



Recall Bulletin



PRODUCT SAFETY RECALL

SUBJECT: Front Passenger Air Bag Inflator

MODELS: 2003-2004 Pontiac Vibe

Effective immediately, all inflators must now be replaced. Inspection of the air bag serial number to determine the pass/fail status of a front passenger air bag inflator is no longer required. Accordingly, this bulletin has been modified to remove instructions regarding the use of Bar Code Scanner EL51378 or visual inspection of the air bag serial number. Involved vehicles that were previously serviced and passed the inspection will need to be serviced again so the inflator can be replaced. These customers will be notified to return to a GM dealer to have their vehicle's front passenger air bag inflator replaced. This customer notification letter will be mailed in the near future under new recall number 14491. Those customers who have not yet responded to the original recall notification letter will also receive another letter reminding them that their vehicle's front passenger air bag inflator needs to be replaced. This letter will be mailed in the near future under new recall number 14491. Please discard all copies of bulletin 13112A.

CONDITION

The Pontiac Vibe was manufactured by New United Motor Manufacturing, Inc. (NUMMI), a joint venture between Toyota and GM.

Toyota has decided that a defect, which relates to motor vehicle safety, exists in certain 2003 and 2004 model year Pontiac Vibe vehicles. As a result, GM is conducting a safety recall. Some of these vehicles have a condition in which the front passenger air bag inflator could have been assembled with improperly manufactured propellant wafers. Improperly manufactured propellant wafers could cause the inflator to rupture and the front passenger air bag to deploy abnormally in the event of a crash, increasing the risk of injury to the occupant.

CORRECTION

Dealers are to check the bar code label on the front passenger air bag inflator to determine if it has been previously replaced and, if necessary, replace the inflator.

VEHICLES INVOLVED

All involved vehicles are identified by Vehicle Identification Number on the Investigate Vehicle History screen in GM Global Warranty Management system. Dealership service personnel should always check this site to confirm vehicle involvement prior to beginning any required

inspections and/or repairs. It is important to routinely use this tool to verify eligibility because not all similar vehicles may be involved regardless of description or option content.

For dealers with involved vehicles, a listing with involved vehicles containing the complete vehicle identification number, customer name, and address information has been prepared and will be provided to U.S. and Canadian dealers through the GM GlobalConnect Recall Reports. Dealers will not have a report available if they have no involved vehicles currently assigned.

The listing may contain customer names and addresses obtained from Motor Vehicle Registration Records. The use of such motor vehicle registration data for any purpose other than follow-up necessary to complete this recall is a violation of law in several states/provinces/countries. Accordingly, you are urged to limit the use of this report to the follow-up necessary to complete this recall.

PART INFORMATION

Parts required to complete this recall are to be obtained from General Motors Customer Care and Aftersales (GMCCA). Please refer to your "involved vehicles listing" before ordering parts. Order parts on a CSO = Customer Special Order only. All orders will be reviewed prior to being filled.

Part Number	Description	Quantity/Vehicle
19205568	INFLATOR ASM, I/P MDL AIR BAG *	1

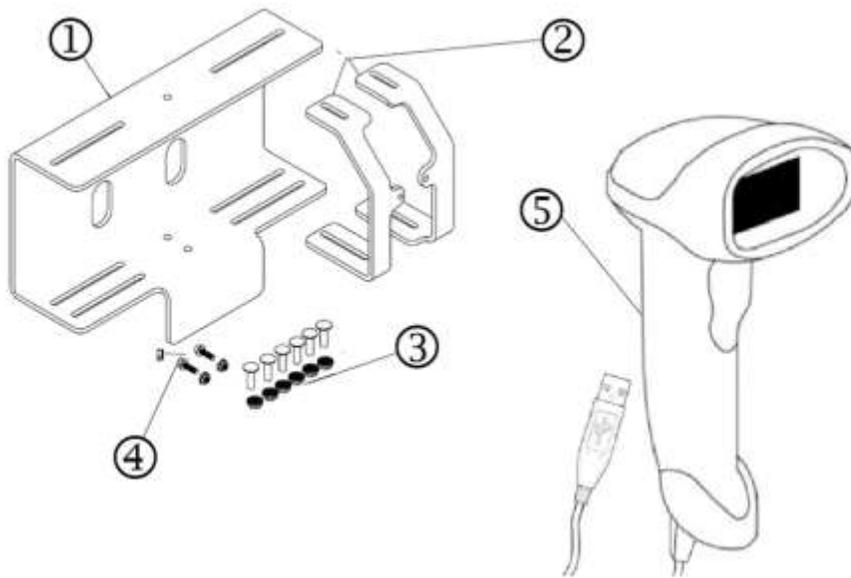
- * All Dealers: Do not discard or destroy the box containing the new passenger air bag inflator, it will be needed to return the used inflator. The box contains special instructions for the packaging and shipment of the used inflator. The instructions must be followed without exception. DO NOT DEPLOY ANY INFLATOR.

U.S. Dealers: Refer to pages 1-2 of the instructions included with the new inflator. The used inflator must be returned within 2 business days of its removal from an involved vehicle. The person packing and shipping the used inflator must have received hazardous material training as per section 1.7.4.1 of the GM Service Policies and Procedures Manual and the training records must be on file at your dealership.

Canada Dealers: Refer to pages 3-4 of the instructions included with the new inflator. Contact Crane Worldwide to pick up the used inflator within 2 business days of its removal from an involved vehicle.

SPECIAL TOOLS

Effective immediately, the Bar Code Scanner EL51378, which was previously sent to select dealers to inspect air bag serial numbers to determine whether they needed to be replaced, is no longer required. All front passenger air bag inflators must now be replaced. Note that dealers are still required to use the air bag mounting bracket, shown below, to perform the inflator replacement procedure. Failure to use the air bag mounting bracket could result in property damage or personal injury.



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- (1) Mounting Bracket (2) Support Bars (3) Support Bar Hardware (4) Air Bag Mounting Hardware (5) Bar Code Scanner - No Longer Required

SERVICE PROCEDURE

Note: Dealers are required to use the air bag mounting bracket to perform the front passenger air bag inflator replacement procedure. If your dealership does not have the air bag mounting bracket, provide courtesy transportation to the customer until an air bag mounting bracket is obtained and the required repair is completed. A list of the dealers that were shipped the special tools is available in the GM GlobalConnect Library. Check this list to identify a dealer in your area that has the tools and request to borrow the air bag mounting bracket. You're GM District Manager – Aftersales can also assist with obtaining the air bag mounting bracket if the tool is not locally available from another dealer.

Note: All involved vehicles are identified by Vehicle Identification Number on the Investigate Vehicle History screen in the GM Global Warranty Management system. Dealership service personnel should always check this site to confirm vehicle involvement prior to beginning any required inspections and/or repairs. It is important to routinely use this tool to verify eligibility because not all similar vehicles may be involved regardless of description or option content.

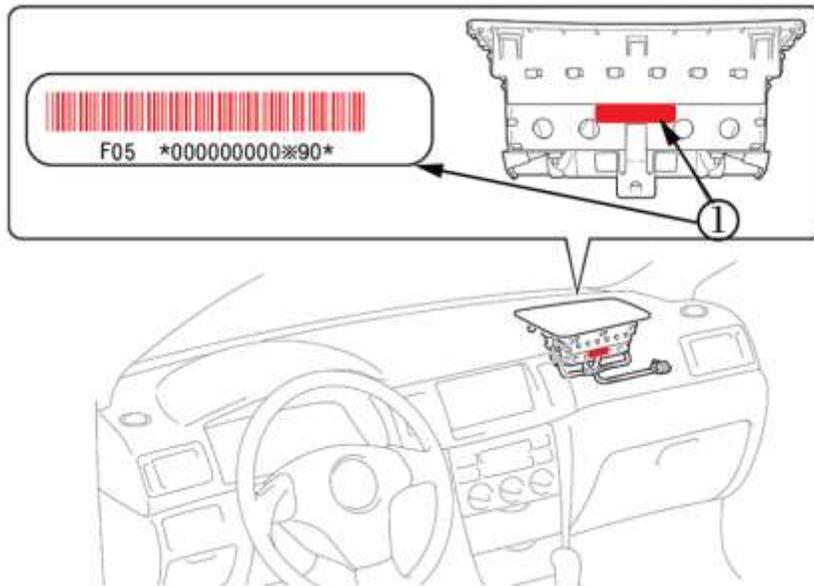
Note: This field action bulletin provides service repair and labor time information for replacing the passenger side air bag inflator module. Other repairs, if required, are to be billed under warranty, goodwill assistance or customer pay.

1. Connect the scan tool and determine if any diagnostic trouble codes (DTCs) have been set. Record set DTCs, if present, on the job card.
2. Remove the instrument panel (I/P) compartment. Refer to *Instrument Panel Compartment Replacement* in SI.
3. Disconnect cable from negative battery terminal. Refer to *Battery Negative Cable Disconnection and Connection* in SI.

Danger: Wait at least 90 seconds after disconnecting the cable from the negative battery terminal to prevent air bag and seat belt pretensioner deployment.

Caution: Avoid scratching or damaging the dashboard assembly. Place protective tape on the dashboard if needed.

4. Remove the instrument panel passenger air bag assembly. Refer to *Air bag Instrument Panel Module Replacement* in SI.
5. Place the air bag module on a clean work bench.



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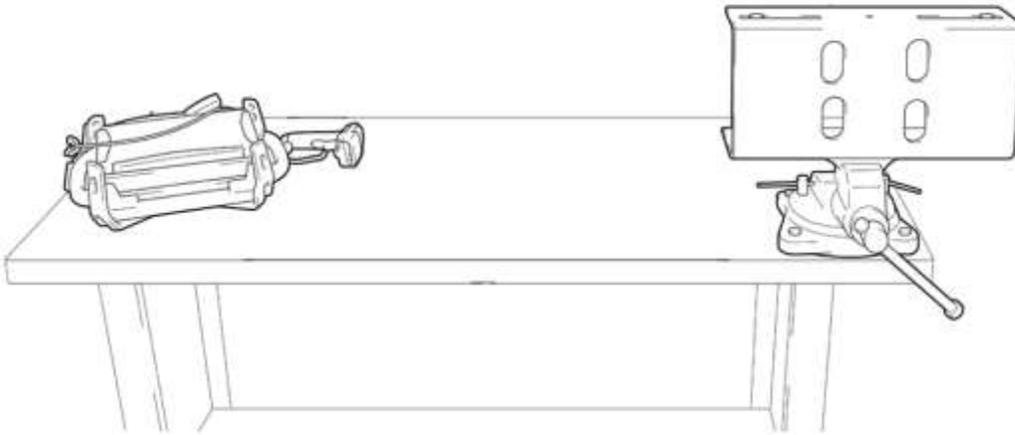
6. Locate passenger air bag bar code label (1). Refer to illustration.
7. Determine if an 'X' is present on the bar code label. The 'X', if present, will be located in the lower right-hand corner of the bar code label.
 - If an 'X' is NOT present, proceed to *Front Passenger Air bag Inflator Module Replacement* in this bulletin.
 - If an 'X' is present, the air bag module has already been repaired. Re-install the air bag module. Refer to *Air bag Instrument Panel Module Replacement* in SI. Proceed to step 25 in the *Front Passenger Air bag Inflator Module Replacement* section of this bulletin.

Safety Precautions

Warning: If an air bag system is not handled using proper procedures and methods, it may be activated accidentally during work resulting in a life-threatening serious accident. If the service procedure is NOT performed correctly, the system may fail to activate when needed. Be sure to perform the proper work safely and according to the instructions in this service procedure.

1. **Eliminate Static Electricity.** Before start of work, touch a metallic portion of the vehicle with a bare hand to discharge static electricity charged on your body.
2. **DO NOT Measure Resistance.** DO NOT measure resistance of air bag components. Measuring current of a circuit tester may cause accidental activation.
3. **Handle The Air Bag Properly.** If an inflator is dropped, replace it with a **NEW** inflator.
4. **DO NOT Allow Foreign Objects Near Air bag.** Collect and account for all removed nuts/bolts to prevent them from landing in the air bag assembly. Any foreign objects in the air bag assembly may cause damage or injury if the air bag is activated.
5. **Wear Protective Equipment.** Always wear appropriate protective equipment when working on the air bag.

Front Passenger Air bag Inflator Module Replacement

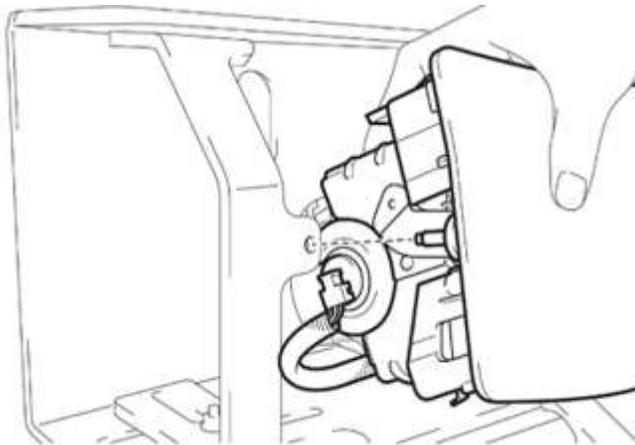


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Danger: To avoid personal injury or death, it is critical to use an air bag module bracket when replacing an inflator module. Carefully read and follow the instructions below:

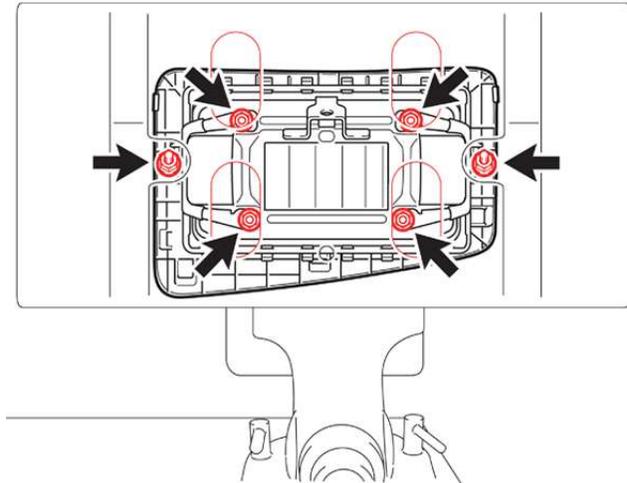
- Confirm the bracket assembly is installed securely in the vice.
- Confirm there are no loose objects or people exposed to the back side of the bracket for safety in the unlikely event of air bag deployment due to improper work procedures. The air bag is NOT being replaced due to an inadvertent deployment concern.
- Confirm that no objects, tools or people are within 3 feet (1 meter) of the back side of the bracket.
- Confirm that no objects, tools or people are within 2 feet (0.6 meters) of the sides of the bracket.
- BEFORE starting work and periodically while working on the air bag module, touch a metallic part of the work bench to discharge static electricity in the body.

1. Mount the air bag module bracket securely in a vice.



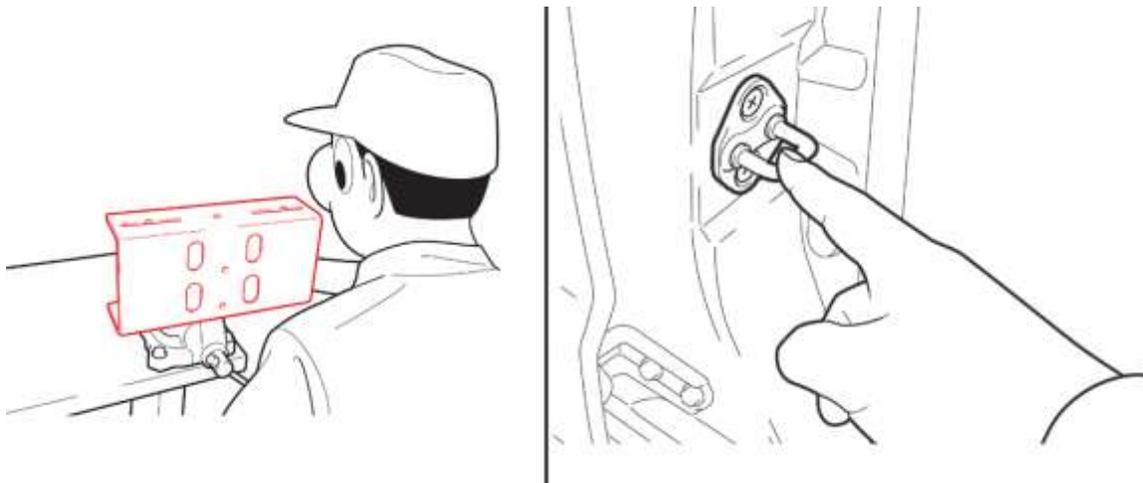
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2. Position the two mounting studs on the air bag assembly into the holes on the bracket support bars.



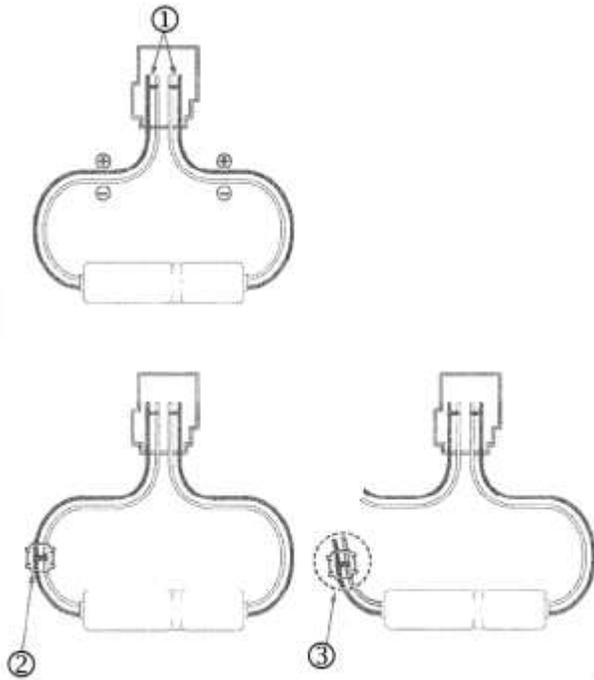
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3. Loosely install the air bag to the support bars with the nuts supplied in the bracket kit.
4. Position the air bag so that all four stopper plate nuts can be removed through the access holes.
5. Tighten the two nuts holding the air bag to the support bars.
6. Confirm the following steps have been completed BEFORE proceeding to the next step:
 - The mounting bracket is secure in the vise.
 - The air bag module is secured to the support bars of the bracket.
 - The support bars are secured on the mounting bracket using one (1) bolt/nut at the top of each support bar and two (2) nuts/bolts at the bottom of each support bar.



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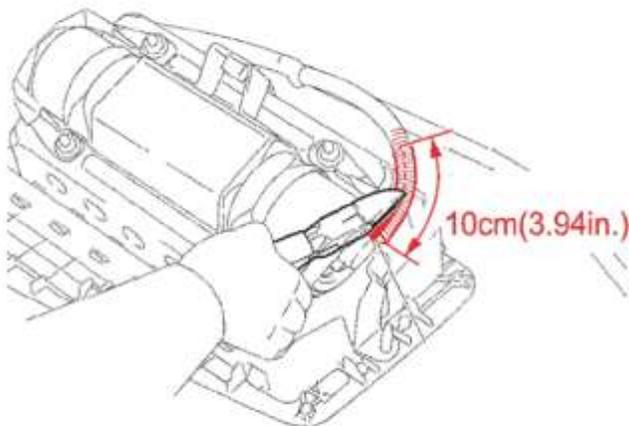
Danger: To avoid personal injury, *ALWAYS* keep as much of your body as possible in front of the bracket when working on the air bag assembly. Remember to periodically touch a metallic part of the vehicle or work bench to discharge static electricity in the body.



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Note: The connector of an air bag inflator has a short-circuiting mechanism that eliminates voltage difference when disconnected (1). To allow for the replacement of the inflator module, a new short circuit using an electro tap (2) **MUST** be created **BEFORE** cutting the wires (3) and removing the inflator.

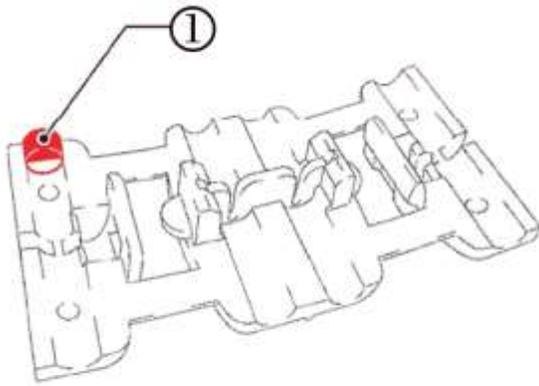
7. Create a short circuit before disconnecting the inflator wire harness.



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Caution: **DO NOT** damage the internal wires when cutting open the corrugate tube. **DO NOT** use a knife or razor blade to cut the tube to avoid damaging the wires. This step may be performed on either end if the inflator.

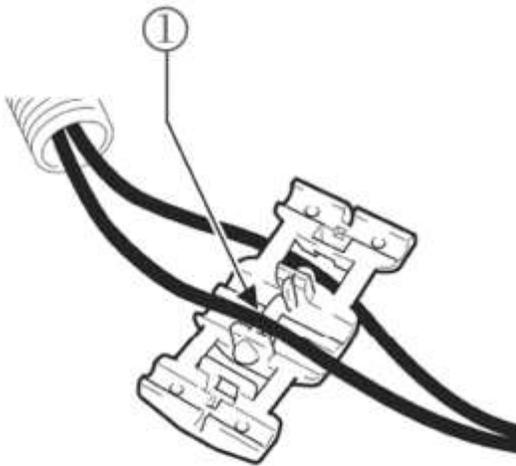
7.1 Cut open the corrugated tube on the yellow harness approximately 10 cm (4 in) using snippers.



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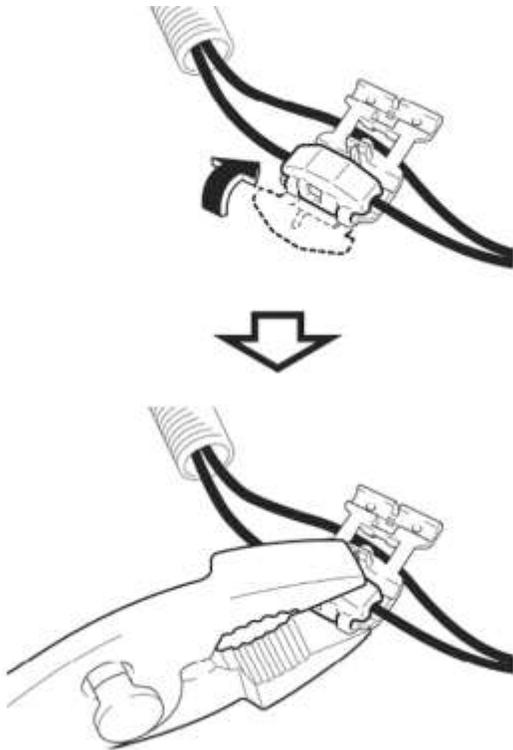
Danger: The tab on the electro tap must be removed to ensure a good short.

7.2 Cut off the tab of the electro tap (1) (included in the kit) shown in the illustration.



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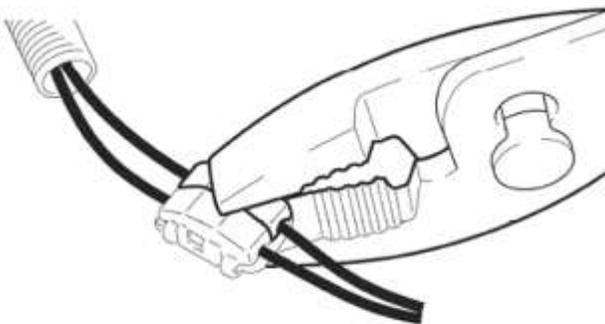
7.3 Short-circuit the two wires using the electro tap. Place one wire (1) in the electro tap as shown in the illustration.



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Note: Simultaneously working on the two wires tends to cause a mistake. Be sure to set the wire in the electro tap one wire at a time. Lock the electro tap firmly using pliers. If locked by hand, the electro tap may unfasten.

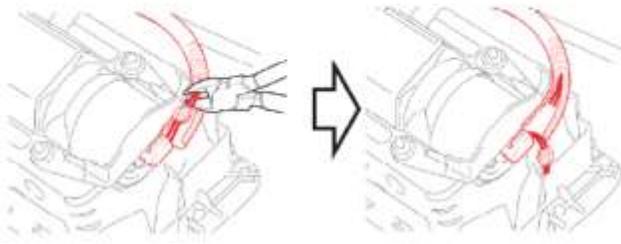
7.4 Fold and pinch the half of the electro tap where the first wire was just placed using pliers to lock firmly.



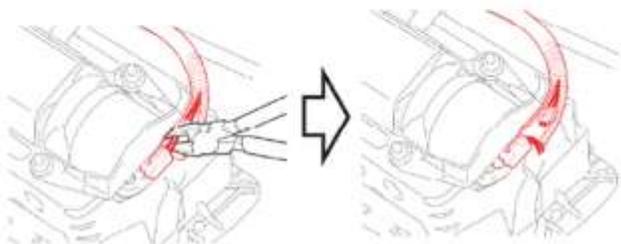
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7.5 Set the other wire in the electro tap and lock in a similar way with pliers.

OK

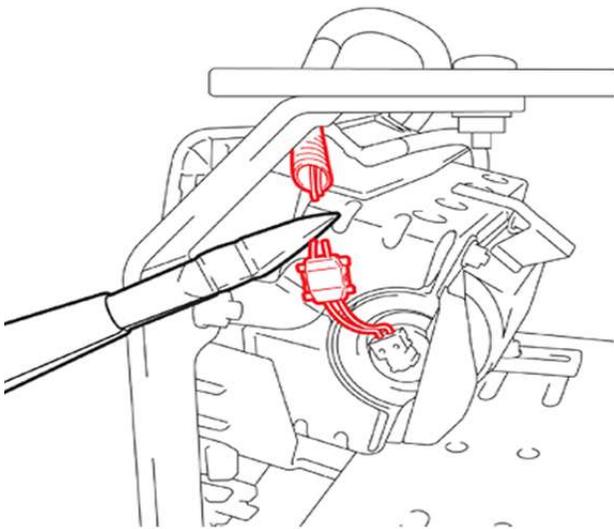


NG



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OK: Cut wires at opposite side to inflator. NG: Do NOT cut at inflator side.

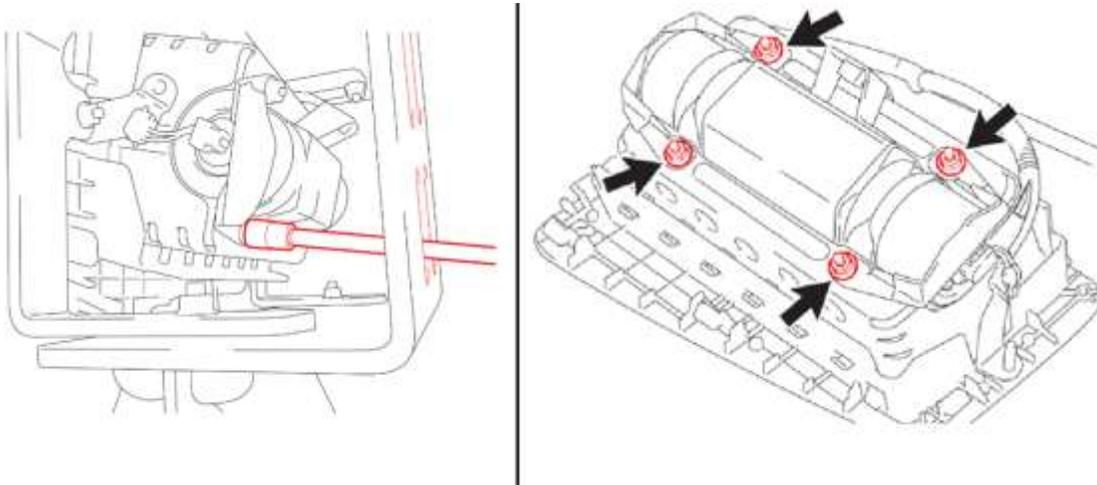


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Danger: Do NOT measure resistance of the inflator wires. This may cause accidental activation of the inflator.

Caution: Ensure to cut the two wires at the correct location. Refer to the illustration.

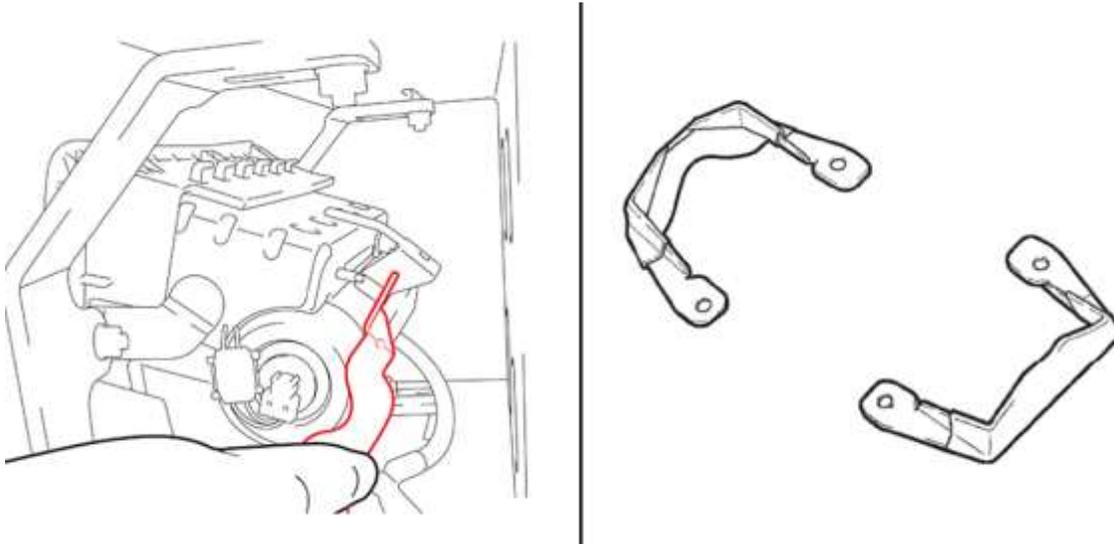
8. Cut the two wires at the side of the electro tap opposite to the inflator (the side of the electro tap that is farthest away from the inflator).



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

9. Use the access holes in the bracket to loosen and remove the four self-locking nuts.

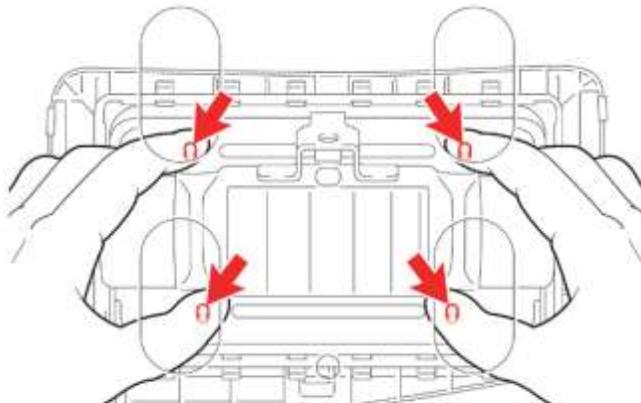


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10. Remove the stopper plates.

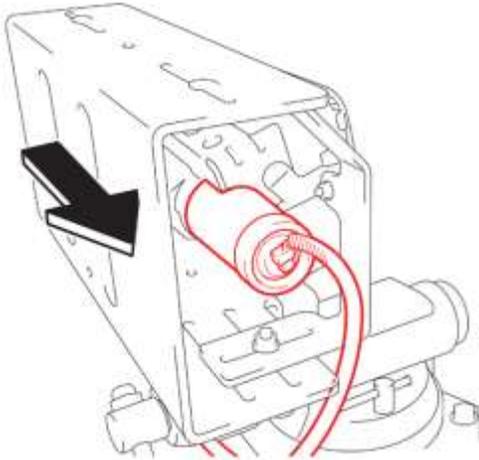
11. Discard the 4 nuts and 2 stopper plates as they are not to be reused.

12. Remove the inflator.



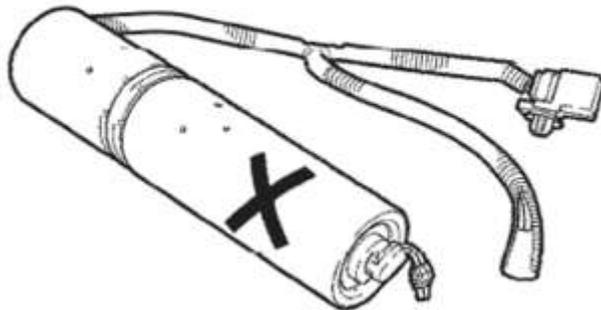
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12.1 Gently push in the 4 studs to loosen the inflator for removal.



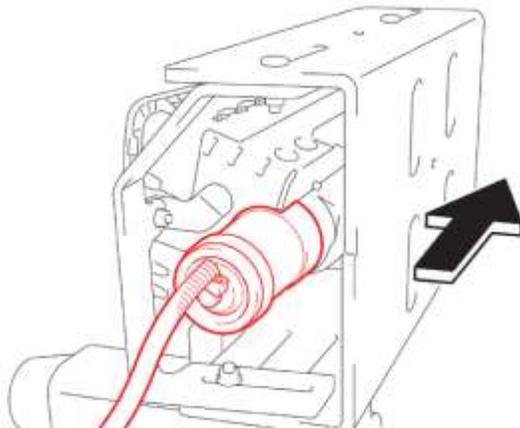
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12.2 Remove the inflator from the air bag assembly and place it on a safe work surface.



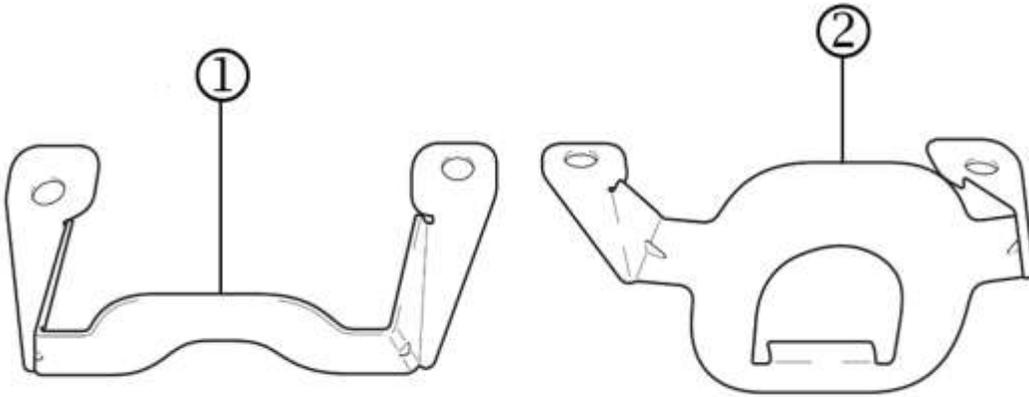
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12.3 Put a mark on the removed inflator and store it in the provided replacement part box. Refer to the packaging instructions that were included with the new inflator module kit.



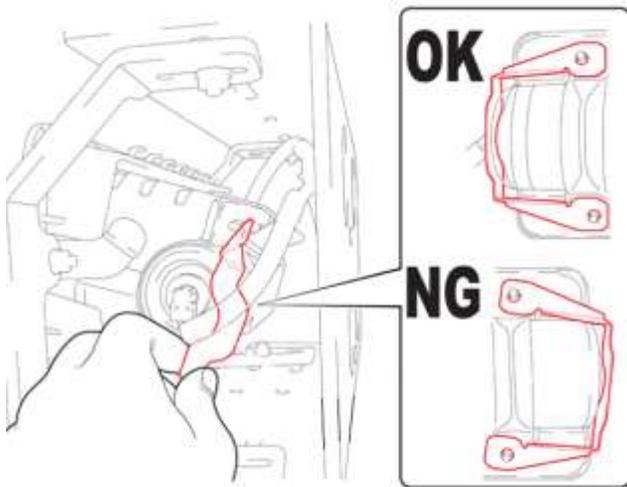
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13. Carefully slide the new inflator into the air bag assembly.



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14. Confirm the identification of the stopper and the position determining plate. **THEY ARE DIFFERENT.** Refer to the illustration: (1) Stopper Plate (2) Position Determining Plate.



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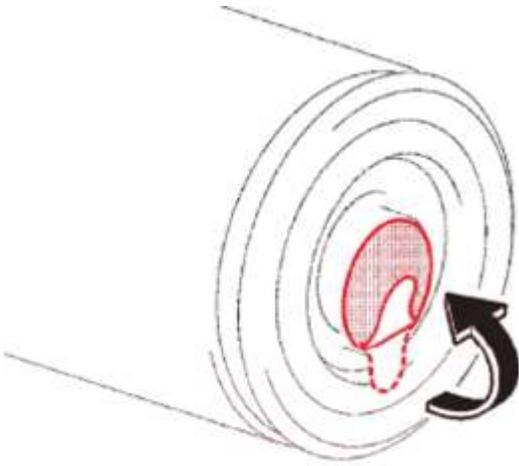
Warning: Confirm the stopper plate to inflator fitment is correct. **DO NOT** pinch the harness between the inflator and the stopper plate.

15. Loosely install a *new* stopper plate.

15.1 Place the **NEW** stopper plate on the air bag assembly on the side where the harness is already connected.

15.2 Confirm the end of the inflator sits flat against the stopper plate. If they do not align the inflator is installed backward.

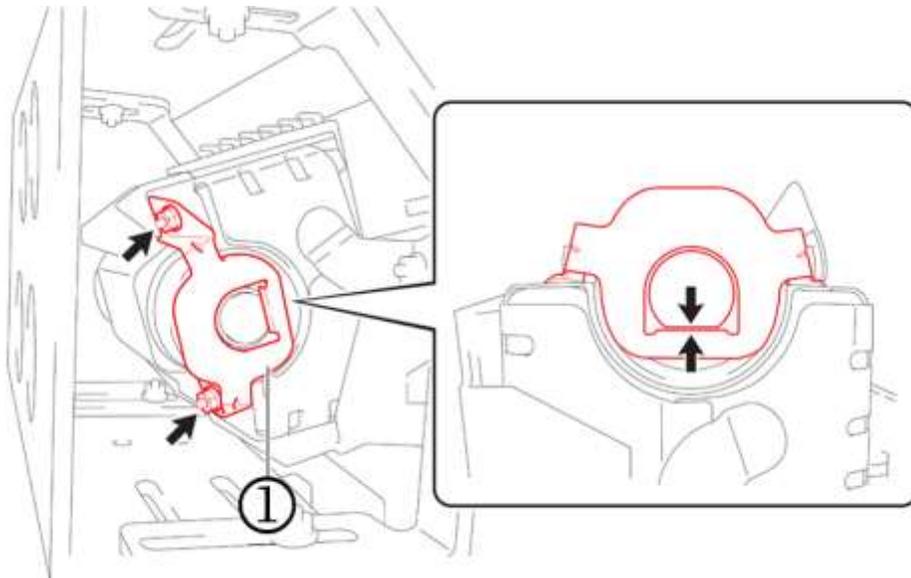
15.3 Install **NEW** stopper plate nuts by hand. They will be torqued on a later step.



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

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



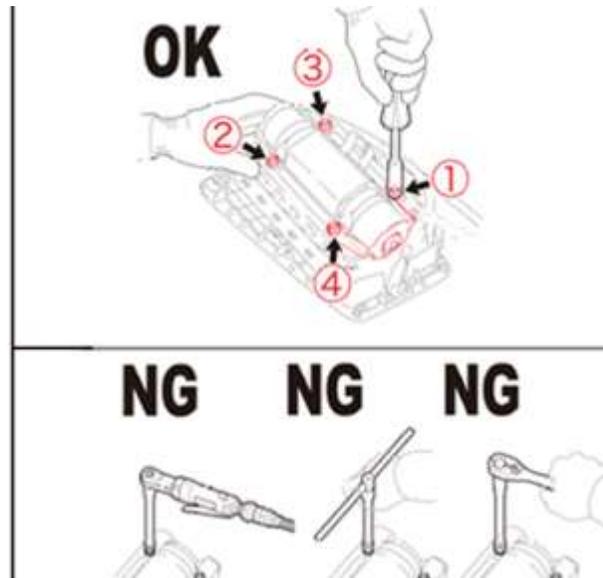
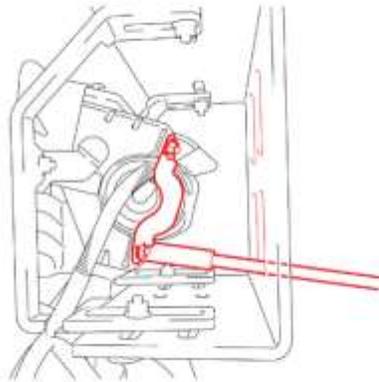
3610413

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

17. Install the *new* position determining plate.

17.1 Place the **NEW** position determining plate on the air bag assembly on the side with the connector seal.

17.2 Install **NEW** nuts by hand.

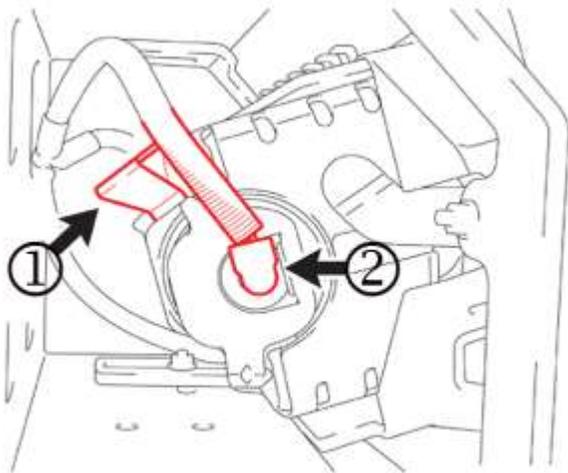


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Caution: There will be some resistance when tightening the nuts because they are self-locking. Confirm the nuts are tightened correctly. **DO NOT** use a power tool, T-handle, or ratchet when tightening the nuts to avoid over-torquing.

18. Tighten four (4) **NEW** plate nuts evenly in several increments in the order shown in the illustration using a 10 mm socket driver while pushing the inflator. (You will encounter some resistance during tightening because these nuts are self-locking nuts.)

Torque Specification: 3.9 Nm (35 in-lb)



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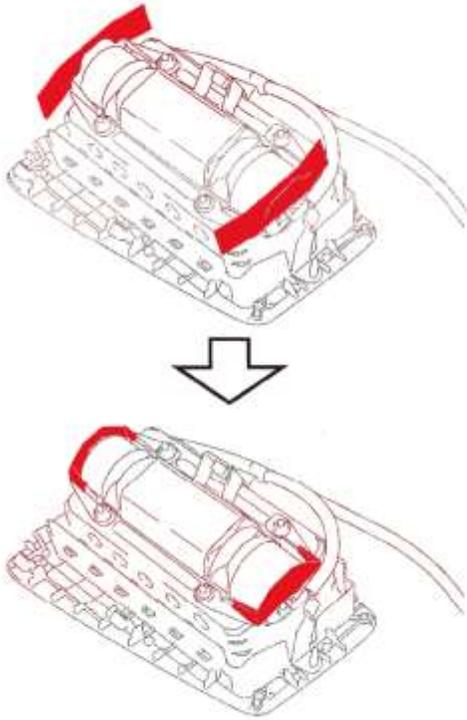
Warning: The connector should be connected **IMMEDIATELY** after removing the seal. Once the connector is installed it **CANNOT** be removed. If the connector is installed in the incorrect orientation the terminals may be bent or the connector may not fully engage.

19. Connect the inflator connector (2).

19.1 Remove the connector seal from the inflator.

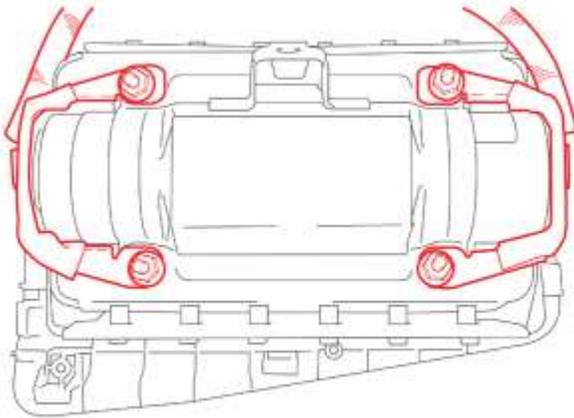
19.2 Confirm the alignment of the harness connector as shown in the illustration, and then connect the harness. The connector wires should lead toward the center mounting bracket (1) on the air bag assembly.

20. Remove the air bag assembly from the bracket by removing the two nuts and the air bag assembly. Place the air bag assembly on a cloth.



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



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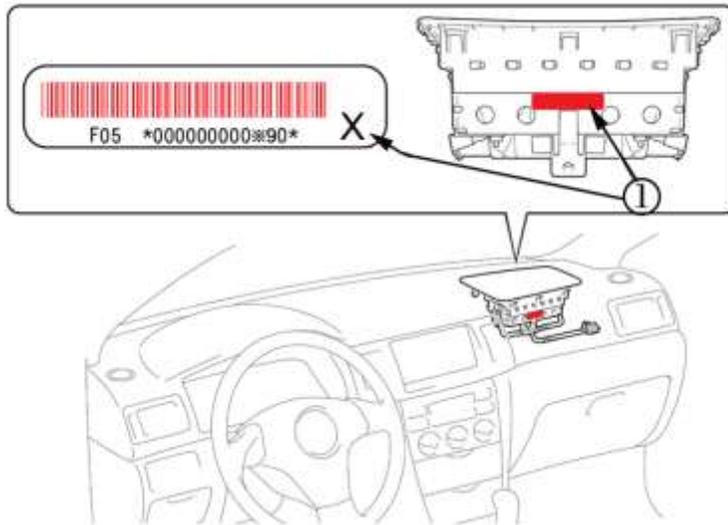
22. Inspect the air bag before installing it into the vehicle.

22.1 Confirm that the 4 **NEW** plate nuts are installed and tight.

22.2 Confirm the **NEW** stopper and position determining plates are installed.

22.3 Confirm the flats on the position determining plate and inflator are aligned.

22.4 Confirm the orientation of the inflator; the yellow wires should face the right side of the vehicle and the red wires should face the left side of the vehicle.



3610495

22.5 Using a pen or marker, put an 'X' in the lower right-hand corner of the air bag bar code label (1).

23. Install the instrument panel passenger air bag assembly. Refer to *Air bag Instrument Panel Module Replacement* in SI.

Note: This field action bulletin provides service repair and labor time information for replacing the passenger side air bag inflator module. Other repairs, if required, are to be billed under warranty, goodwill assistance or customer pay.

24. Connect scan tool and check for DTCs.

24.1 Clear DTCs, if present.

24.2 If DTCs are still present, record set DTCs on the job card.

25. Install the instrument panel (IP) compartment. Refer to *Instrument Panel Compartment Replacement* in SI.

WARRANTY TRANSACTION INFORMATION

Submit a transaction using the table below. All transactions should be submitted as a ZFAT transaction type, unless noted otherwise.

Labor Code	Description	Labor Time
9100125	Check Front Passenger Air Bag Inflator Bar Code Label For 'X' Indicator – Replacement Not Required	0.5
9100126	Replace Front Passenger Air Bag Inflator (Includes Checking Bar Code Label For 'X' Indicator)	1.1 *

* Includes 0.2 hour administrative allowance for return of the used inflator (document preparation and packaging).

CUSTOMER NOTIFICATION – For U.S. and Canada

General Motors will notify customers of this recall on their vehicle.

DEALER RECALL RESPONSIBILITY – For U.S. (U.S. States, Territories, and Possessions)

It is a violation of Federal law for a dealer to deliver a new motor vehicle or any new or used item of motor vehicle equipment (including a tire) covered by this notification under a sale or lease until the defect or noncompliance is remedied.

The U.S. National Traffic and Motor Vehicle Safety Act provides that each vehicle that is subject to a recall of this type must be adequately repaired within a reasonable time after the customer has tendered it for repair. A failure to repair within sixty days after tender of a vehicle is prima facie evidence of failure to repair within a reasonable time. If the condition is not adequately repaired within a reasonable time, the customer may be entitled to an identical or reasonably equivalent vehicle at no charge or to a refund of the purchase price less a reasonable allowance for depreciation. To avoid having to provide these burdensome remedies, every effort must be made to promptly schedule an appointment with each customer and to repair their vehicle as soon as possible. In the recall notification letters, customers are told how to contact the U.S. National Highway Traffic Safety Administration if the recall is not completed within a reasonable time.

DEALER RECALL RESPONSIBILITY – All

All unsold new vehicles in dealers' possession and subject to this recall must be held and inspected/repaired per the service procedure of this recall bulletin before customers take possession of these vehicles.

Dealers are to service all vehicles subject to this recall at no charge to customers, regardless of mileage, age of vehicle, or ownership, from this time forward.

Customers who have recently purchased vehicles sold from your vehicle inventory, and for which there is no customer information indicated on the dealer listing, are to be contacted by the dealer. Arrangements are to be made to make the required correction according to the instructions contained in this bulletin.

