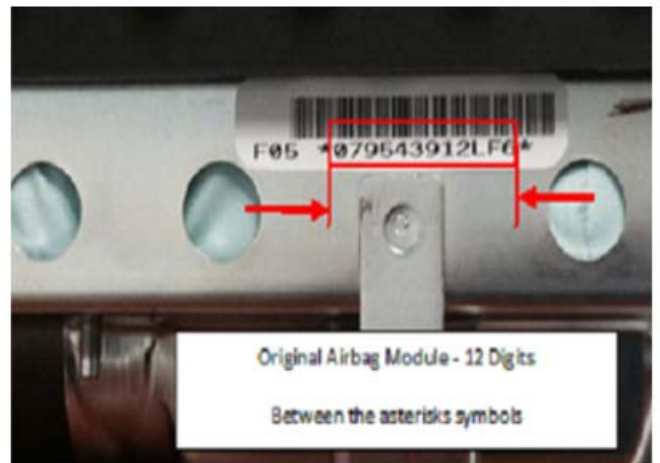
Scan or enter the **original** Airbag Assembly serial number into the website.

VIN:
Model / Campaign:

* Serial Number of *Original* Airbag Assembly:

* Re-confirm the Serial Number of *Original* Airbag Assembly:

Check if the airbag serial number is missing or not visible, or if installing a new airbag assembly



AIRBAG SERIAL NUMBER IS MISSING OR IS UNREADABLE

NOTE: Skip this section and jump to Section IX if the airbag assembly is scannable



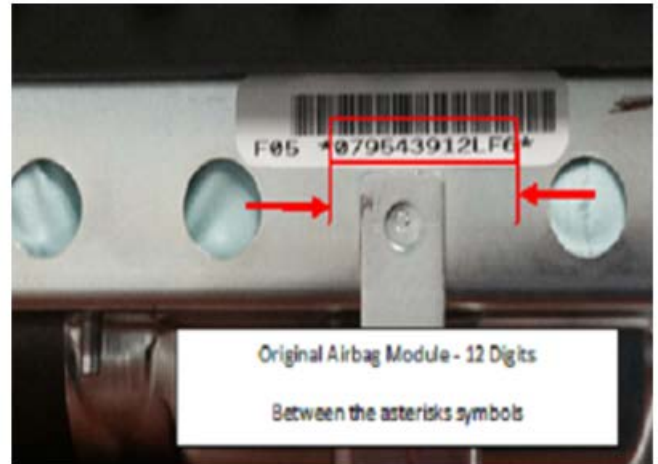
If the airbag serial number and barcode are not legible or are not present, check the box in the application indicating the serial number is not legible and contact your regional representative.

a) If the airbag serial number cannot be scanned or is not present check the box as shown below.

ORIGINAL Airbag Assembly Serial Number

Scan or enter the **original** Airbag Assembly serial number into the website.

VIN:
Model / Campaign:
* Serial Number of *Original* Airbag Assembly:
* Re-confirm the Serial Number of *Original* Airbag Assembly:
 Check if the airbag serial number is missing or not visible, or if installing a new airbag assembly
Search



Checking this box requires Air Bag Assembly replacement.

****Note** Contact your region in the event that you are unable to read the serial number.
DO NOT ATTEMPT TO INSTALL INFLATOR**

b) After the Region approves the Airbag Assembly replacement and the new part is received, scan the NEW airbag barcode in the Serial Number Recording Application.

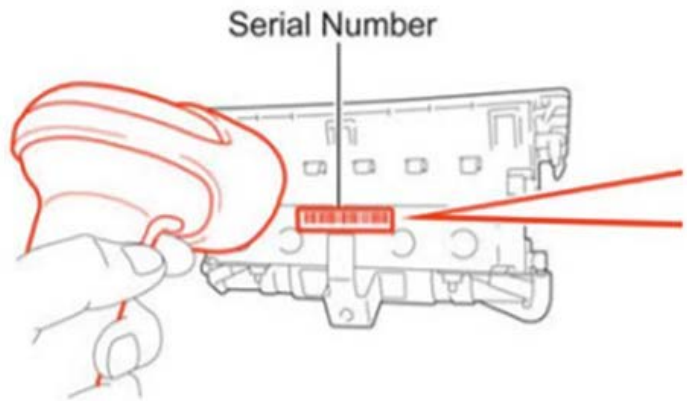
NEW Serial Number

Scan or enter the **new** Airbag Assembly Serial Number into the website.

VIN:

* Serial Number of New Airbag Assembly:

* Re-confirm the Serial Number of New Airbag Assembly:



The new **AIRBAG ASSEMBLY** serial number **MUST** be recorded prior to reinstallation to track the airbag assembly to the vehicle.

Skip to Section X If a new airbag assembly was installed instead of an inflator



**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-**



4. 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 QR code.

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.

ORIGINAL Inflator Serial Number

Scan or enter the **original** Inflator serial number into the website.

VIN: 2T1BR32E57C810829
 Model / Campaign: 2007 Corolla / E04

* Serial Number of **Original** Inflator:

* Re-confirm the Serial Number of **Original** Inflator:

Check if the inflator serial number is missing or not visible, OR if installing a new airbag assembly

Search



REPLACEMENT Inflator Serial Number

Scan or enter the **replacement** Inflator serial number into the website.

VIN: 2T1BR32E57C810829
 Model / Campaign: 2007 Corolla / E04

* Serial Number of **Replacement** Inflator:

* Re-confirm the Serial Number of **Replacement** Inflator:

Search



c) If the inflator serial number cannot be scanned or is not present check the box as shown below.

ORIGINAL Inflator Serial Number

Scan or enter the **original** Inflator serial number into the website.

VIN: 2T1BR32E57C810829
Model / Campaign: 2007 Corolla / E04

* Serial Number of *Original* Inflator:

* Re-confirm the Serial Number of *Original* Inflator:

Check if the inflator serial number is missing or not visible. OR if installing a new airbag assembly



Checking this box requires Air Bag Assembly replacement.

****Note** Contact your region in the event that you are unable to read the serial number.**

DO NOT ATTEMPT TO INSTALL INFLATOR

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:

- 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.

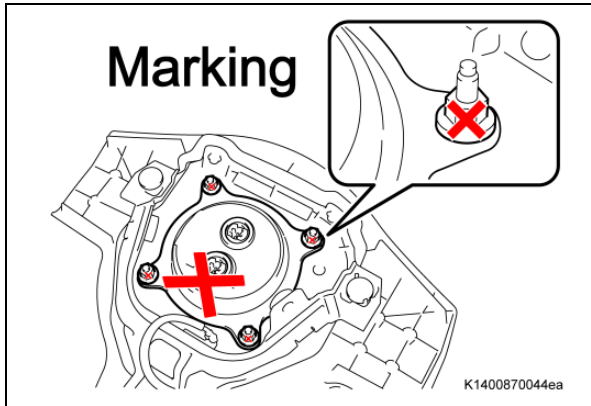
Step e)

Takata Scan App (TEST v2) Final Results

You can [Print Screen](#) or [Search Another VIN](#).

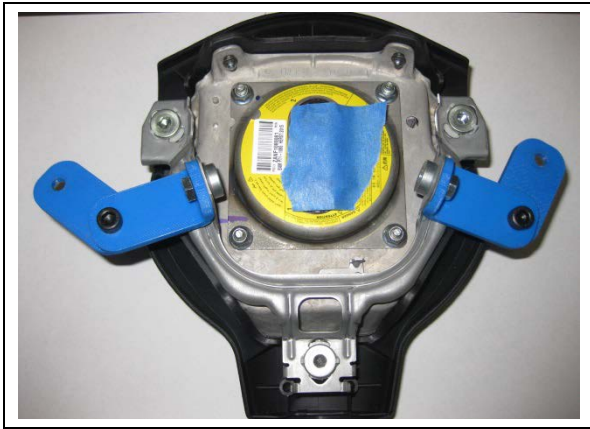
Results:	Inflator Replacement Required
Warranty Authorization Number:	77515K46 <small>This number is required for the warranty claim. Print and save this screen for your records</small>
VIN:	2T1BR32E57C810829
Vehicle:	2007 Corolla
Campaign:	E04
Original Airbag Serial:	123456789K12
Replacement Airbag Serial:	
Original Inflator Serial:	W0123456789
Replacement Inflator Serial:	W0123456789
Scan Date:	12/22/2020 08:47AM (mm/dd/yyyy)

XI. INFLATOR REPLACEMENT



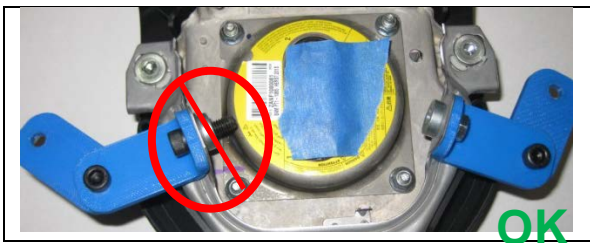
3. MOUNT THE AIRBAG ONTO THE MOUNTING BRACKET

- a) Mark the following parts so they will not be reused:
- The inflator
 - The 4 mounting nuts

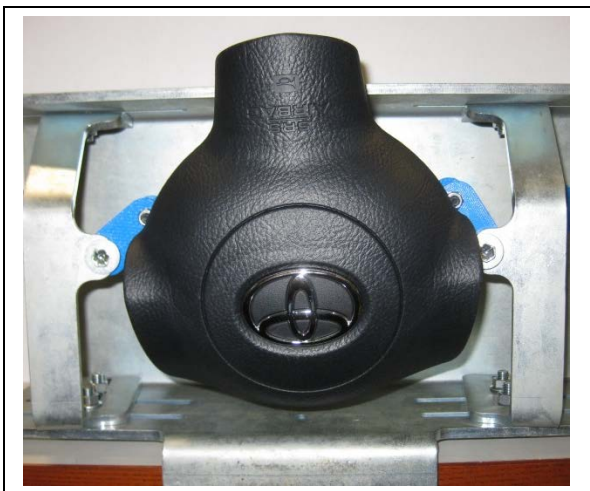


- b) Attach the 2 mounting bars to the airbag as shown.

NOTE: The color of the brackets may be different.



NOTE: Ensure that the bolts that attach the bracket to the airbag DO NOT protrude past the threaded portion of the horn mounting ring.





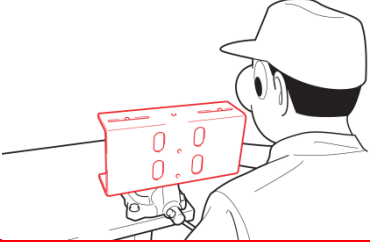
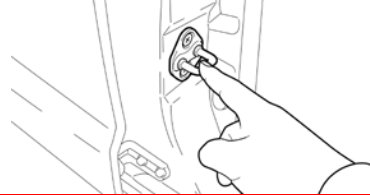
- c) Install the mounting bars to the support bars with the supplied hardware.

NOTE: The airbag will be mounted upside down in the mounting fixture.

- d) Position the airbag so that all four nuts can be removed through the access holes.

NOTE: The inflator nuts may need to be accessed at a slight angle through the openings.

- e) Tighten the nuts holding the support bars to the mounting bracket and the bolt and nut.
- 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.

	CRITICAL INFORMATION – READ THOROUGHLY	
	<p>ALWAYS keep as much of your body as possible in front of the bracket when working on the airbag assembly.</p>	
	<p>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.</p>	

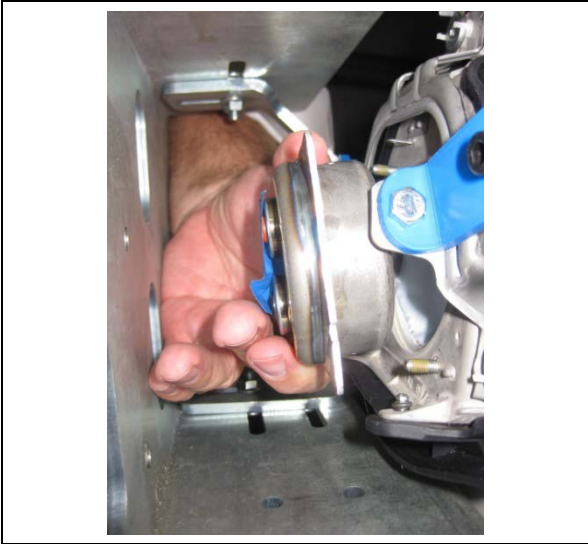


4. REMOVE THE SELF LOCKING NUTS

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

NOTE:

- **DO NOT** use power tools.

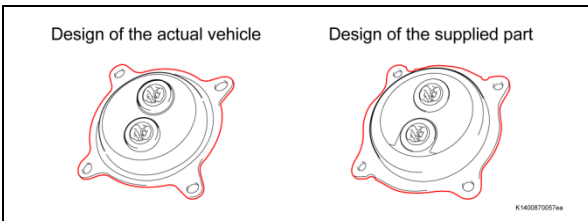


5. REMOVE THE INFLATOR

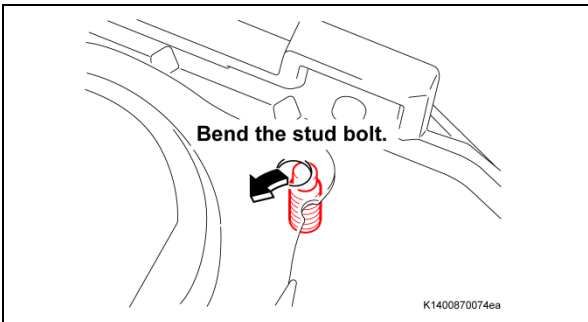
- a) Pull the inflator straight back from the airbag assembly and place it on a safe work surface.

NOTE: You may need to slightly tilt the inflator to clear the horn ring.

- b) Place the old inflator in the box that the new inflator came in and return it to the parts department.



The design differences from the original inflator and the replacement inflator.



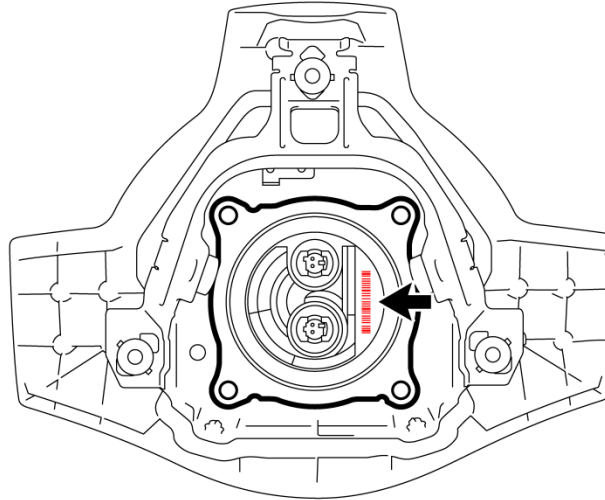
6. INSTALL THE NEW INFLATOR

- a) Check that all 4 studs are straight.
- b) Straighten any studs that are bent.

- c) Carefully guide the new inflator into the airbag assembly.

NOTE: Ensure that the bar code is facing the correct way.

- d) Ensure that the inflator is fully seated in the airbag.



Ensure that the bar code is facing the correct way.



7. TORQUE THE NEW RETAINING NUTS

- a) Install and tighten the **NEW** nuts evenly in two steps in an X pattern. Use a socket driver or torque wrench to tighten the nuts.

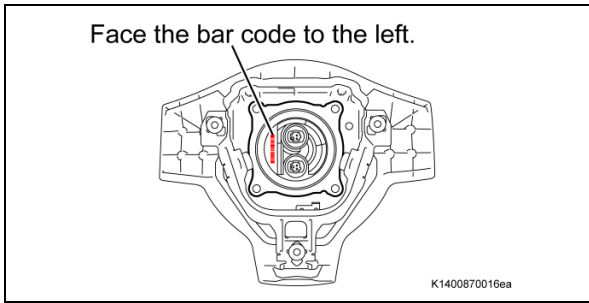
Torque: 7.0 N*M (71 kgf*cm, 62 in. lbf)



- 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 over torqueing.

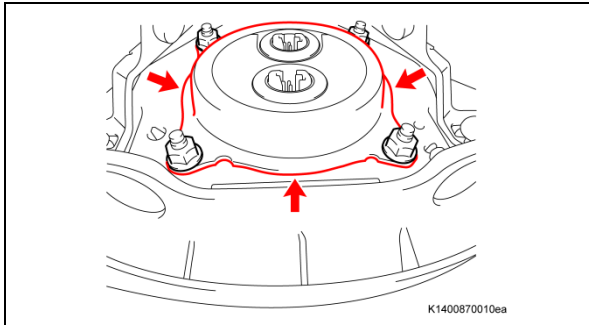
8. REMOVE THE AIRBAG ASSEMBLY FROM THE BRACKET

- a) Remove the airbag assembly from the fixture, and place the assembly on a cloth or the anti-static mat.
- b) Remove the bracket from the airbag.

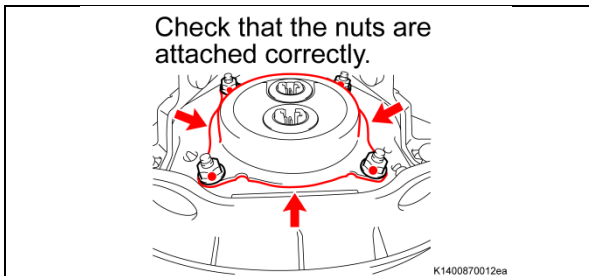


9. INSPECT THE AIRBAG BEFORE INSTALLATION

- a) Confirm that the inflator is oriented correctly.
 - Bar code to the left.



- b) The inflator is fully seated.



- c) Confirm that the 4 **NEW** nuts are installed and tight.

XII. FRONT PASSENGER AIRBAG ASSEMBLY INSTALLATION

1. REINSTALL THE DRIVERS AIRBAG

- a) Refer to TIS for instructions on airbag installation:

RAV4 [2004](#) [2005](#)

2. RECONNECT THE NEGATIVE BATTERY CABLE

3. PERFORM A HEALTH CHECK AND DIAGNOSTIC REPORT

4. CHECK HORN OPERATION

◀ 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
- If you have any questions regarding this update, please contact your regional representative.

XIII. APPENDIX

A. SCANNER SET-UP

Determine which scanner you need to update the Datalogic QD 2300 was provided at the launch of D0F and emits a red beam when the scanner is used.

The Datalogic 2430 was provided at the launch of F0J and emits a blue beam when the scanner is used.

(Datalogic QD 2300 provided at the launch of D0F)

The scanner will need to have an application added for it to read the bar code on driver's airbag. Perform the following steps to load the application on to the scanner.

NOTE: This application only needs to be loaded once.

- a) Scanning the image below to enable code 93.



Enable Code 93

- b) Scan the image below for enable any length for code 93.



Code 93 - Any Length

- c) The scanner is now ready to scan the airbag bar codes.

Additional information can be found in the Datalogic Product Reference Guide. The Datalogic website is: http://www.datalogic.com/eng/support-services/automatic-data-capture/downloads/manuals-ma-3.html?search_prod=166

(Datalogic 2430 provided at the launch of F0J)

The scanner will need to have an application added for it to read the bar code on driver's airbag. Perform the following steps to load the application on to the scanner.

NOTE: This application only needs to be loaded once.

- a) Enter the programming mode by scanning the image below.



Enter/Exit Programming Mode

- b) Scan the image below for Code 93.



Code 93 = Enable

- c) Scan the image below to exit the programming mode.

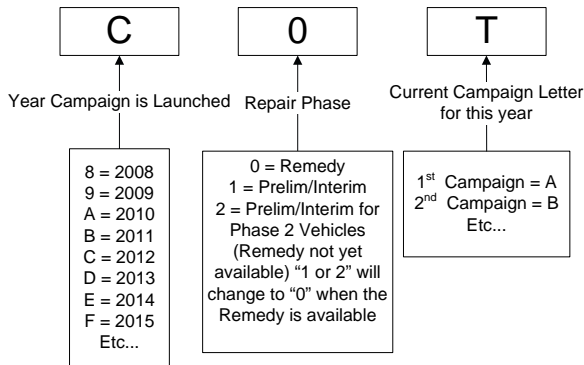


Enter/Exit Programming Mode

- d) The scanner is now ready to scan the airbag bar codes.

Additional information can be found in the Datalogic Product Reference Guide. The Datalogic website is: http://www.datalogic.com/eng/support-services/automatic-data-capture/downloads/manuals-ma-3.html?search_prod=612

B. CAMPAIGN DESIGNATION DECODER



C. 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
- Included in the parts box
- On the laminated aid that was provided at the launch of the campaign