IMPORTANT UPDATE

TECHNICAL INSTRUCTIONS

FOR

SAFETY RECALL DSF and E04

(Note: These technical instructions may be used on any vehicle covered under DSF or E04)

FRONT PASSENGER AIRBAG INFLATOR MODULE

CERTAIN 2003 – 2006 MODEL YEAR TUNDRA

Updated 7-17-18

Update 07-17-18
- **The Technician Certification Requirements have changed**

Update 4-18-18
- **The parts section has been updated.**

Update 7-25-17
- **Removed Non-Desiccated Inflator Part Numbers**

Update 2-9-17
- **Part number update for 2003 – 2004 MY.**

Update 8-8-16
- **Additional part number added for the 2005 – 2006 MY vehicles.**

Update 11-12-15
- **The TI has been updated to include recall DSF.**

Update 6-15-15
- **The Corolla now has its own instructions and the parts section has been updated.**

Update 5-12-15
- **E04 has been expanded to include 2005 and 2006 MY Tundra vehicles.**
- **The airbag/inflator scanning application screen shots have been updated.**

Update 2-24-15
- **DISCONTINUED: Passenger Airbag disablement has been discontinued.**

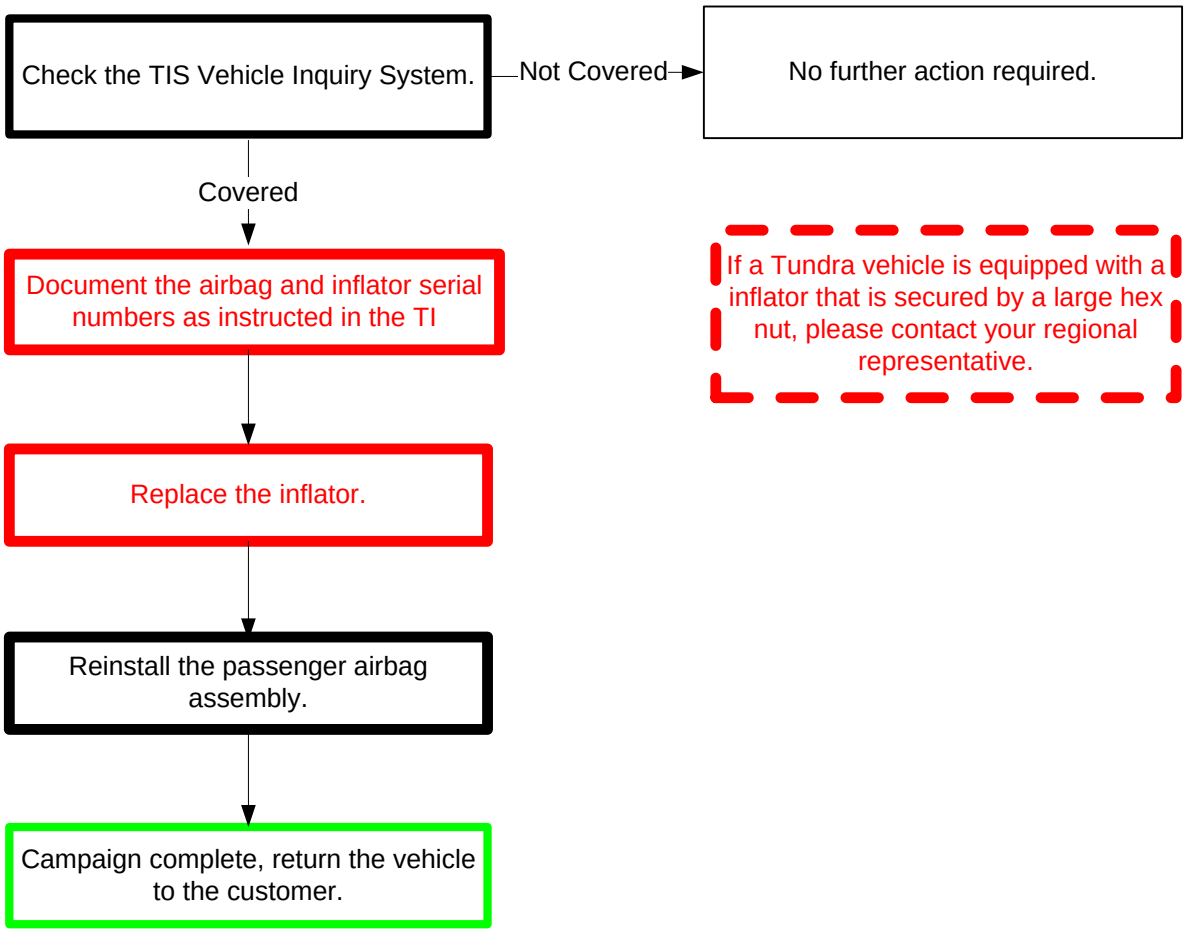
All dealership technicians performing this recall are required to successfully complete the most current version of the E-Learning course "Safety Recall and Service Campaign Essentials". To ensure that all vehicles have the repair performed correctly; technicians performing this recall repair are required 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**

NOTE: The videos in this document were created for D0F/DSF, but are used in this document to help supplement the technical instructions.

I. OPERATION FLOW CHART

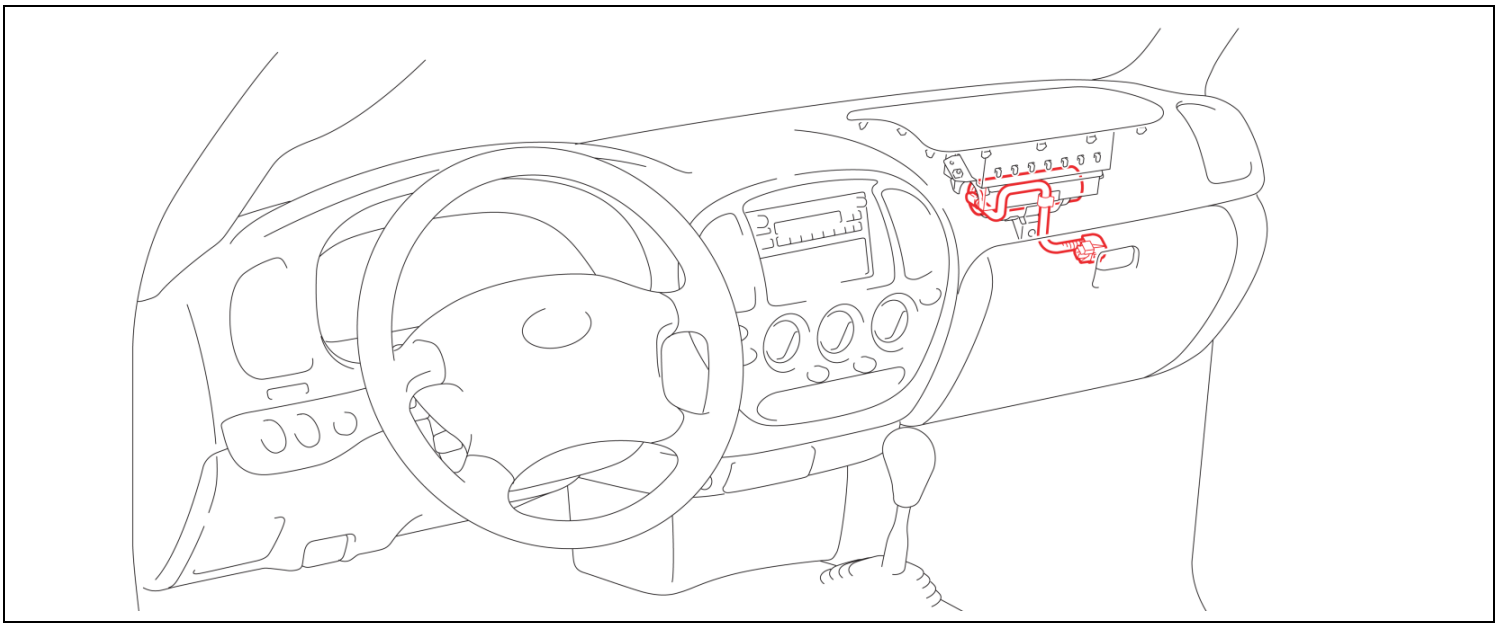
The flow chart is for reference only. *DO NOT* use it in place of the full technical instructions. Follow *ALL* steps as outlined in the full technical instructions to confirm the campaign is completed correctly.



STOP Passenger airbag disablement has been **DISCONTINUED** you must repair the vehicle. STOP

II. BACKGROUND

The subject vehicles are equipped with front passenger airbag assemblies. When located in areas with consistently high absolute humidity, the front passenger airbag inflator could be susceptible to rupture in a crash. An inflator rupture may result in metal fragments striking and potentially seriously injuring the vehicle occupants. The cause of the potential ruptured inflators and influence of high absolute humidity are under investigation.



III. IDENTIFICATION OF AFFECTED VEHICLES

A. INVOLVED 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 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 to: The 48 States in the Continental U.S Only

Part Number	Part Description	Quantity
04006-0490C	2003-2004 MY, Instrument Panel Airbag Inflator Kit*	1

*The kit above includes the following parts.

Inflator	1
Self Locking Nut	4
Electro Tap	1

Part Number	Part Description	Quantity
04006-0620C	2005-2006 MY, Instrument Panel Airbag Inflator Kit*	1

*The kit above includes the following parts.

Inflator	1
Self Locking Nut	4
Electro Tap	1

Applicable to: Alaska, Hawaii and USTT Locations

Part Number	Part Description	Quantity
04006-0490C	2002-2004 MY, Instrument Panel Airbag Inflator Kit*	1

*The kit above includes the following parts.

Inflator	1
Self Locking Nut	4
Electro Tap	1

Part Number	Part Description	Quantity
04006-0620C	2005-2006 MY, Instrument Panel Airbag Inflator Kit*	1

*The kit above includes the following parts.

Inflator	1
Self Locking Nut	4
Electro Tap	1

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	Location	Part Number	Part Description	Qty
Tundra	2003-2004	48 States in Continental U.S.	04003-2810C	INFLATOR ASSY KIT, INSTR PNL AIRBAG	1
		USTT, Hawaii & AK	04003-1110C		
	2005-2006	48 States in Continental U.S.	04004-7520C		
		USTT, Hawaii & AK	04004-7510C		

Model	Model Year	Part Number	Part Description
Tundra	2003-2004	73970-0C020-B0 73970-0C020-B1 73970-0C020-E0	AIR BAG ASSY, INSTR PNL PASS
	2005-2006	73970-0C021-B0 73970-0C021-B1	

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.

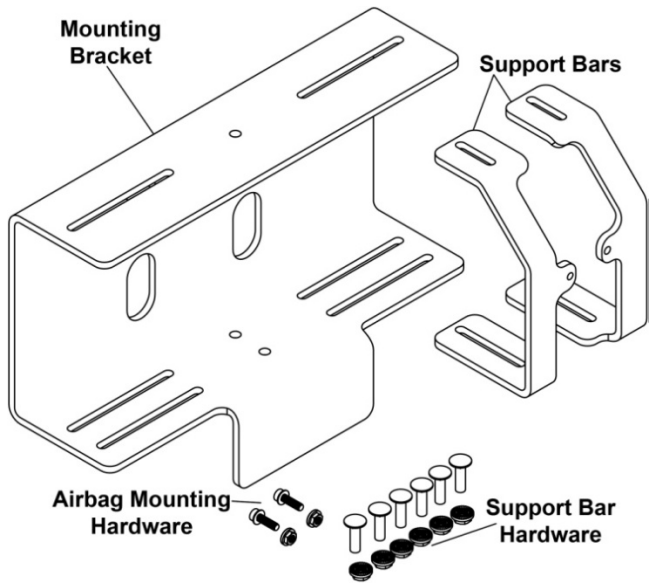
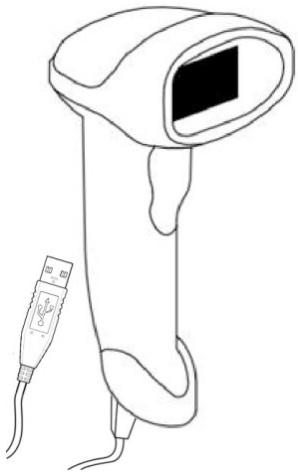
A. TOOLS & EQUIPMENT

- Standard hand tools
- Molding remover set
- Torque wrench
- Techstream
- Electrical Tape
- Zip Tie

***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 where previously provided to the dealership for campaign D0F and will be used for campaign E04. These tools are required when performing this repair.

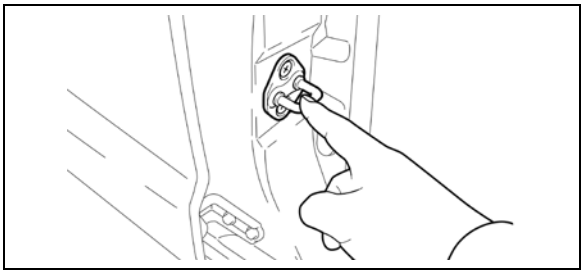
Image	Name	Quantity
	Airbag Mounting Bracket & hardware	1
	Barcode Scanner	1

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

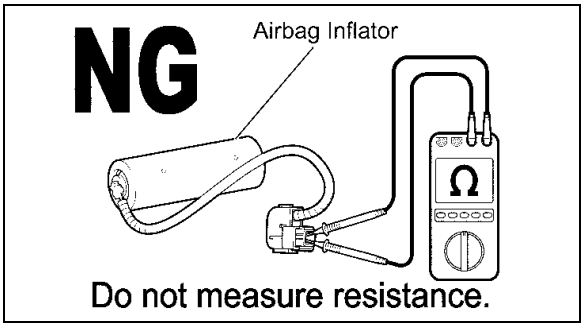
CRITICAL INFORMATION – READ THOROUGHLY

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.



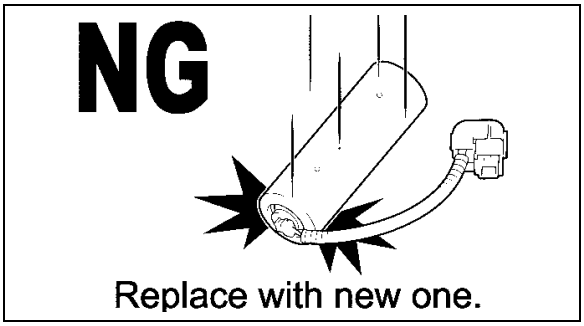
1. ELIMINATE STATIC ELECTRICITY

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.



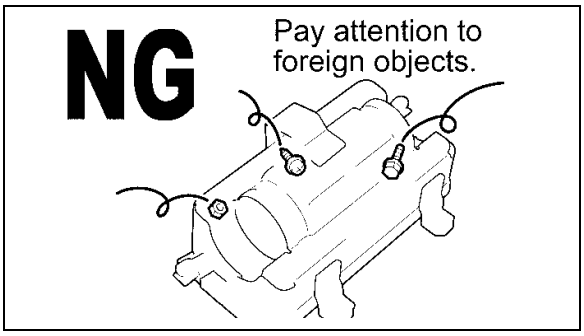
2. DO NOT MEASURE RESISTANCE

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



3. HANDLE THE AIRBAG CAREFULLY

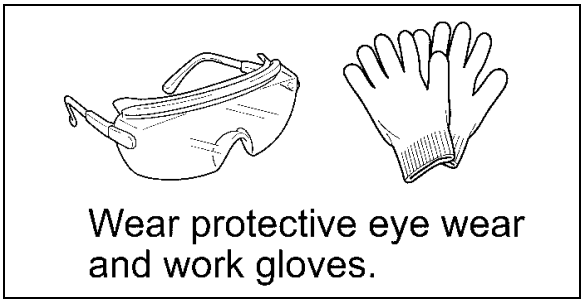
a) If an inflator is dropped, replace it with a ***NEW*** inflator.



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.

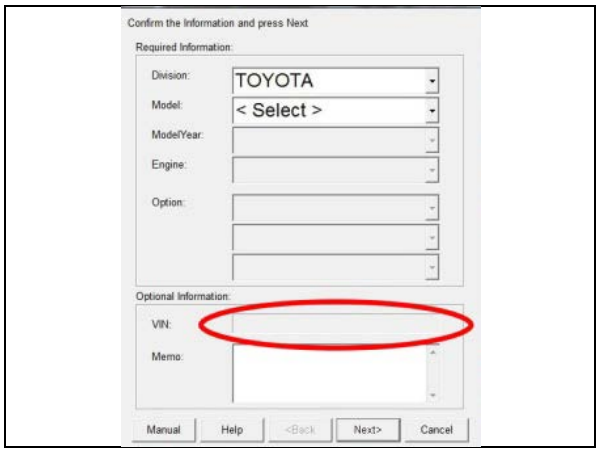
b) Any foreign objects in the airbag assembly may cause damage or injury if the airbag is activated.



5. WEAR PROTECTIVE EQUIPMENT

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

VI. 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.

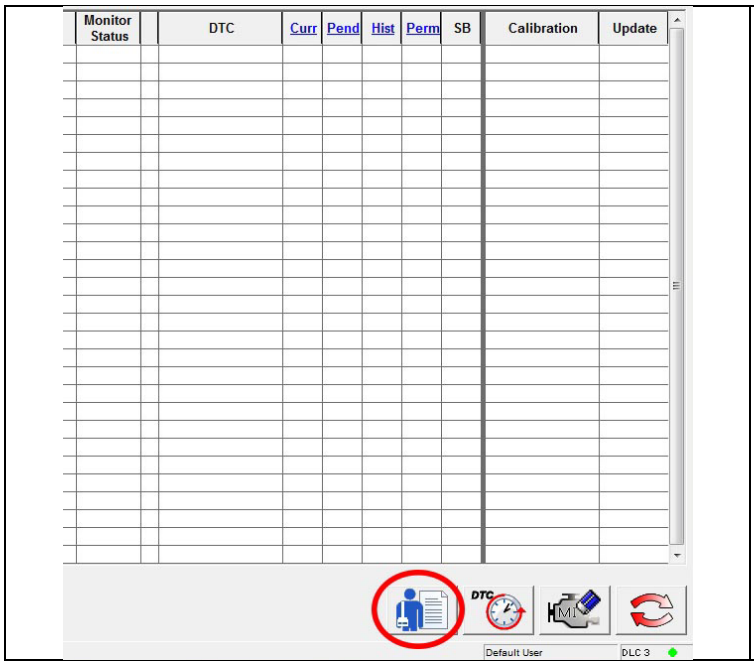
NOTE: All letters of the VIN *MUST* be entered in ALL CAPS, or the VIN will need to be reentered when running the diagnostic report.

c) Perform a health check.

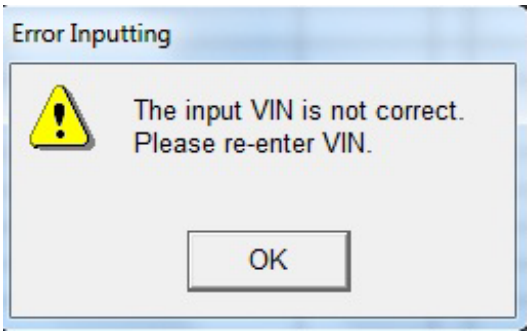
Note: The VIN may auto populate on the later model year vehicles, if this happens DO NOT change the VIN.

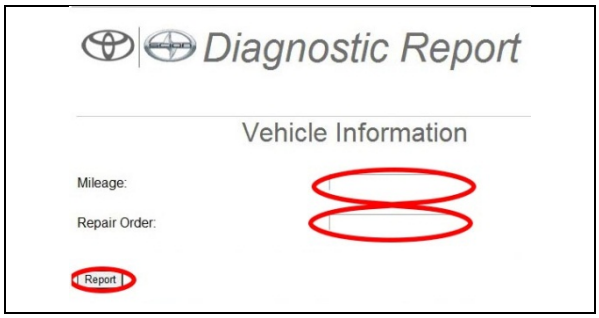
2. RUN A DIAGNOSTIC REPORT

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



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





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

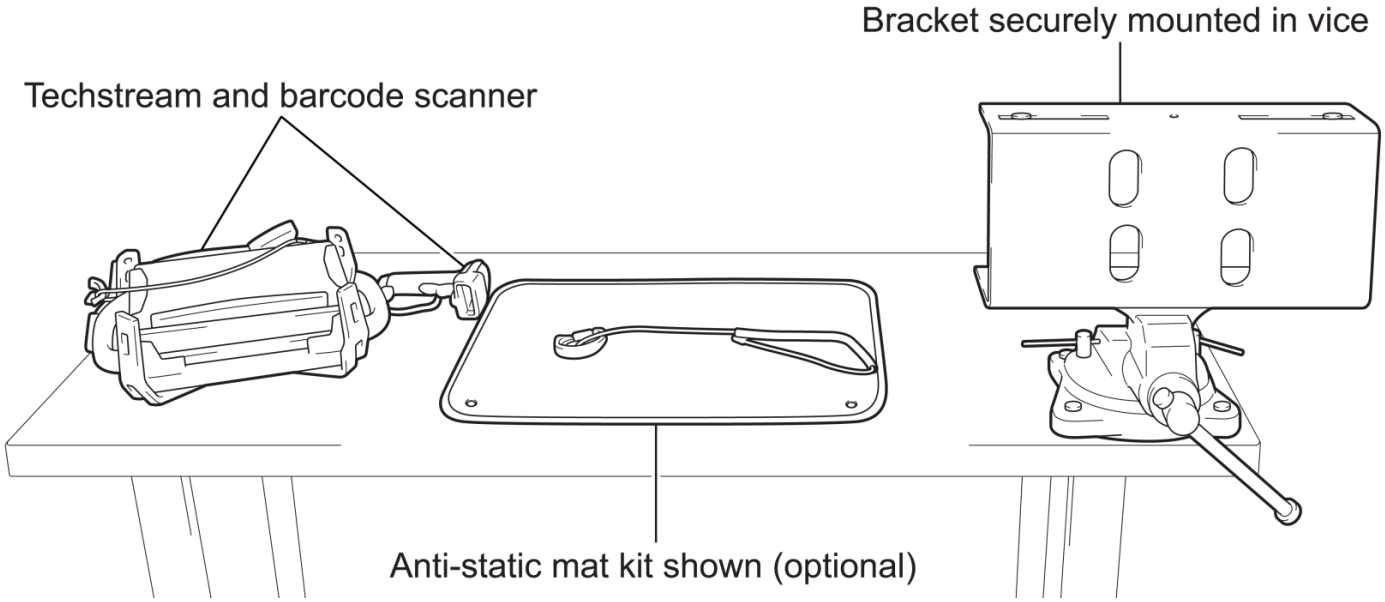
- **The VIN MAY NEED to be entered manually in ALL CAPS when launching the Techstream software. The VIN *MAY NOT* auto-populate on vehicles prior to the 2006 MY.**
- **A health check and diagnostic report with VIN *MUST* be performed within the last 36 hours and recorded by TMS. If the diagnostic report is not run, the healthcheck will not be recognized by TMS.**
- **The serial number checker application will be disabled and the inspection cannot be completed if a health check and diagnostic report is not performed and recorded by TMS.**

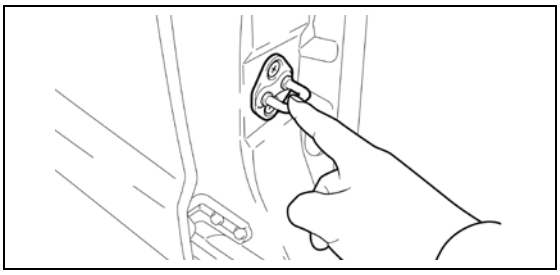
VII. WORK AREA PREPARATION

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.

VIII. FRONT PASSENGER AIRBAG ASSEMBLY REMOVAL

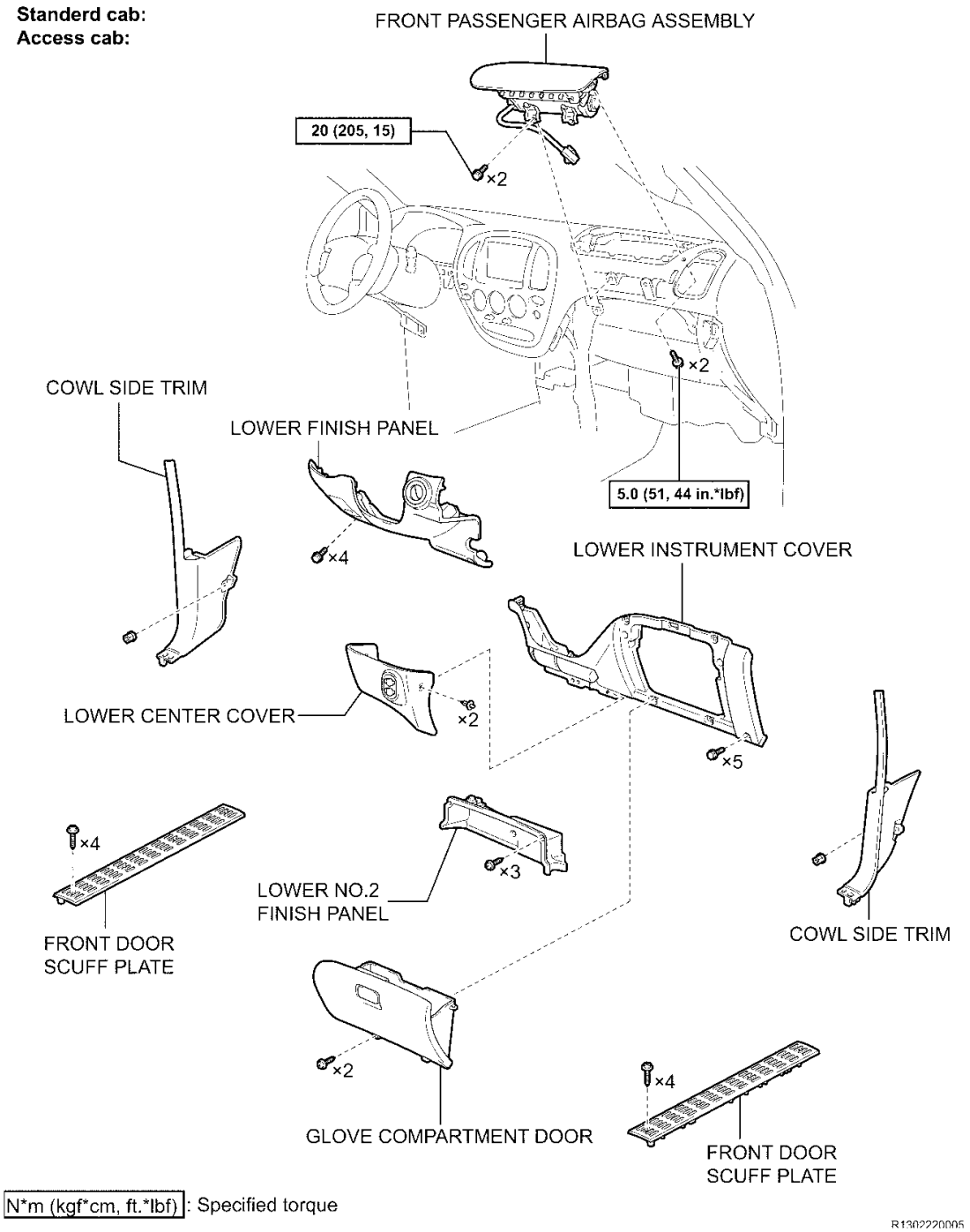
1. DISCONNECT THE NEGATIVE BATTERY CABLE

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

2. REMOVE THE PASSENGER AIRBAG ASSEMBLY

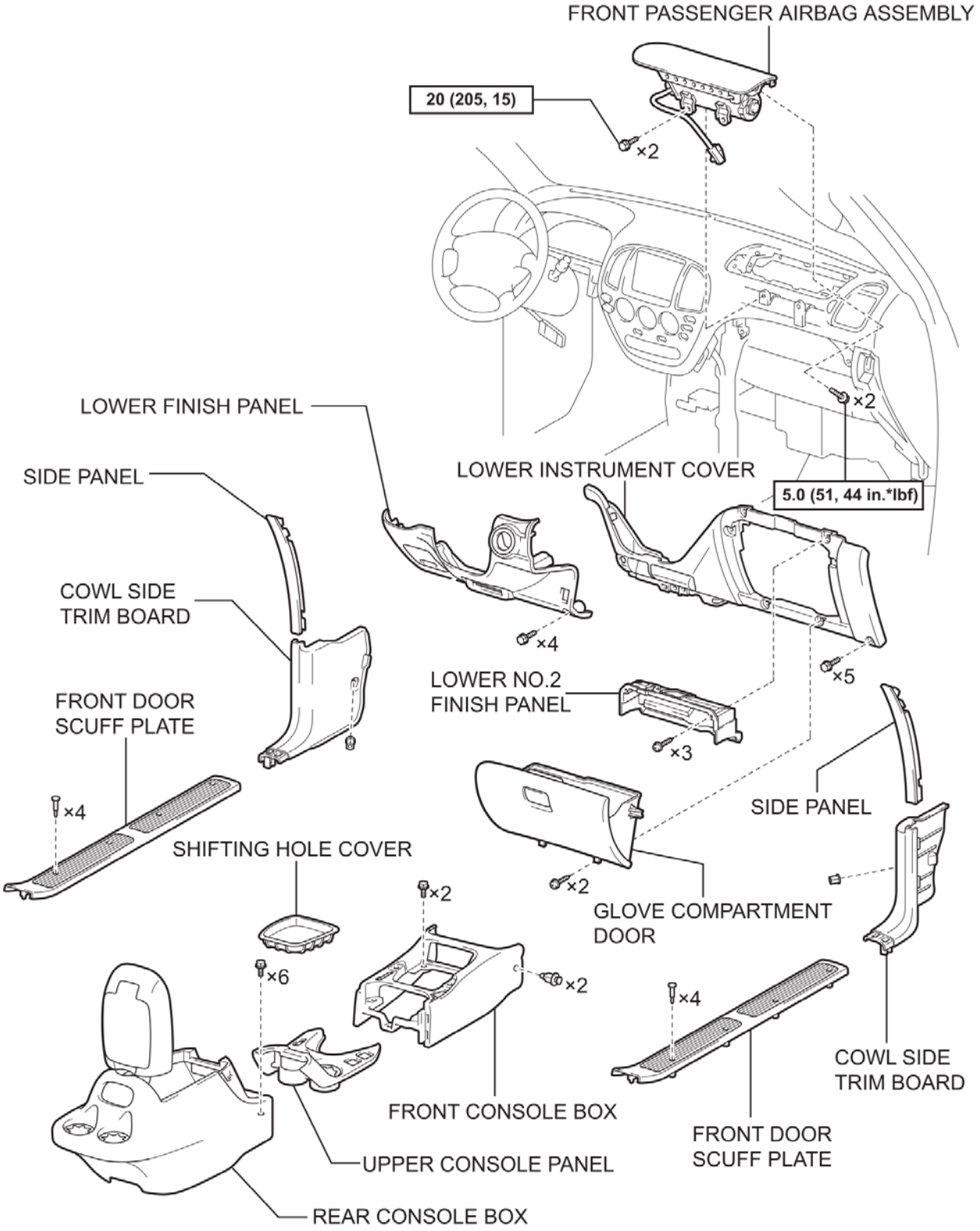
a) Refer to TIS for instructions on airbag removal: 2002-2005MY 2006MY

Tundra Standard and Access Cab



Tundra Double Cab

Double cab:



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

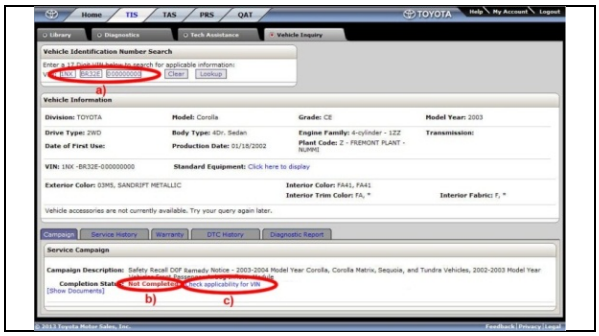
R1302220006

3. LAUNCH THE SERIAL NUMBER RECORDING APPLICATION

[Video Supplement: Serial Number Recording]

Note: The Serial Number Recording Application for E04 is the same application used for DSF.

- **The *AIRBAG ASSEMBLY, ORIGNAL 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.**



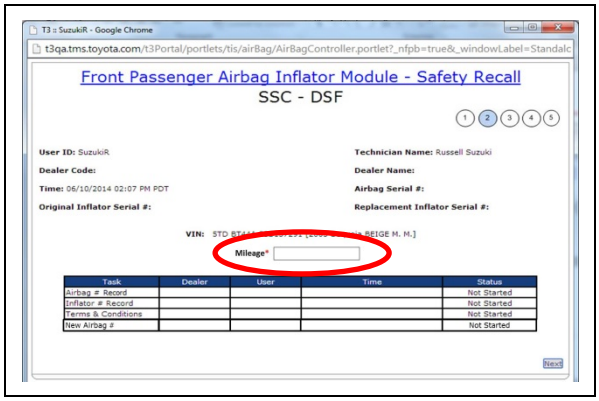
a) Log in to TIS and input the VIN of the vehicle in the Vehicle Inquiry tab.

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.

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

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



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 campaign again.**

4. 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 originally 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. 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:

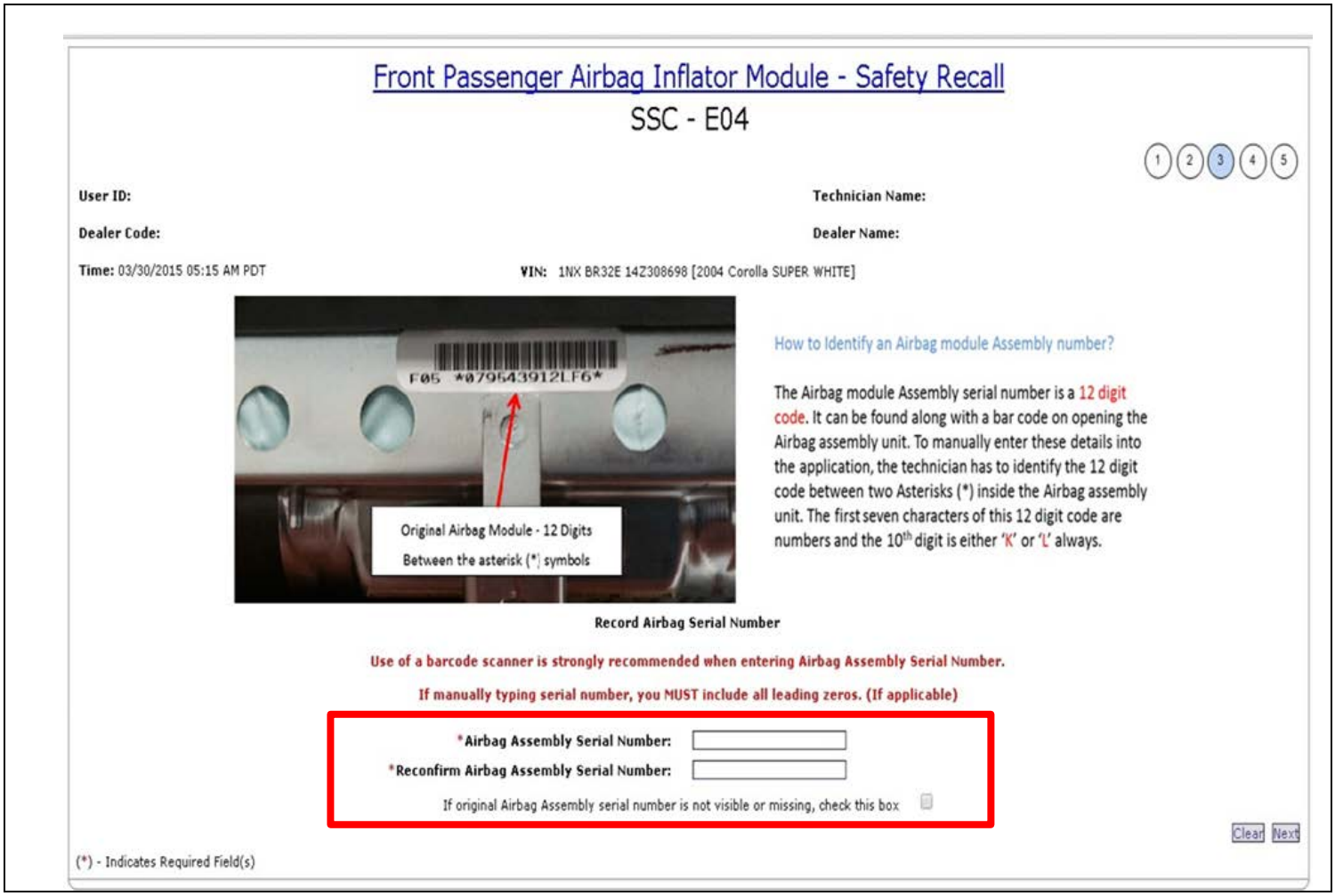
- **If both serial numbers that are entered do not match, confirm and reenter.**
- **If the serial number barcode will not scan, it can be entered manually.**

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

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



Front Passenger Airbag Inflator Module - Safety Recall

SSC - E04

1 2 3 4 5

User ID: Technician Name:

Dealer Code: Dealer Name:

Time: 03/30/2015 05:15 AM PDT VIN: 1NX BR32E 14Z308698 [2004 Corolla SUPER WHITE]

How to Identify an Airbag module Assembly number?

The Airbag module Assembly serial number is a 12 digit code. It can be found along with a bar code on opening the Airbag assembly unit. To manually enter these details into the application, the technician has to identify the 12 digit code between two Asterisks (*) inside the Airbag assembly unit. The first seven characters of this 12 digit code are numbers and the 10th digit is either 'K' or 'L' always.

Record Airbag Serial Number

Use of a barcode scanner is strongly recommended when entering Airbag Assembly Serial Number.

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

*Airbag Assembly Serial Number:

*Reconfirm Airbag Assembly Serial Number:

If original Airbag Assembly serial number is not visible or missing, check this box

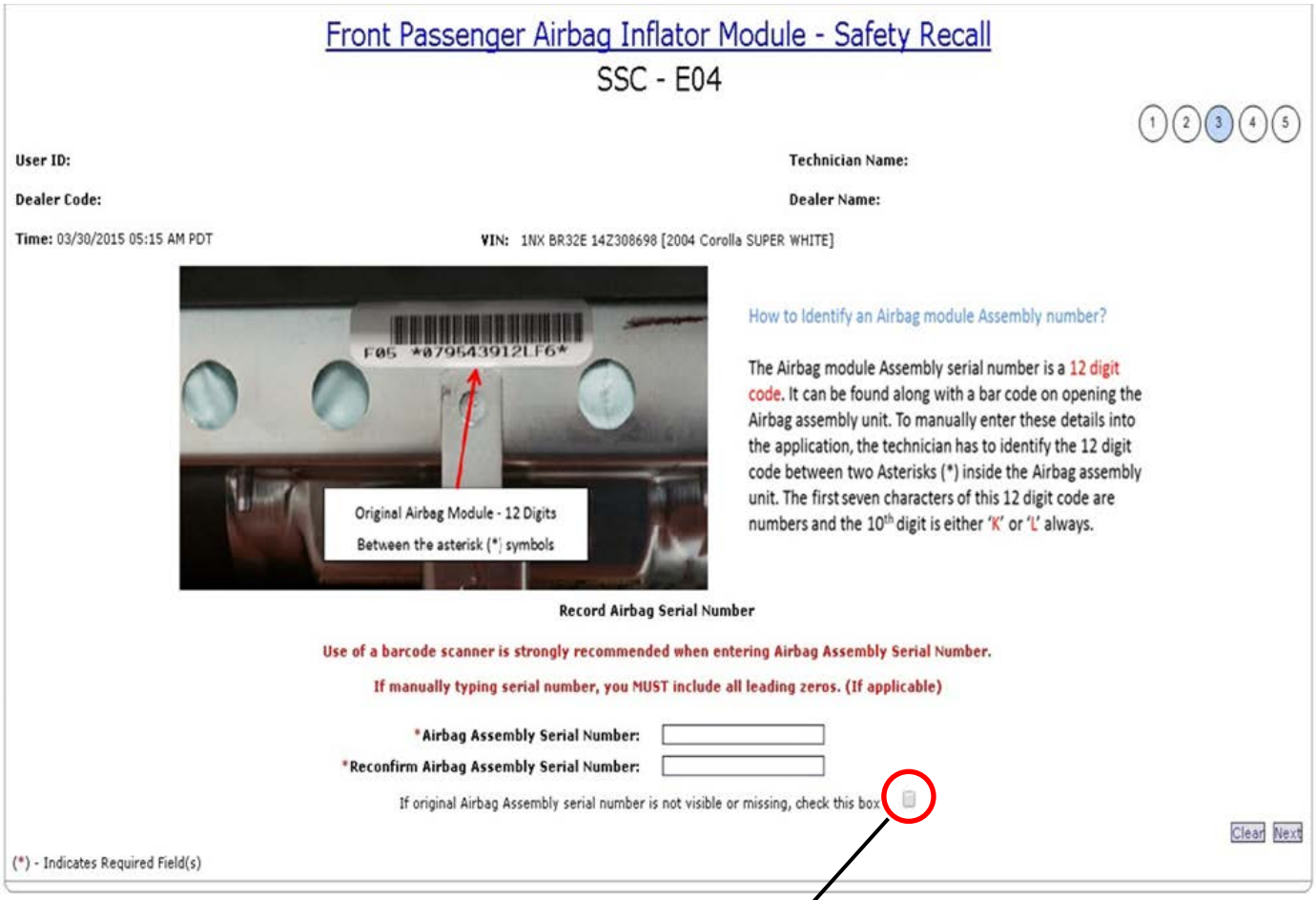
Clear Next

(*) - Indicates Required Field(s)

AIRBAG SERIAL NUMBER IS MISSING OR CANNOT BE SCANNED

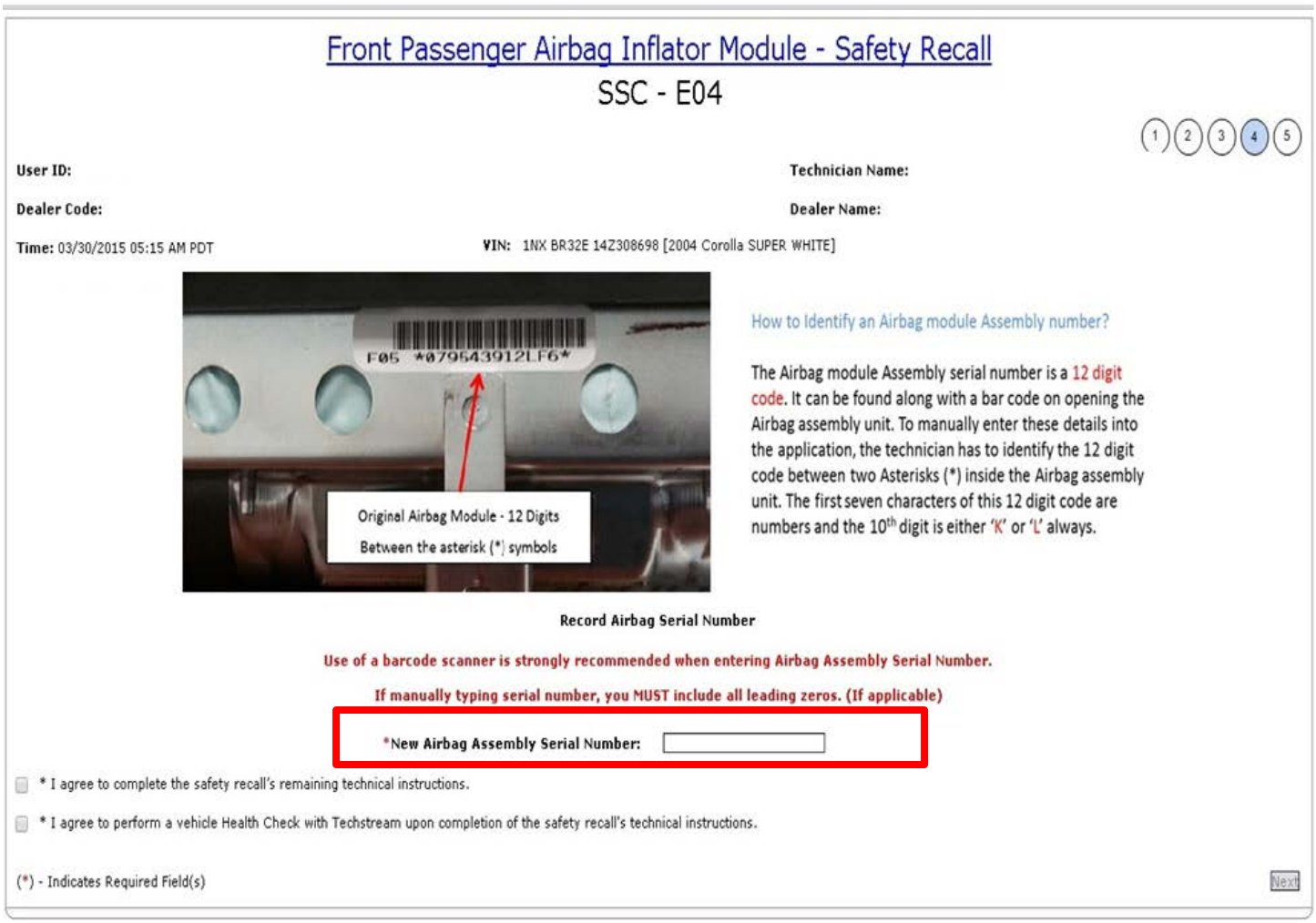
If the airbag barcode cannot be scanned or is not present, check the box in the application indicating the barcode is not legible and contact your regional representative to replace the airbag assembly.

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



Checking this box requires Airbag 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.



STOP

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

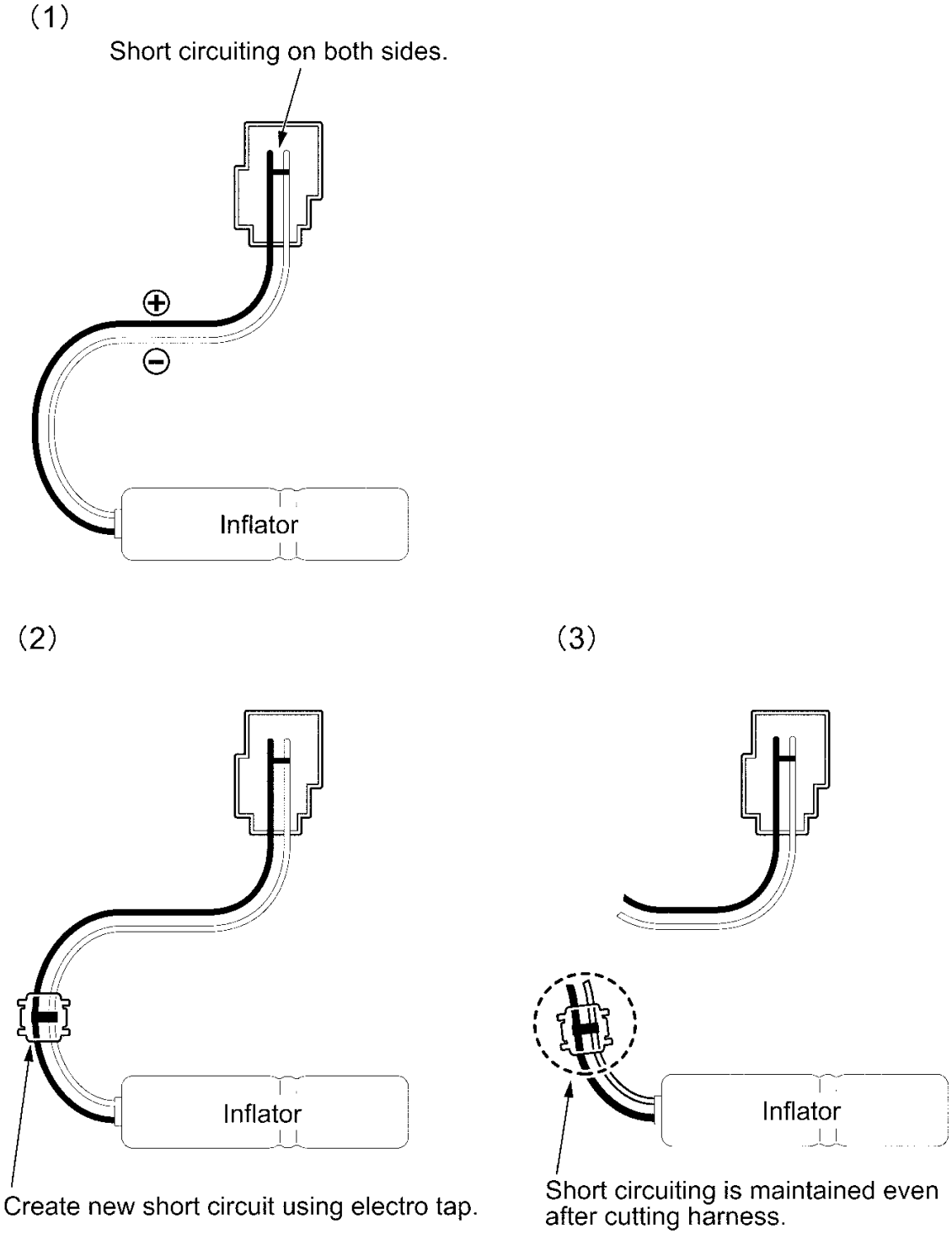
IX. INFLATOR REPLACEMENT

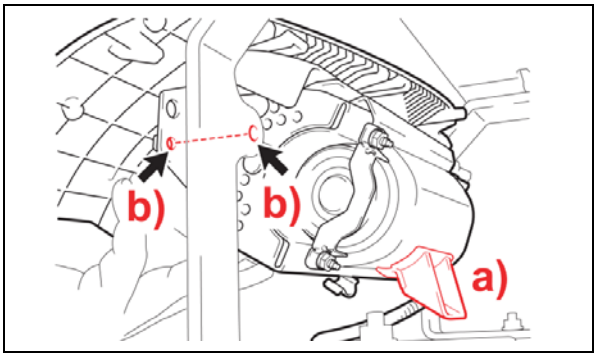
Video Supplement: Inflator Replacement

Note: The videos are the same videos as DSF and are intended to supplement the E04 TI.

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.



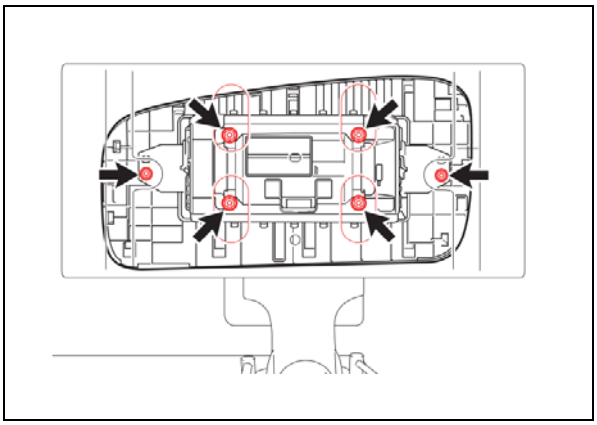


1. MOUNT THE AIRBAG IN THE MOUNTING BRACKET

a) Position the airbag assembly so that the center mounting bracket is facing towards the ground.

b) 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.

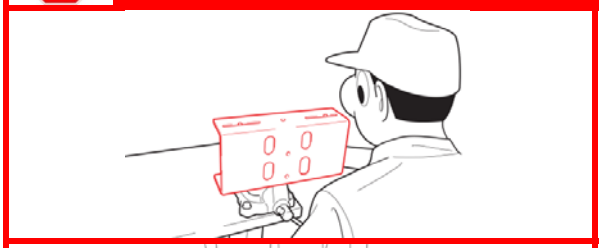


c) Position the airbag so that all four stopper plate nuts can be removed through the access holes.

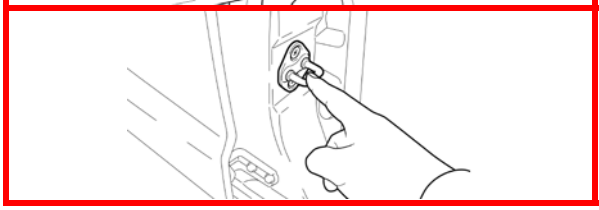
d) Tighten the bolts holding the support bars to the mounting bracket.

e) 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.

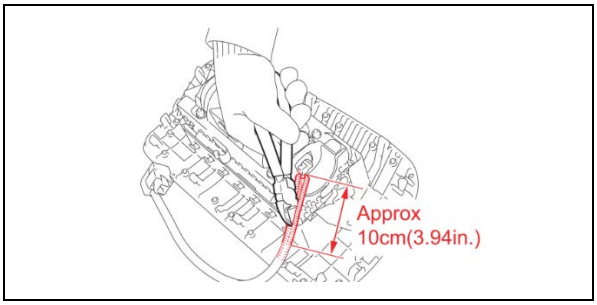
STOP CRITICAL INFORMATION – READ THOROUGHLY STOP



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



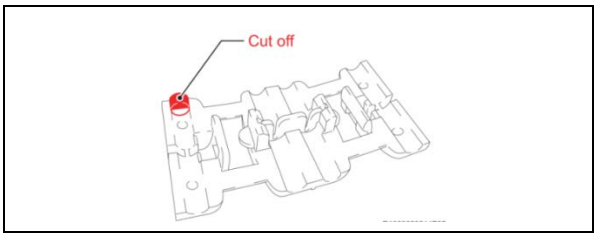
Remember to periodically touch a metallic part of the vehicle to discharge static electricity in the body if the anti-static kit is not being used.



2. PREPARE TO INSTALL THE SHORT CIRCUIT

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

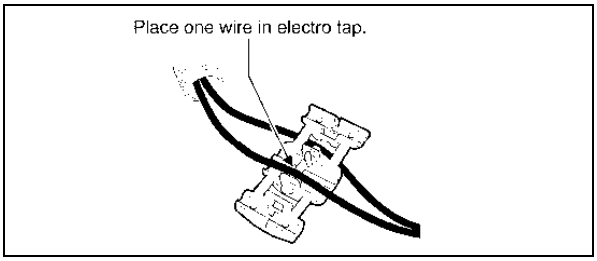
STOP
- ***DO NOT* damage the wires in the tube.**
- ***DO NOT* use a knife or razor blade to cut the tube to avoid damaging the wires.**
- **This may be performed on either end of the inflator.**



b) Cut off the tab of the electro tap shown in the illustration.

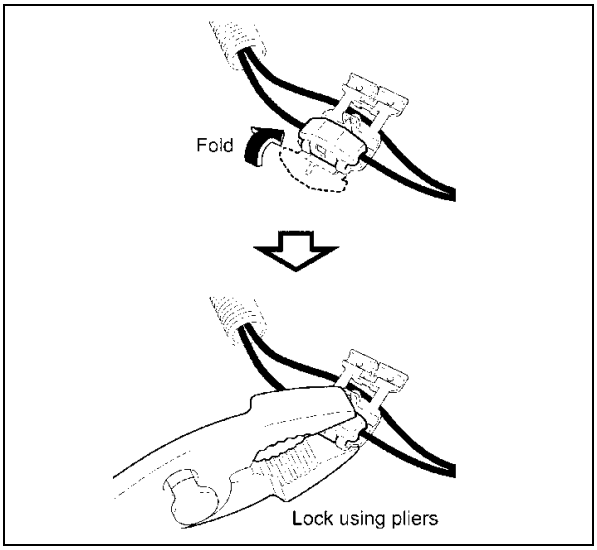
NOTE: The electro tap is included in the inflator parts kit.

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



3. CREATE A NEW SHORT CIRCUIT IN THE INFLATOR HARNESS

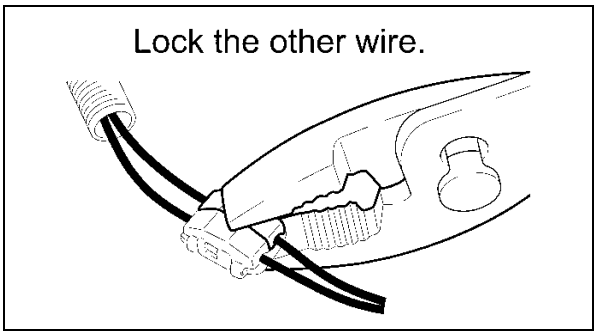
a) Place one wire in the electro tap as shown in the illustration.



b) Fold and pinch the half of the electro tap with the wire and use pliers to lock the electro tap.

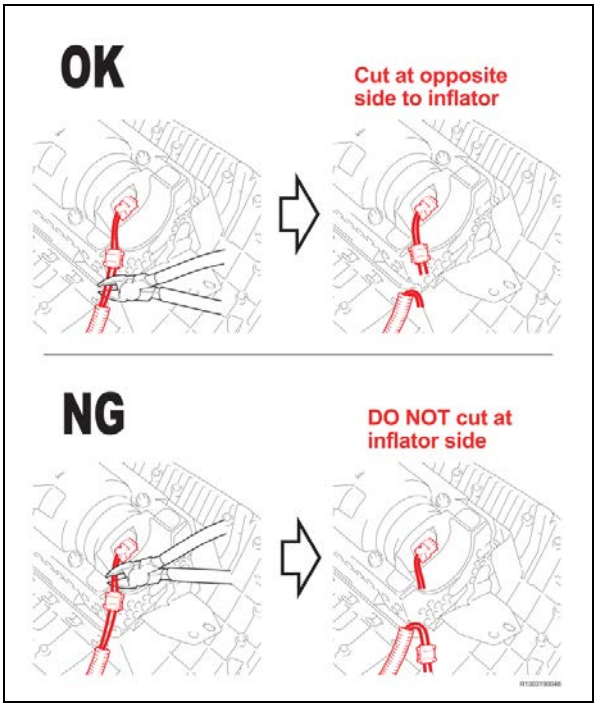
NOTE:

- ***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.

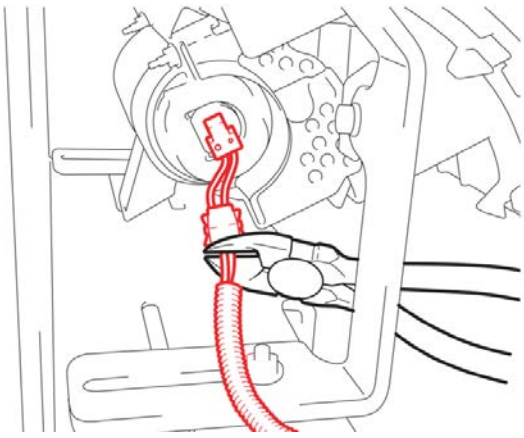
STOP ***DO NOT* measure resistance of the inflator wires, this may cause accidental activation.**



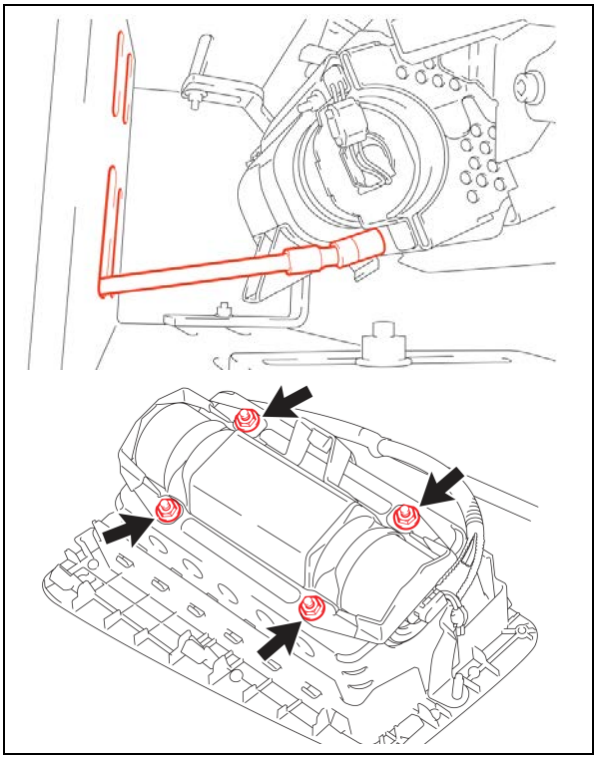
4. CUT THE INFLATOR WIRES

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

Cut the wires opposite the inflator



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

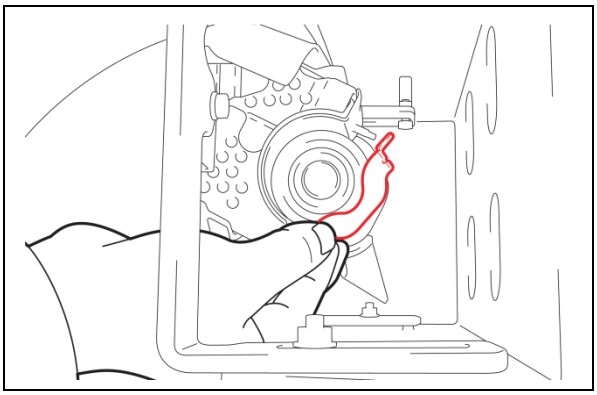


5. REMOVE THE SELF LOCKING NUTS

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.**

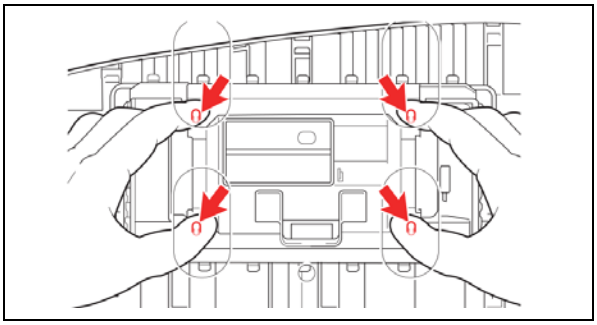


b) Remove the stopper plate and place in a secure location because it will be reused.

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

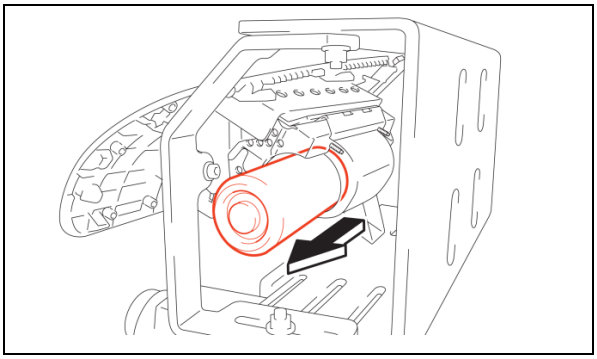
c) Discard the 4 nuts as they are not to be reused.

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



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.

ENSURE YOU ENTER BOTH THE OLD AND NEW INFLATOR SERIAL NUMBERS IN THE APPROPRIATE SPOT OF THE APPLICATION

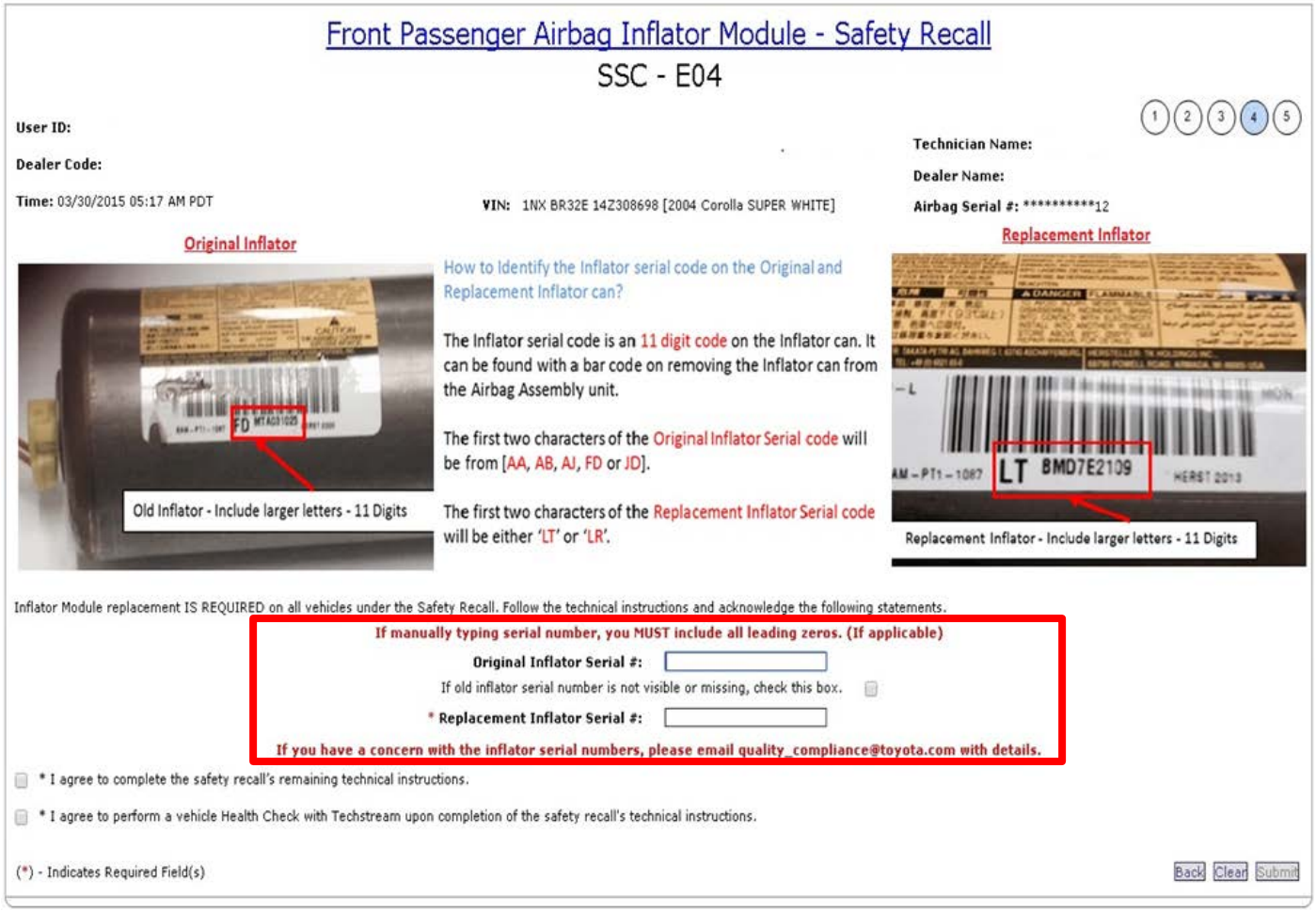
7. SCAN THE OLD AND NEW INFLATOR SERIAL NUMBER

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

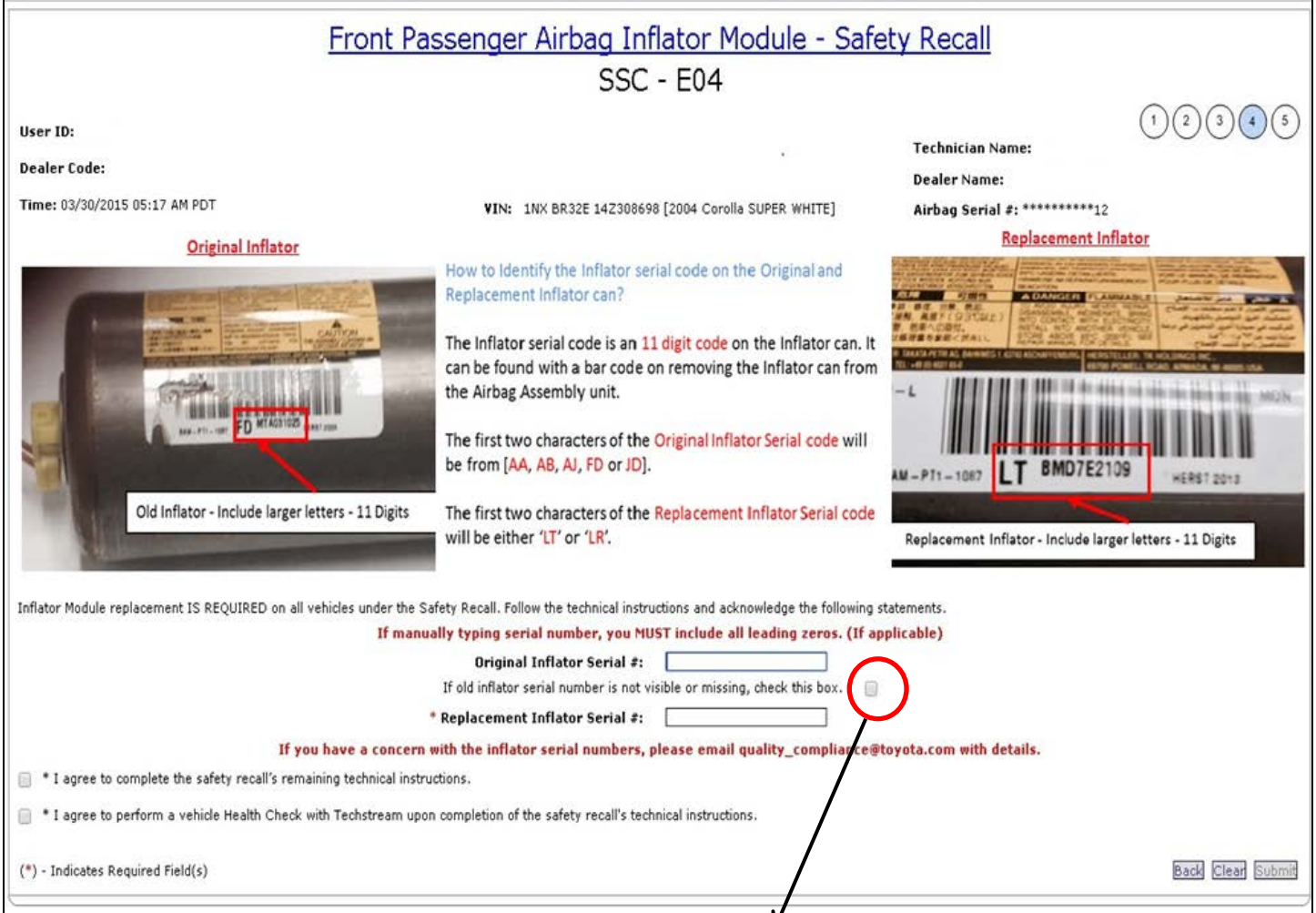
b) Scan the ***NEW*** inflator serial number.

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.**



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



Checking this box requires Airbag Assembly replacement.
****Note** Contact your region in the event that you are unable to read the serial number.**
DO NOT ATTEMPT TO INSTALL INFLATOR

NOTE: The NEW *AIRBAG ASSEMBLY* serial number *MUST* be scanned prior to reinstallation to track the airbag assembly to the vehicle (refer to page 14).

d) Confirm agreement by checking the two boxes in the lower left hand corner of the screen.

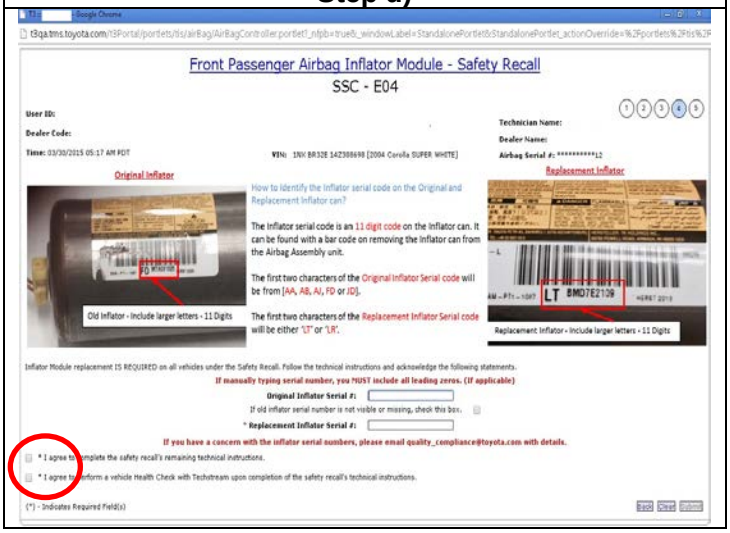
e) Record the Warranty Authorization # to be included in the warranty claim.

f) Place the old inflator in the parts box and take it immediately to the parts department.

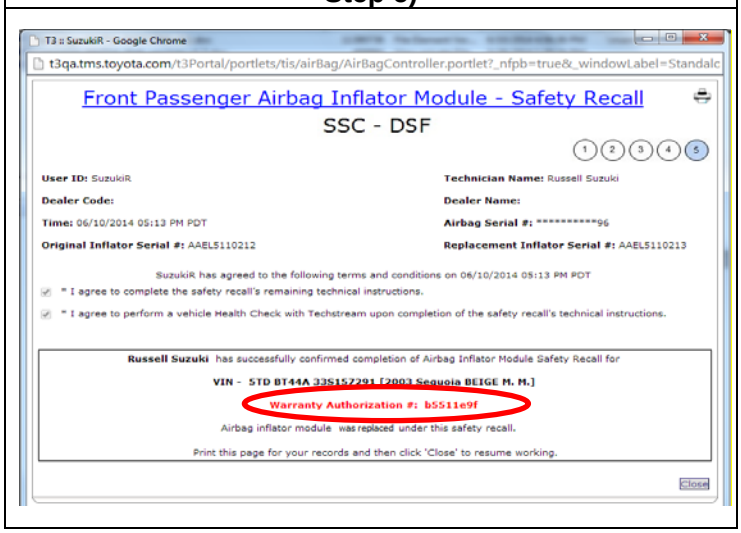
NOTE:

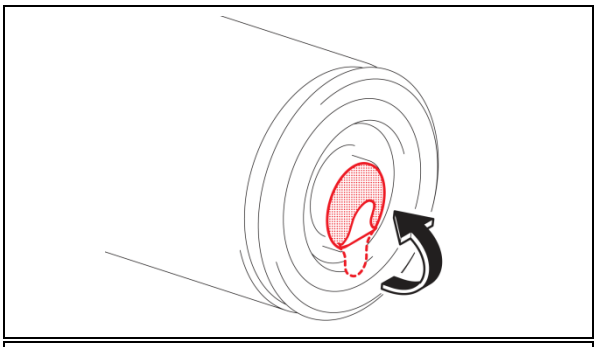
- **Confirm the cursor is in the correct serial number input box before scanning.**
- **If the serial number barcode will not scan, it can be entered manually.**
- **If there are any difficulties or concerns with this process, email quality_compliance@toyota.com with details.**

Step d)



Step e)

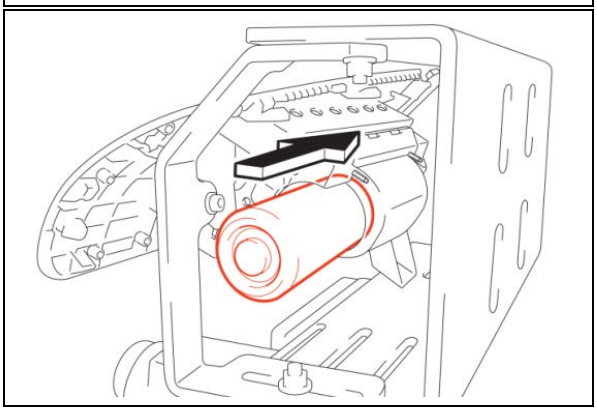




8. FOLD THE CONNECTOR SEAL

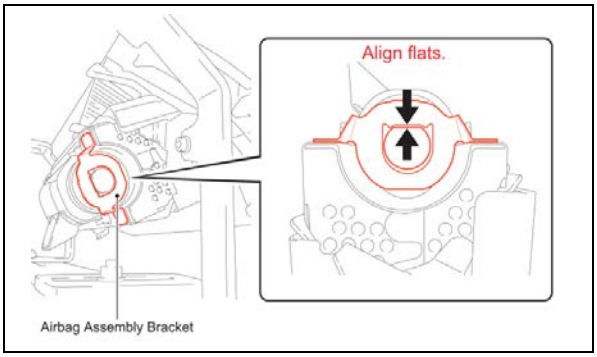
a) Fold the seal in order to prevent it from being caught under the airbag assembly bracket in the next step.

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



9. INSTALL THE *NEW* INFLATOR

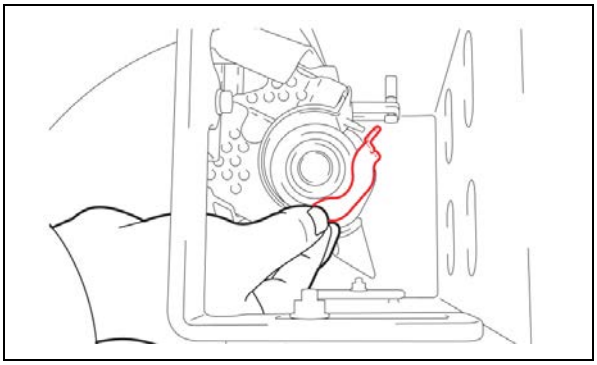
a) Carefully slide the new inflator into the airbag assembly.



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.**



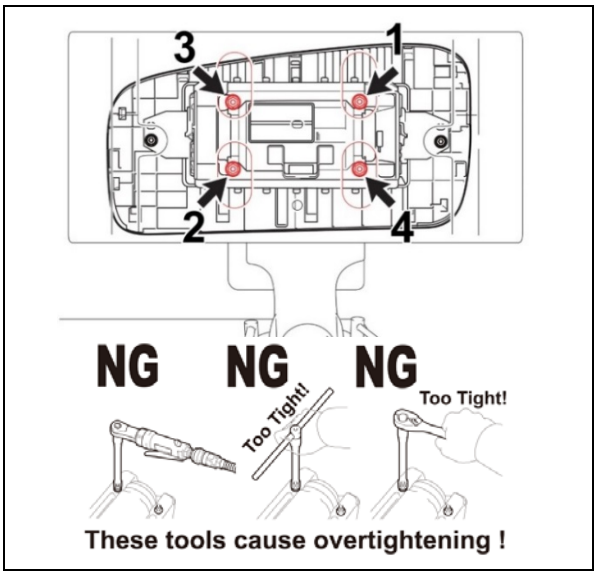
11. REINSTALL THE STOPPER PLATE.

a) Place the stopper plate on the airbag assembly.

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

b) Install stopper plate nuts (***NEW)*** by hand. They will be torqued on a later step.

c) Install the ***NEW*** nuts on the airbag assembly bracket by hand. They will be torqued on a later step.

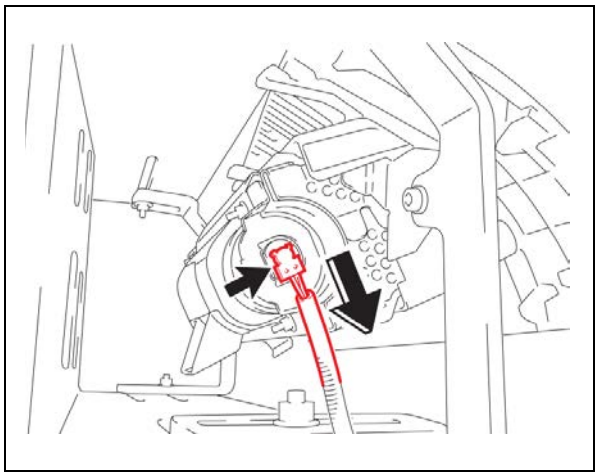


12. TORQUE THE PLATE NUTS

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 over torqueing.**

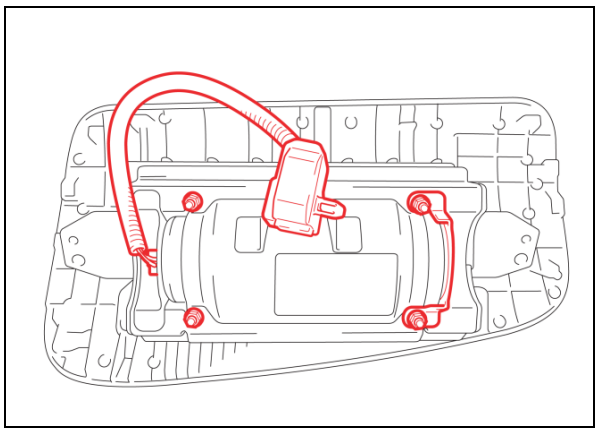


13. CONNECT THE INFLATOR CONNECTOR

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.

> STOP
> - **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

Note: During reinstallation of the airbag assembly, ensure the 12mm bolt and two 10mm nuts securing the airbag assembly to the instrument panel are installed and torqued to the required specification identified on TIS.

b) Refer to TIS for instructions on airbag installation: **2002-2005MY** **2006MY**

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.

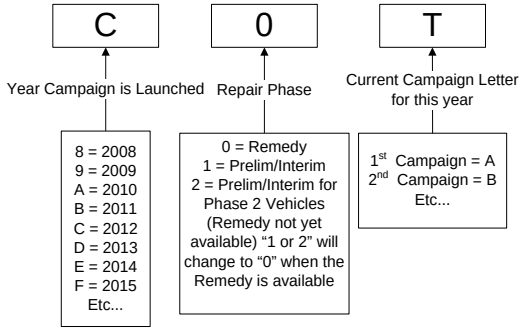
◄ VERIFY REPAIR QUALITY ►

- **Confirm all precautions are 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 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