

TECHNICAL INSTRUCTIONS
FOR
SAFETY RECALL D0F
FRONT PASSENGER AIRBAG INFLATOR MODULE
CERTAIN 2003 – CERTAIN 2004 MODEL YEAR COROLLA
CERTAIN 2003 – CERTAIN 2004 MODEL YEAR MATRIX

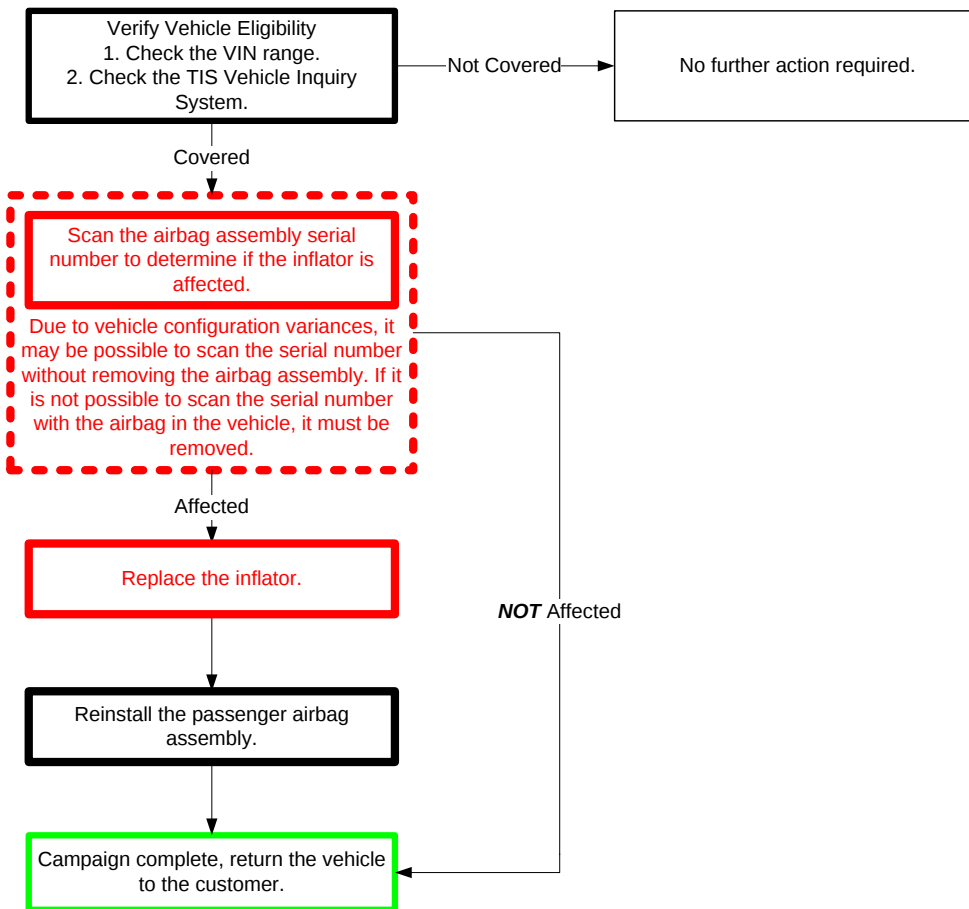
ONLY TECHNICIANS WHO HAVE COMPLETED TRAINING COURSES SC13A, SC13B, AND HAVE THE FOLLOWING LEVEL OF CERTIFICATION CAN PERFORM THIS REPAIR:

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

[Complete D0F Technical Video Supplement](#)

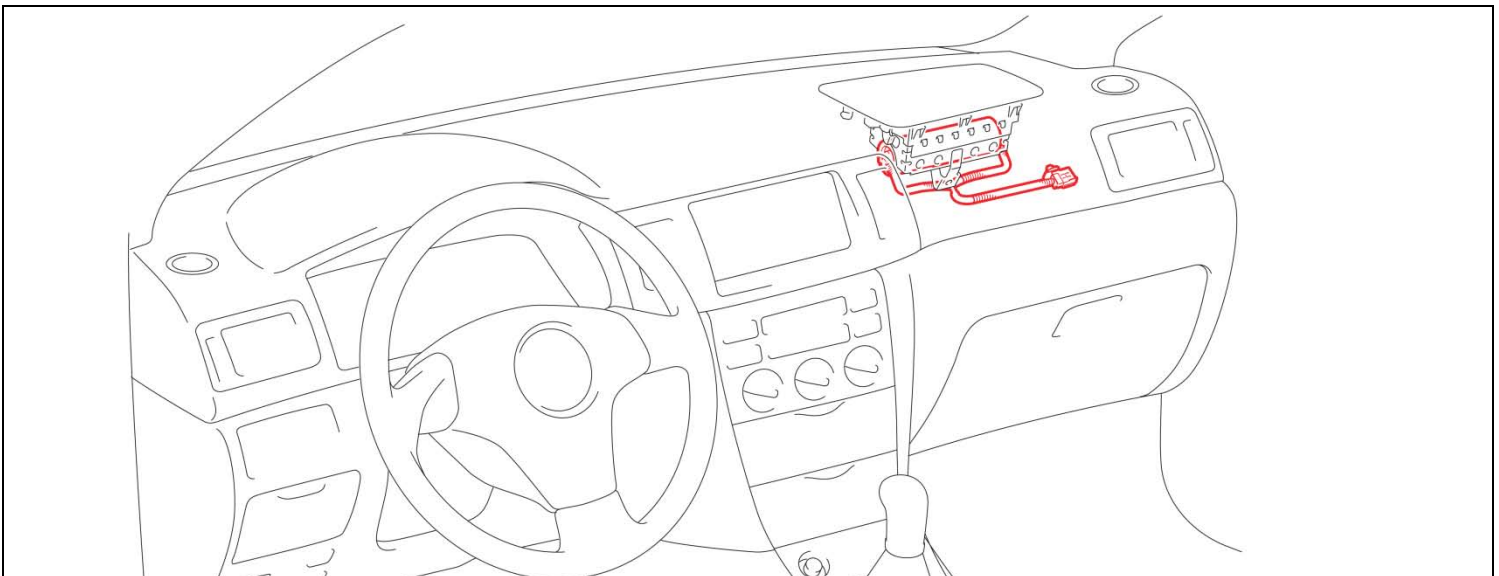
I. OPERATION FLOW CHART

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



II. BACKGROUND

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



III. IDENTIFICATION OF AFFECTED VEHICLES

A. COVERED VIN RANGE

Model	WMI	Year	VIN Range	
			VDS	Range
Corolla	1NX	2003	BR32E	Z000001-ZPP4315
		2004		Z190447-Z336017
		2003	BR38E	Z000012-Z190424
		2004		Z190512-Z303812
	2T1	2003	BR32E	C000086-C778027
		2004		C165645-C815358
		2003	BR38E	C000082-C745159
		2004		C167737-C781339
	JTD	2003	BR32E	0002007-0051596
				2000003-2016855
		2004		0051487-0053025
				2016856-2044363
		2003	BR38E	0006684-0051592
				2000004-2016852
		2004		0051779-0053026
				2016863-2044321
Matrix	2T1	2003	KR32E	C000083-C774535
		2004		C165644-C268306
		2003	KR38E	C000094-C165424
		2004		C165737-C165757
		2003	KY32E	C000098-C700045
		2004		C165726-C171347
		2003	KY38E	C000118-C165579
		2004		C165661-C166108
		2003	LR32E	C000084-C776114
		2004		C165669-C278005
		2003	LR38E	C001163-C165585

NOTE:

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

IV. PREPARATION

A. PARTS

Model	Part Number	Part Description	Quantity
Corolla	04003-28102	Instrument Panel Airbag Inflator Kit*	1
Matrix	04003-28101	Instrument Panel Airbag Inflator Kit*	1

*The kit above includes the following parts. Both kits include the same components, but because the components are different the kits **ARE NOT** interchangeable.

Inflator	1
Self Locking Nut	4
Stopper Plate	1
Position Determining Plate	1
Electro Tap	1
Felt Tape Strips	2

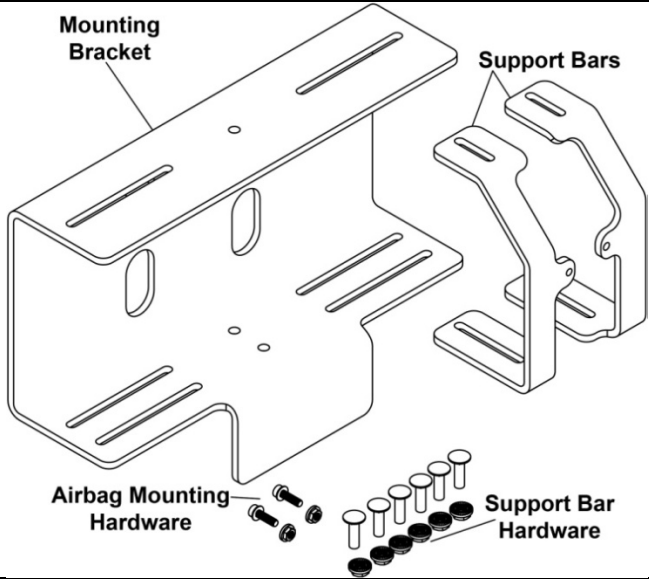
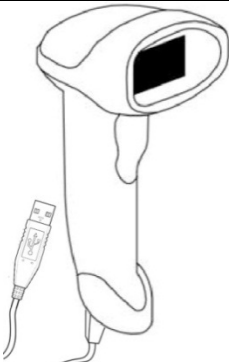
B. TOOLS & EQUIPMENT

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

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

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

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

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

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

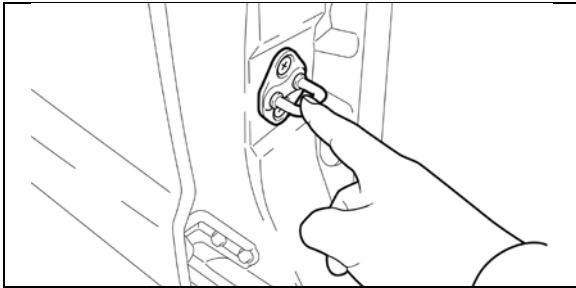
V. SAFETY PRECAUTIONS



CRITICAL INFORMATION – READ THOROUGHLY

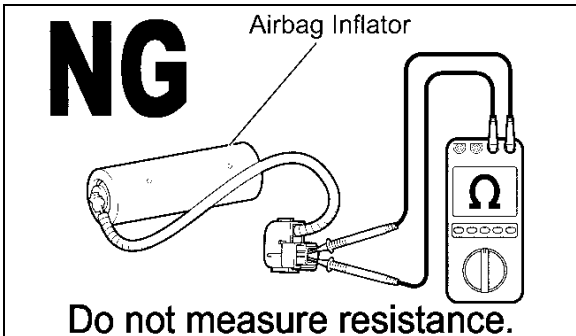


Failure to follow these procedures correctly could cause the SRS to unexpectedly deploy during servicing or the SRS may fail to operate correctly when required after reassembly. Confirm all work is performed as described in these instructions.



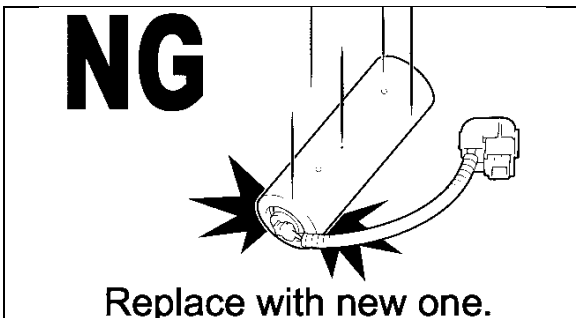
1. ELIMINATE STATIC ELECTRICITY

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



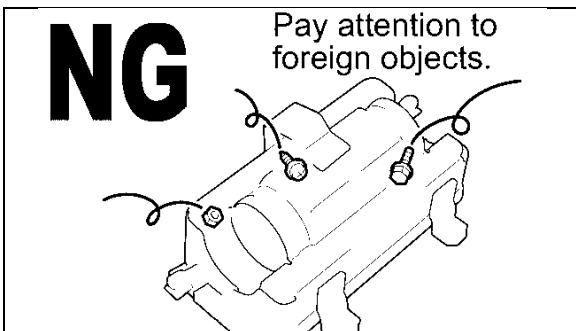
2. DO NOT MEASURE RESISTANCE

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



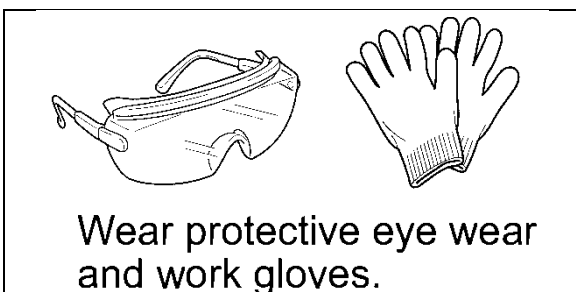
3. HANDLE THE AIRBAG CAREFULLY

- 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. WORK AREA PREPARATION

[Video Supplement: Introduction](#)

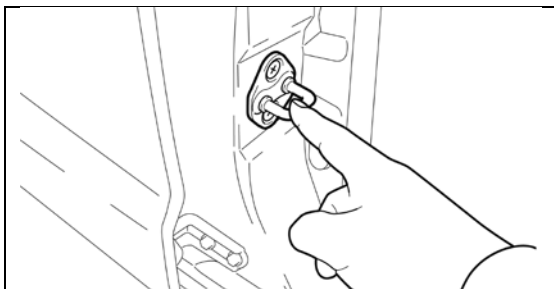
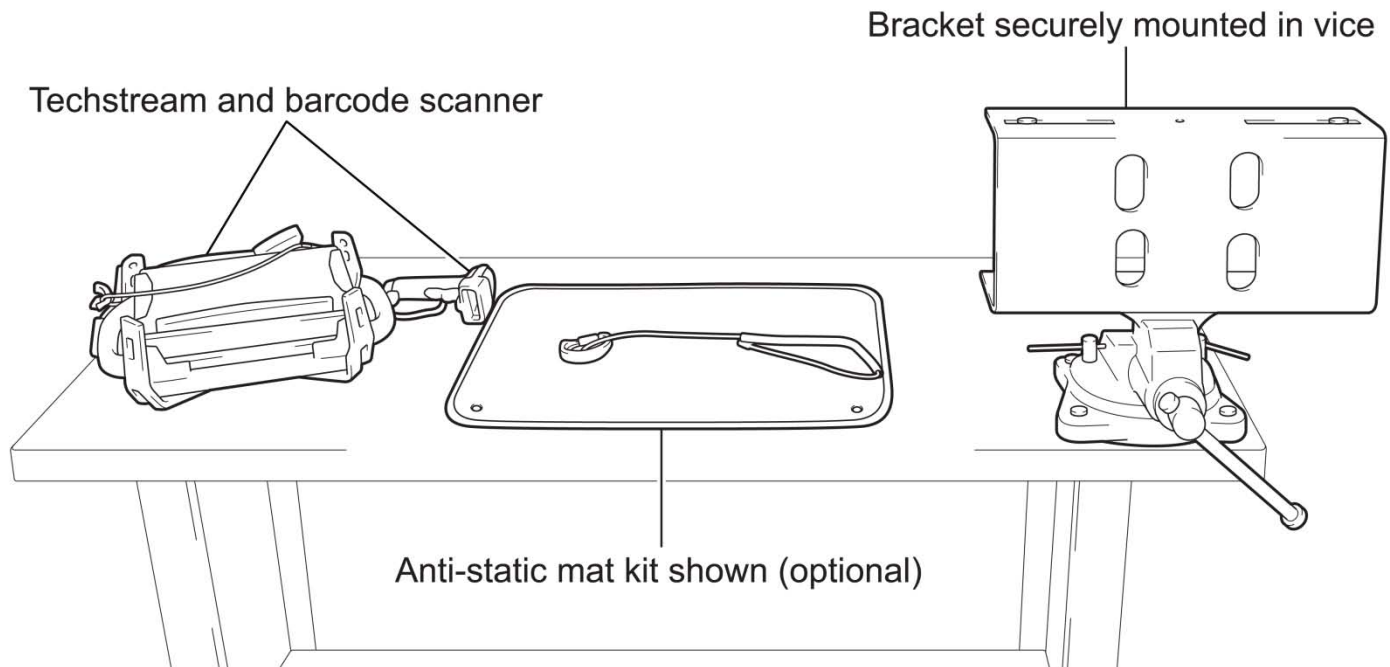


CRITICAL INFORMATION – READ THOROUGHLY



The bracket assembly that was provided at the launch of this campaign 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.

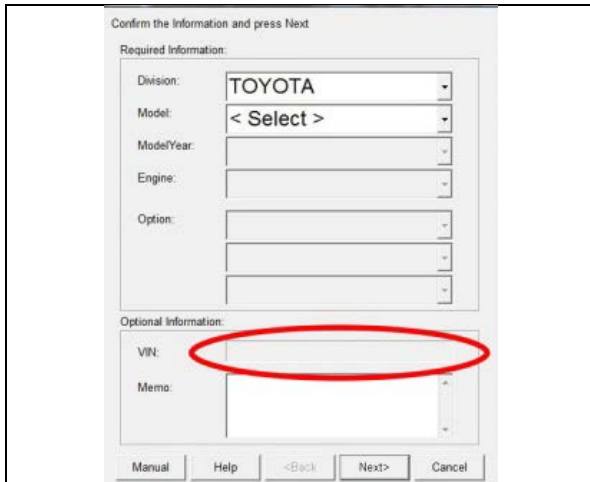
Confirm there are no loose objects or people exposed to the back side of the bracket for safety in the unlikely event of airbag deployment due to improper work procedures (Remember that the inflator **IS NOT** being replaced due to an inadvertent deployment concern).



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.

VII. FRONT PASSENGER AIRBAG ASSEMBLY INSPECTION

Video Supplement: Inspection



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.
- Perform a health check.



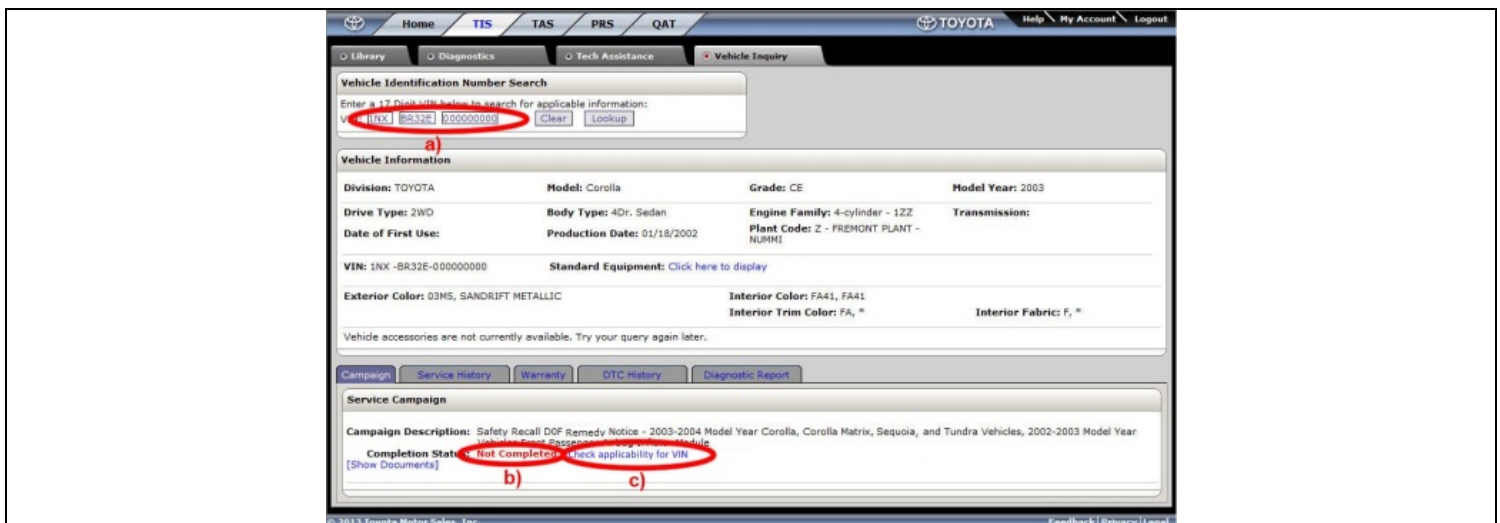
- The VIN **MUST** be entered manually when launching the Techstream software, the VIN **WILL NOT** auto-populate due to vehicle age.
- A health check with VIN record **MUST** be performed within the last 36 hours and recorded by TMS. If the VIN is not entered, the healthcheck will not be recognized by TMS.
- The serial number checker application will be disabled and the inspection cannot be completed if a health check is not performed and recorded by TMS.

2. LAUNCH THE SERIAL NUMBER CHECKER APPLICATION



- The **AIRBAG ASSEMBLY** serial number **MUST** be inspected using TIS and the barcode scanner (provided at the launch of this campaign) to determine if **INFLATOR** replacement is necessary.
- The barcode scanner application **MUST** be completed on every vehicle to obtain the Warranty Authorization #. This number **MUST** be included on every warranty claim that is submitted for inflator module replacement or the claim may be subject to debit.
- The technician performing the work **MUST** have valid TIS login credentials and an internet connection to perform the inspection and scanning process.

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



- Reenter TIS password in the serial number checker application.

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

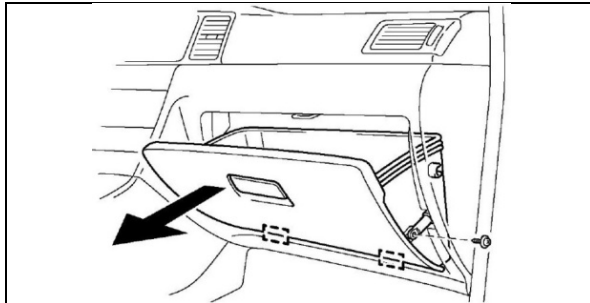


NOTE:

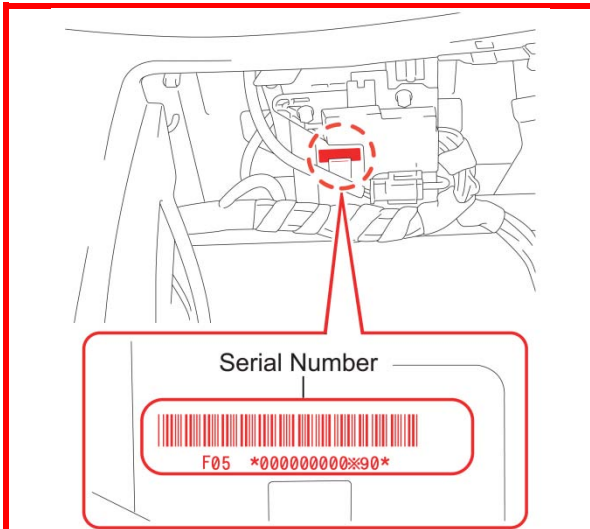
- A task status screen will populate next and at other intervals during the repair. This screen will indicate if the inspection has previously been performed, who performed it, and where it was performed; review this information and then click 'next' to proceed to the next step. This information will 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.

3. REMOVE THE GLOVE BOX

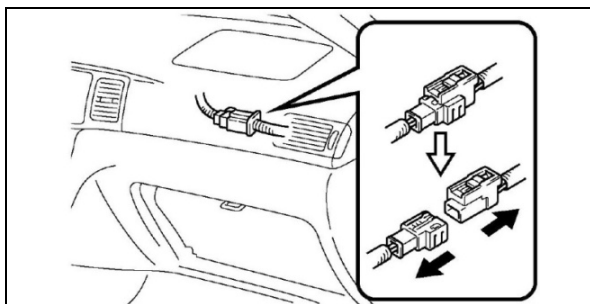
- Remove the screw and disconnect the stopper sub-assembly.
- Completely remove the glove box from the dashboard.



4. REMOVE THE AIRBAG ASSEMBLY



It may be possible to scan the airbag serial number without removing the airbag assembly, but due to vehicle configuration variances it will not be possible on all vehicles. If it is not possible to scan the serial number with the airbag in the vehicle, it must be removed, follow the steps below for airbag removal.



- Disconnect the negative battery cable.

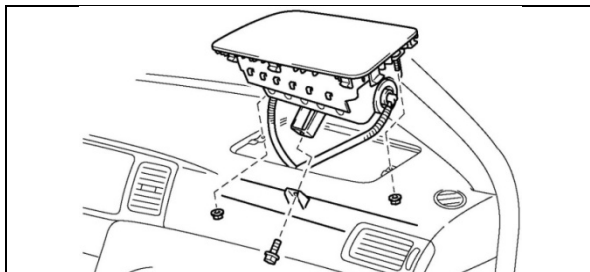


- Wait at least 90 seconds after disconnecting the cable from the negative battery terminal to prevent airbag and seat belt pretensioner deployment.
- Follow all precautions as outlined on TIS before servicing the SRS system.

- Disconnect the airbag connector.

- Remove the bolt and 2 nuts and remove the airbag assembly.

NOTE: Use caution to avoid scratching or damaging the dashboard assembly, place protective tape on the dashboard if needed.



5. 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 is included in the campaign tool kit.
- The scanner works best in low light conditions.
- Always hold the scanner directly in front of and parallel to the barcode label.

6. INSPECT AND SCAN THE AIRBAG SERIAL NUMBER

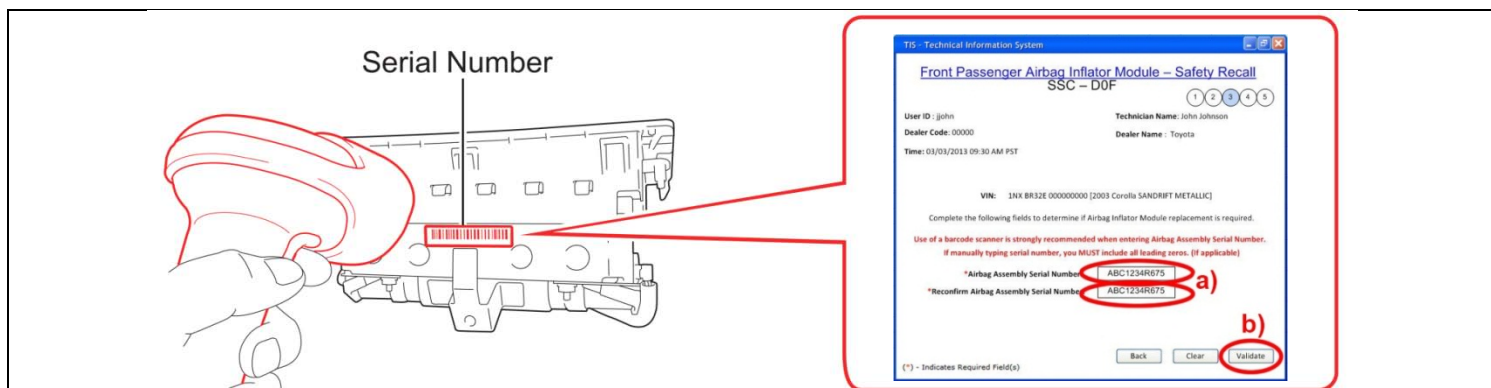
- Scan the **AIRBAG ASSEMBLY** serial number 2 times.
 - Confirm the cursor is in the first serial number box then scan the serial.
 - Position the cursor in the second serial number box then scan the serial.
- Click validate to determine if the inflator is affected.

NOTE:

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



The **AIRBAG ASSEMBLY** serial number and the **INFLATOR** serial number are **DIFFERENT**. The **AIRBAG ASSEMBLY** serial number **MUST** be scanned to determine if **INFLATOR** replacement is required.



CONDITION 1

Inflator replacement **REQUIRED**

The inflator is affected and replacement is required. Proceed to **STEP VIII.** for instructions on inflator replacement.

CONDITION 2

NO NEED to replace inflator

The inflator **IS NOT** affected and **DOES NOT** need to be replaced. Complete the following steps:

- Record the Warranty Authorization # provided at the end of the serial number checker application to be included in the warranty claim.
- Reassemble the vehicle.
- Perform a health check on the vehicle.

VIII. INFLATOR REPLACEMENT

[Video Supplement: Inflator Replacement](#)



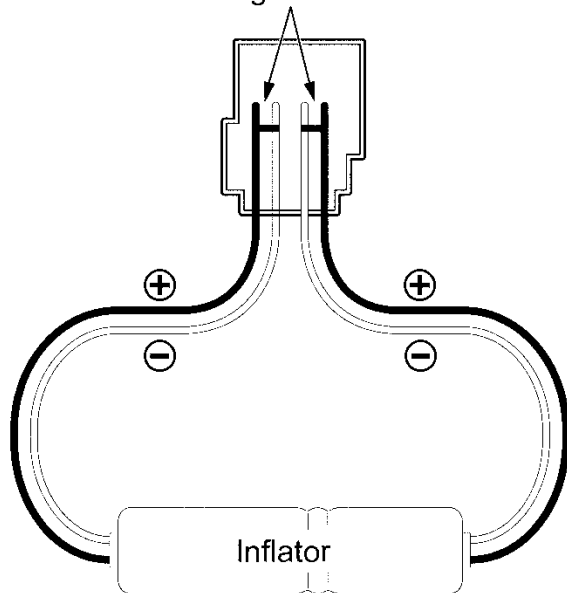
CRITICAL INFORMATION – READ THOROUGHLY



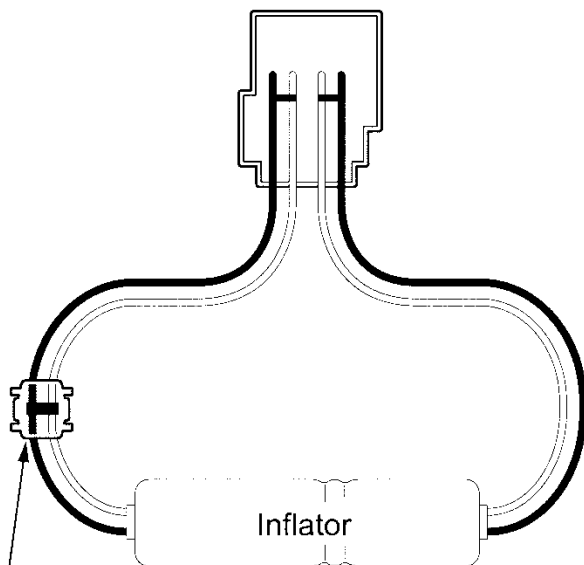
The connector of the inflator module contains a short circuiting mechanism to eliminate voltage variances when the connector(1) is disconnected. To allow for the replacement of the inflator module, a new short circuit(2) **MUST** be created before cutting the wires(3) and removing the inflator. The following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

(1)

Short circuiting on both sides.

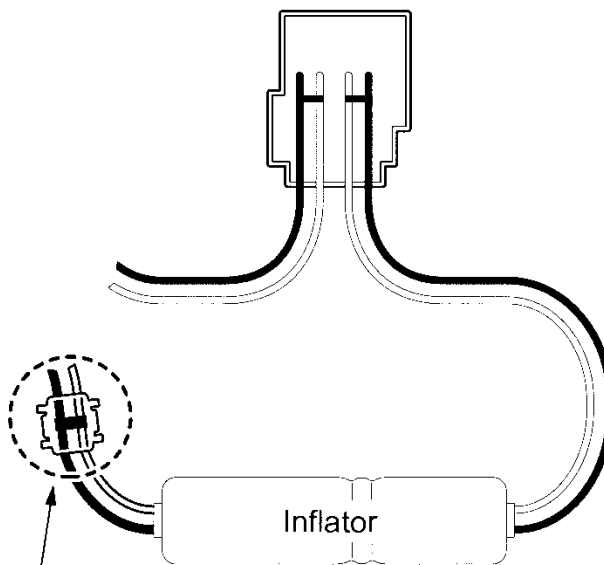


(2)



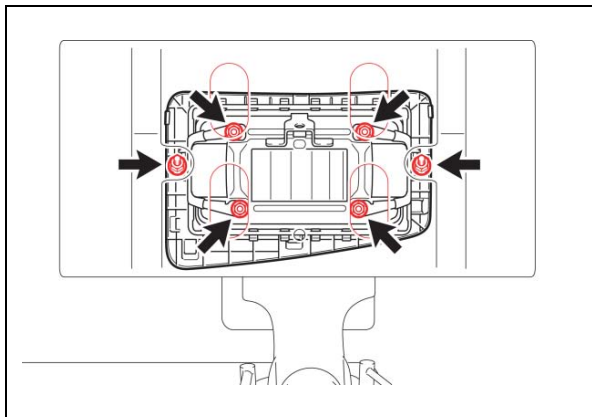
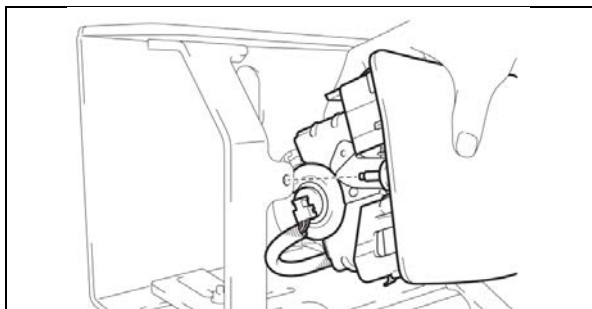
Create new short circuit using electro tap.

(3)



Short circuiting is maintained even after cutting harness.

R1302250036E



1. MOUNT THE AIRBAG IN THE MOUNTING BRACKET

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

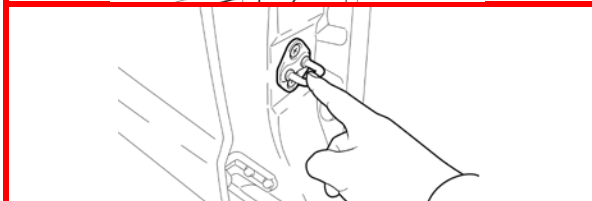
STOP

CRITICAL INFORMATION – READ THOROUGHLY

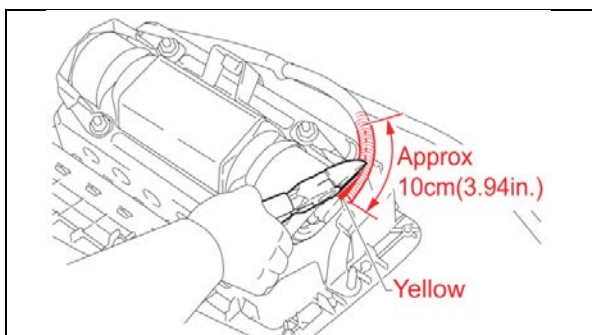
STOP



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



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

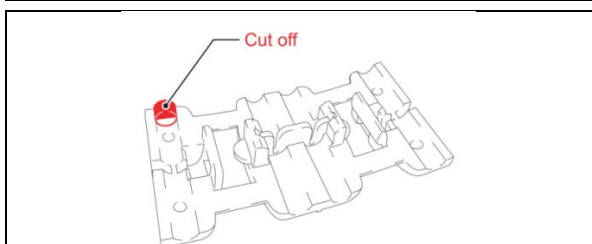


2. PREPARE TO INSTALL THE SHORT CIRCUIT

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

STOP

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

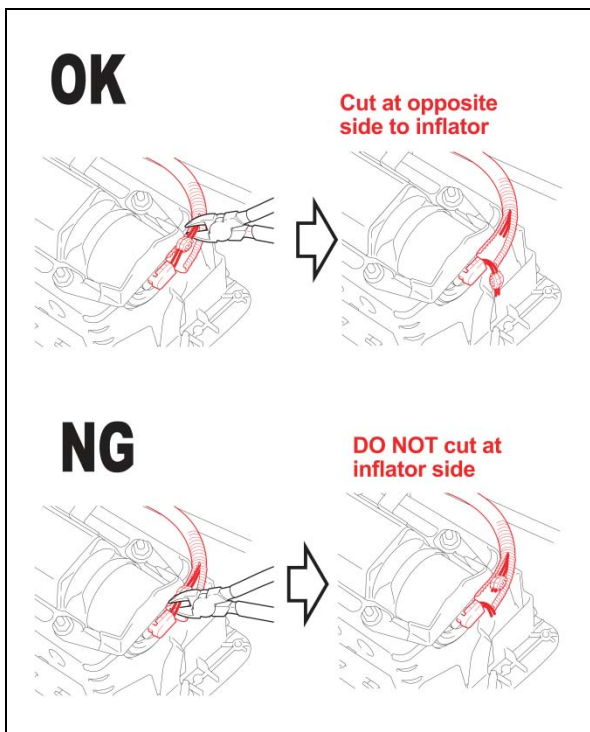
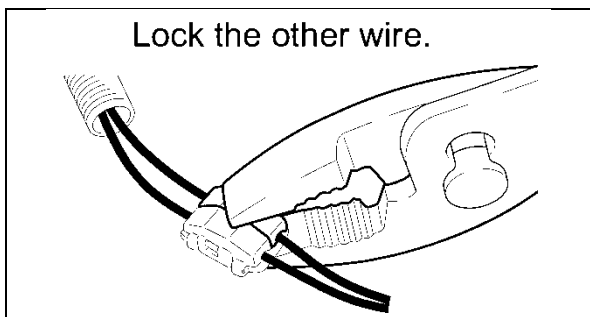
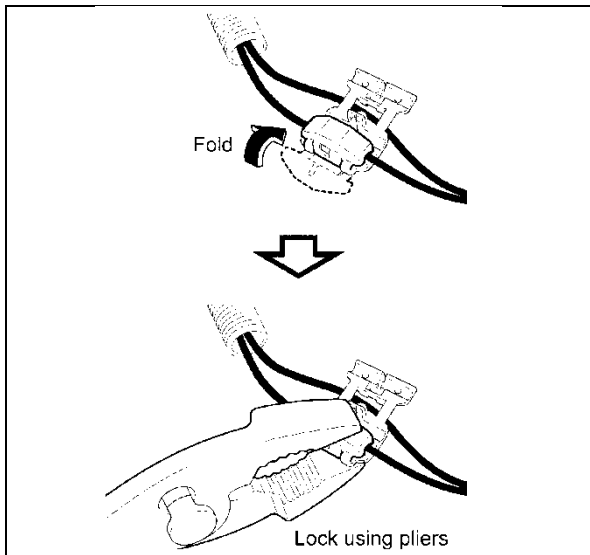
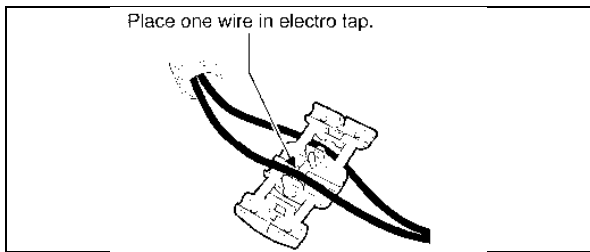


- Cut off the tab of the electro tap shown in the illustration.

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

STOP

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



3. CREATE A NEW SHORT CIRCUIT IN THE INFLATOR HARNESS

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

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

NOTE:

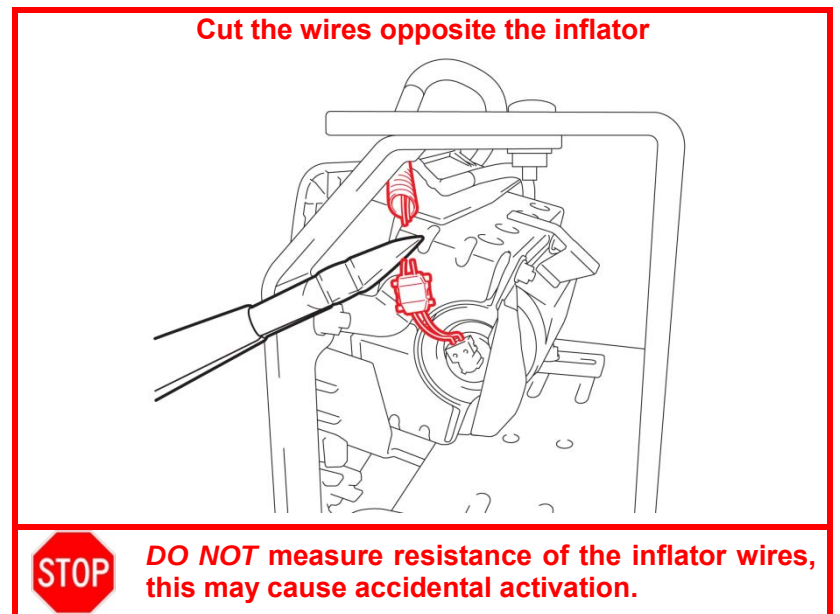
- **DO NOT** work on both wires at the same time to avoid errors.
- Pliers **MUST** be used to confirm the electro tap is firmly locked in place.

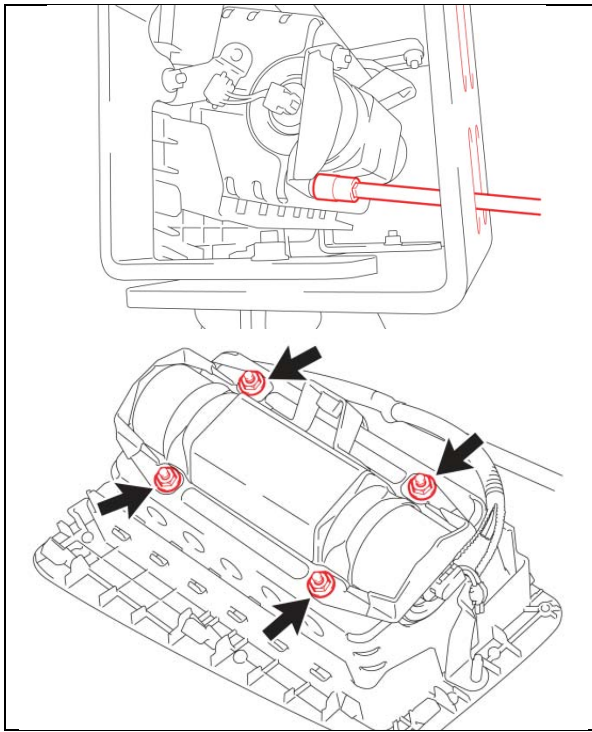
c) Set the other wire in the electro tap and lock it in place using pliers.

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

4. CUT THE INFLATOR WIRES

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



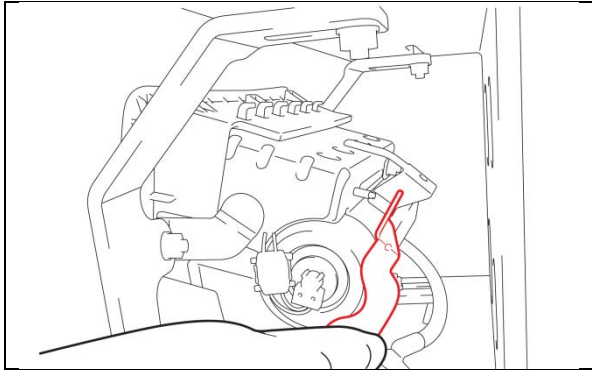


5. REMOVE THE SELF LOCKING NUTS

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

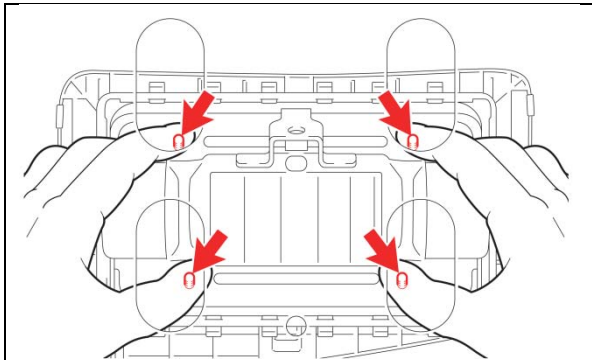
NOTE:

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



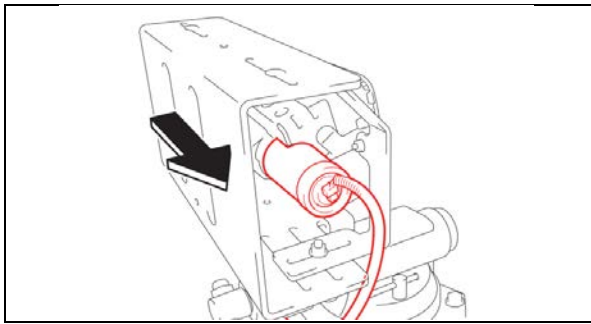
b) Remove the stopper plates.

c) Discard the 4 nuts and 2 stopper plates as they are not to be reused.



6. REMOVE THE INFLATOR

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



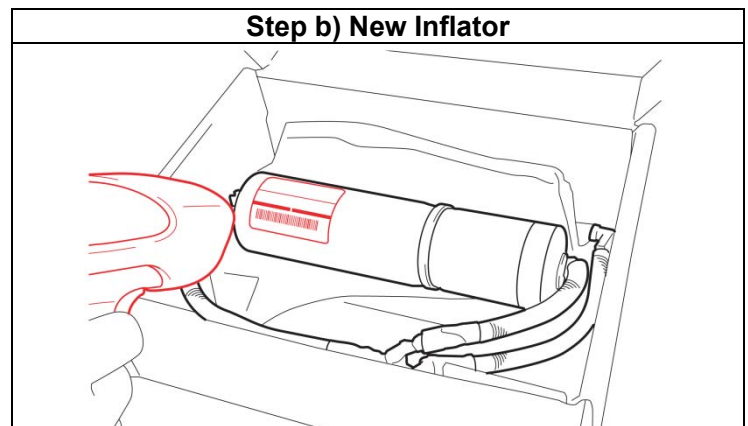
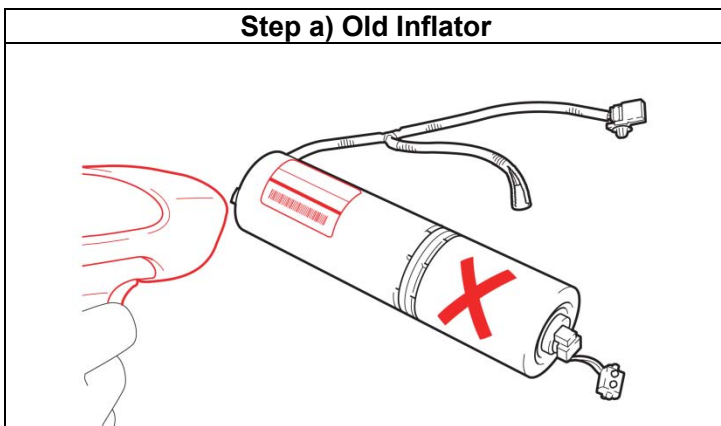
- b) Remove the inflator from the airbag assembly and place it on a safe work surface.

7. SCAN THE OLD AND NEW INFLATOR SERIAL NUMBER

- 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.

NOTE: This information is CRITICAL

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



- 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 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 c)

TIS - Technical Information System

Front Passenger Airbag Inflator Module – Safety Recall
SSC – D0F

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

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

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

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

*Replacement Inflator Serial #: IA25678

If you have a concern with the inflator serial numbers, please email quality_compliance@toyota.com with details.

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

(*) - Indicates Required Field(s)

Back Clear Submit

Step d)

TIS - Technical Information System

Front Passenger Airbag Inflator Module – Safety Recall
SSC – D0F

User ID : jjohn Technician Name: John Johnson
Dealer Code: 00000 Dealer Name : Toyota
Time: 03/03/2013 09:39 AM PST Airbag Serial #: *****45
Original Inflator Serial #: IABC1234 Replacement Inflator Serial #: IA25678

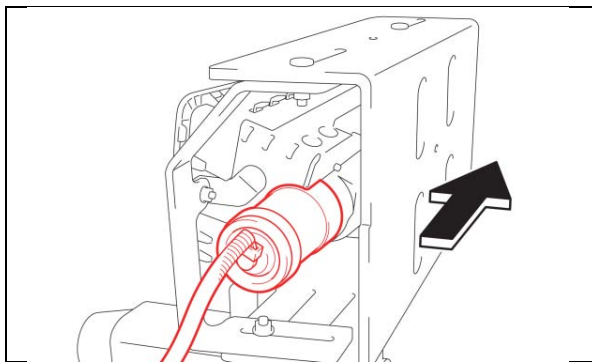
jjohn has agreed to the following terms and conditions on 03/03/2013 09:39 AM PST.

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

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

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

Close

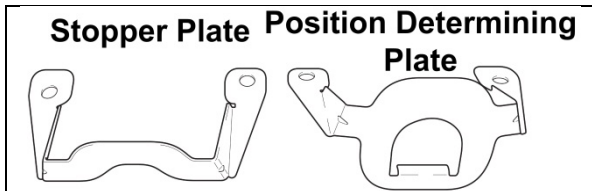


8. INSTALL THE NEW INFLATOR

- Carefully slide the new inflator into the airbag assembly.

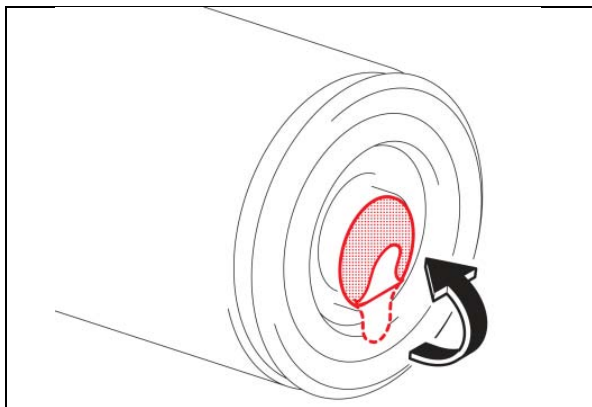


- DO NOT** connect the inflator harness at this time. It is **CRITICAL** to install the plates first to confirm the inflator is installed in the correct position before connecting the harness.



9. CONFIRM THE NEW PLATES

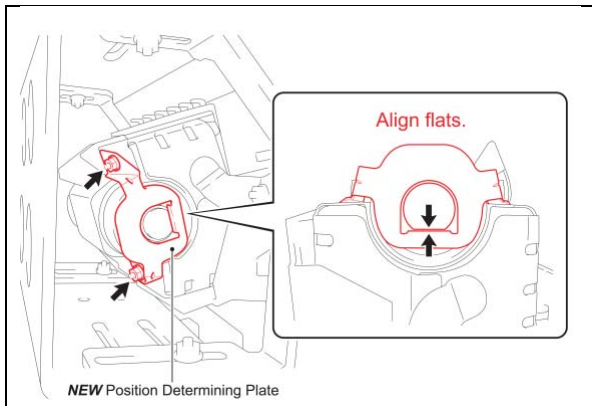
- Confirm the identification of the stopper plate and the position determining plate, **THEY ARE DIFFERENT**.



10. FOLD THE CONNECTOR SEAL

- Fold the seal in order to prevent it from being caught under the position determining plate in the next step.

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

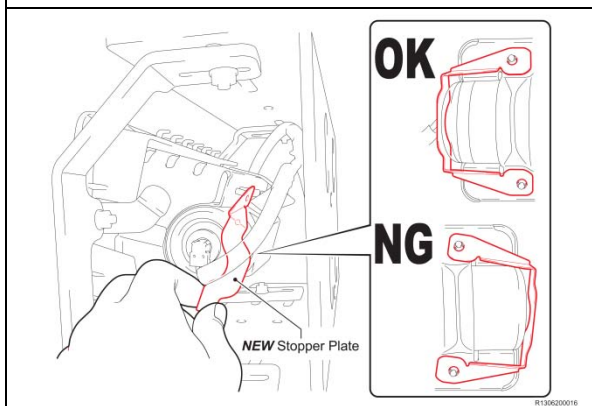


11. INSTALL THE NEW POSITION DETERMINING PLATE

- Place the **NEW** position determining plate on the airbag assembly on the side with the connector seal.
- Install **NEW** nuts by hand.



- Confirm the flats on the position determining plate and inflator are aligned.
- DO NOT** pinch the harness between the inflator and the plate.

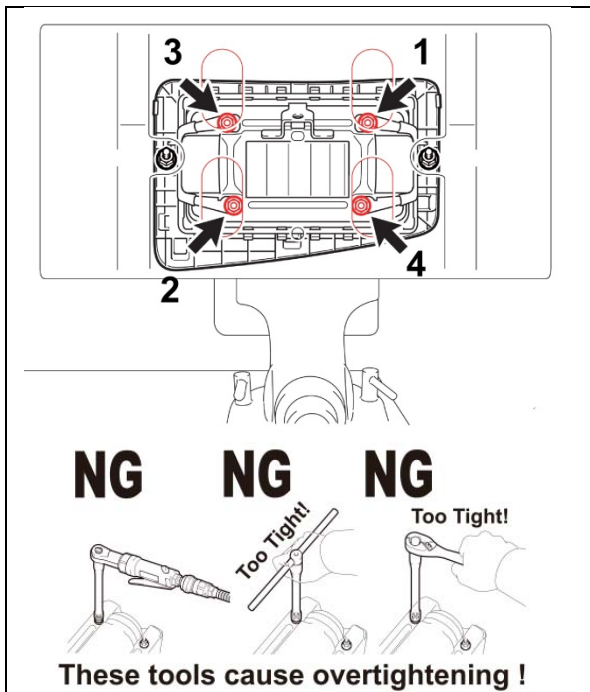


12. LOOSELY INSTALL A NEW STOPPER PLATE.

- Place the **NEW** stopper plate on the airbag assembly on the side where the harness is already connected.
- Confirm the end of the inflator sits flat against the stopper plate. If they do not align the inflator is installed backward.
- Install NEW stopper plate nuts by hand. They will be torqued on a later step.



- Confirm the stopper plate to inflator fitment is correct.
- DO NOT** pinch the harness between the inflator and the stopper plate.



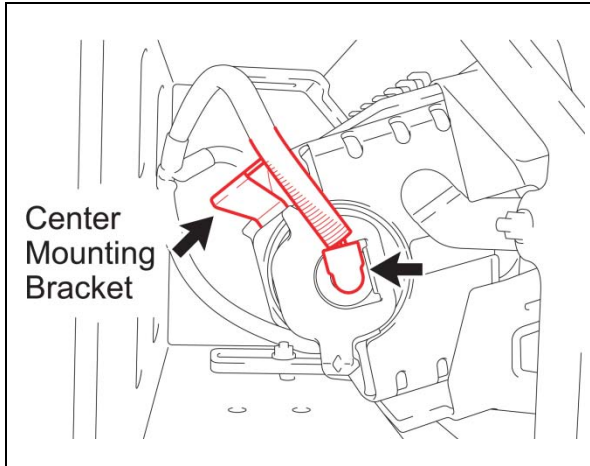
13. TORQUE THE PLATE NUTS

- 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)



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

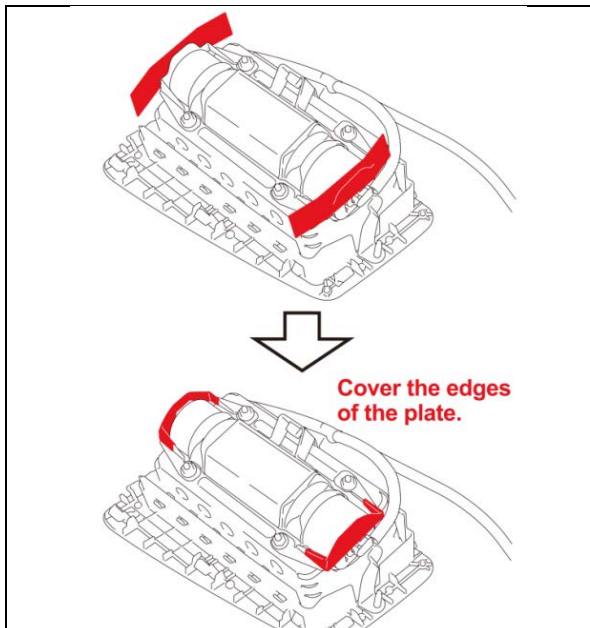


14. CONNECT THE INFLATOR CONNECTOR

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



- 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.

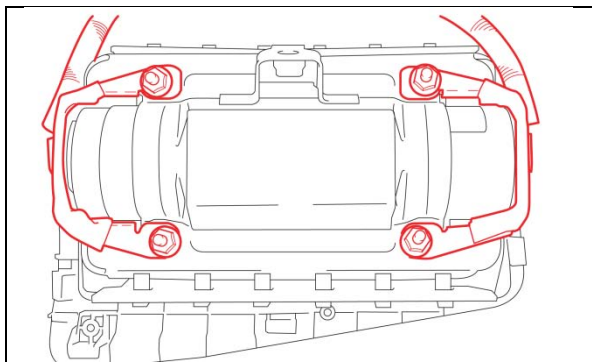


15. REMOVE THE AIRBAG ASSEMBLY FROM THE BRACKET

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

16. ATTACH THE FELT TAPE

- Attach the felt tape to the edges of the stopper and position determining plate.



17. INSPECT THE AIRBAG BEFORE INSTALLATION

- Confirm that the 4 **NEW** plate nuts are installed and tight.
- Confirm the **NEW** stopper and position determining plates are installed.
- Confirm the flats on the position determining plate and inflator are aligned.
- Confirm the orientation of the inflator wire harness.

IX. FRONT PASSENGER AIRBAG ASSEMBLY INSTALLATION

1. REINSTALL THE AIRBAG ASSEMBLY

- Refer to TIS for instructions on airbag installation: [Corolla](#), [Matrix](#)

2. RECONNECT THE NEGATIVE BATTERY CABLE

3. PERFORM A HEALTH CHECK

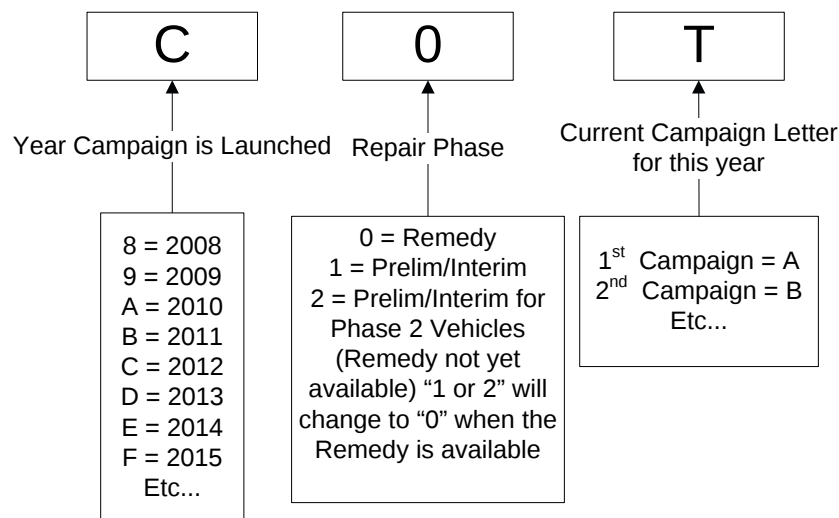
◀ VERIFY REPAIR QUALITY ▶

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

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

X. 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
- On the laminated aid that was provided at the launch of the campaign