



Recall Bulletin

SB-10056365-5257



PRODUCT EMISSION RECALL

SUBJECT: Improperly Crimped Accelerator Pedal Position Electrical Terminals

MODELS: 2014 Cadillac ATS

The Part Information section has been revised to allow ordering of the terminated lead from GMCCA. Please discard all copies of bulletin 14176A.

CONDITION

General Motors has decided to conduct a Voluntary Emission Recall involving certain 2014 model year Cadillac ATS vehicles. Some of these vehicles have a condition in which the electrical terminals are not properly crimped to the Accelerator Pedal Position (APP) circuits at the engine harness side of an inline electrical connector. If this occurs, Diagnostic Trouble Code (DTC) P2138 may set as a result of the associated high resistance, causing both traction and stability control systems to be disabled, reduced engine power mode operation, and the Malfunction Indicator Lamp (MIL) to illuminate.

CORRECTION

Dealers are to inspect the related APP terminals and solder them or replace them as required.

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 US and Canadian dealers through the GM GlobalConnect Recall Reports, or sent directly to export dealers. 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 (GMCC&A). Please refer to your “involved vehicles listing” before ordering parts. Normal orders should be placed on a DRO = Daily Replenishment Order. In an emergency situation, parts should be ordered on a CSO = Customer Special Order.

Part Number	Description	Quantity/Vehicle
19300636	WIRE,SPLICE (Terminated Lead)	As Needed / If Req'd
05297428	CLIP, WRG HARN SPLICE (merch pk of 10)	As Needed
*12355010	TUBING, SHRINK (1/8" BLACK) (merch pk of 10)	As Needed
**1089482	WOVEN POLYESTER ELECTRICAL TAPE (PET)	As Req'd (Submit in Net Item)

* Or equivalent heat shrink tubing.

** To obtain the PET, contact Kent Automotive at 1-888-YES-KENT (1-888-937-5368) and request the special order part number 1089482.

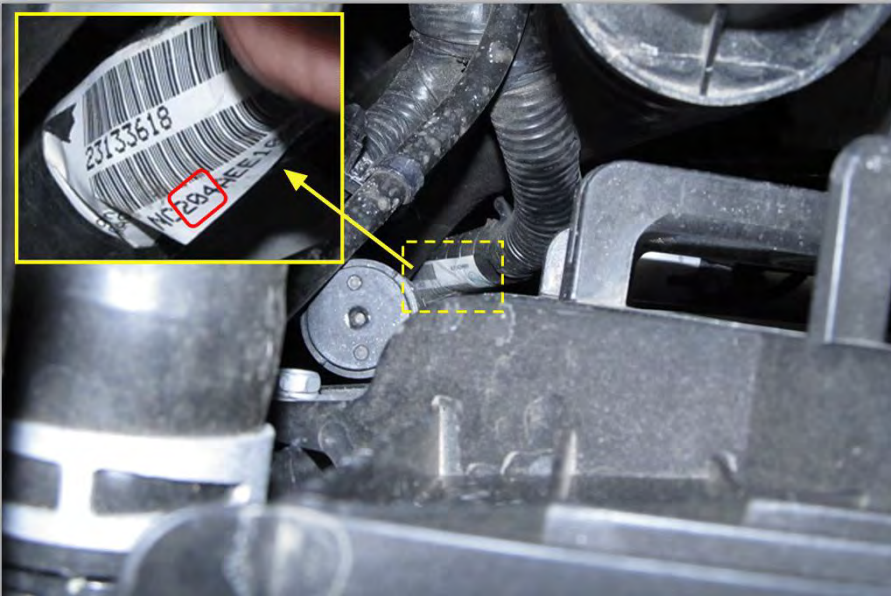
SERVICE PROCEDURE

Preliminary Inspection Procedure

1. Connect the vehicle to scan tool (GDS2) and check for DTC's.
2. Record the Julian three number date code which follows the “NC” starting letters on the engine harness tag as shown in the illustration below. Retain this number for further instruction later in the bulletin.
 - Date codes 182 thru 187 will require adding solder to all the gold plated terminal crimps in cavities 1 – 6. If any tin plated terminals are found in cavities 1 – 6, replace them with the gold plated terminated lead service part.
 - Date codes prior to 182 or after 187 will require inspection of the terminals found in cavities 1 – 6 to ensure that they are all gold plated. If any tin plated terminals are found in cavities 1 – 6, replace them with the gold plated terminated lead service part.

Note: The tag is located near the bottom right side of the radiator, reposition the forward engine harness to inspect the tag as shown in the photos below. On four cylinder engine vehicles, the tag can be seen from the top with the hood open. For six cylinder engine vehicles, you will not be able to visually access the label/tag (1) from the top engine compartment. Tags on six cylinder engine vehicles will have to be inspected after vehicle is raised on a hoist and the wheelhouse liner is removed.

Tag and Date Code as Viewed from Top on a Four Cylinder Vehicle



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Tag (1) as Viewed from Bottom on a Six Cylinder Vehicle

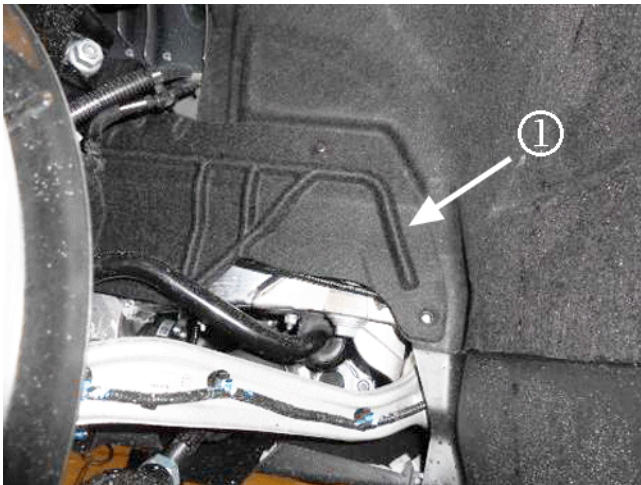


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3. Position the vehicle in a stall with a hoist and disconnect the negative battery cable. Refer to *Battery Negative Cable Disconnection and Connection* in SI.



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4. Remove the right front wheelhouse liner (1). Refer to *Front Wheelhouse Liner Replacement* in SI.

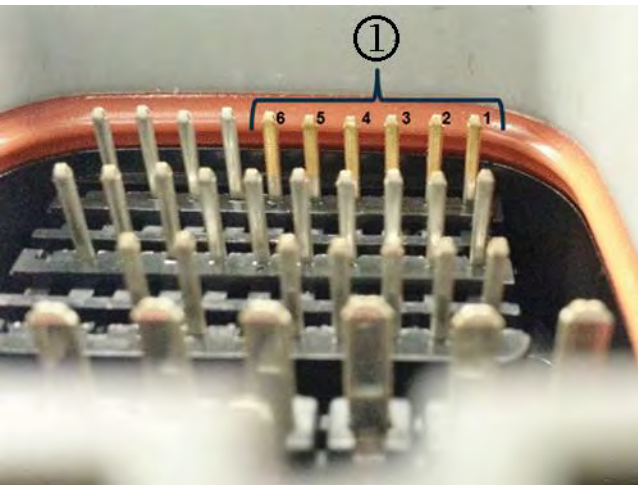


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5. Locate the X150 inline body to engine harness connector (black with grey lever lock).

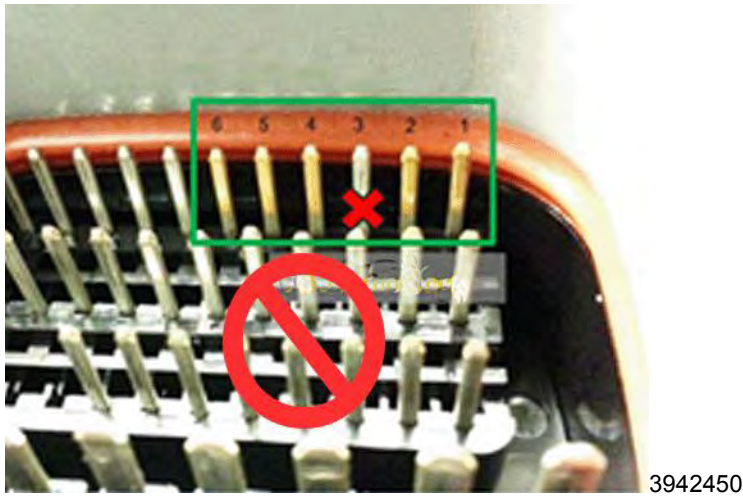


6. Disengage the connector from the wheelhouse by reaching behind it, placing the head of a small screwdriver under the tab (1) and carefully twisting to lift the tab. Pull the connector rearward to release the slotted feature (2) from the tab.



Caution: The Accelerator Pedal Position (APP) sensor circuits are cavities 1 through 6 within the X150 connector. All six terminals for APP must be gold plated.

7. Disconnect the connector and inspect the engine-side (male) terminals, 1 through 6 (1). As shown in the graphic above, the six terminals are gold and the surrounding terminals are tin.
 - If the Julian date code is **outside** the 182 – 187 range AND all six terminals are gold plated, no further action is required. Proceed to *Reassembly Procedure* below.



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- If the Julian date code is **outside** the 182 – 187 range AND any tin plated terminals are found (like example shown in third terminal above), proceed to *Terminated Lead Replacement Procedure* below.
- If the Julian date code is **within** the 182 – 187 range AND all six terminals are gold plated, proceed to *Solder Terminal Crimps Repair Procedure* below.
- If the Julian date code is **within** the 182 – 187 range AND any tin plated terminals are found, solder the gold terminals and replace any tin terminals with a gold terminated lead. Follow first the *Terminated Lead* procedure, then the *Solder Terminal Crip* procedure below.

Terminated Lead Replacement Procedure



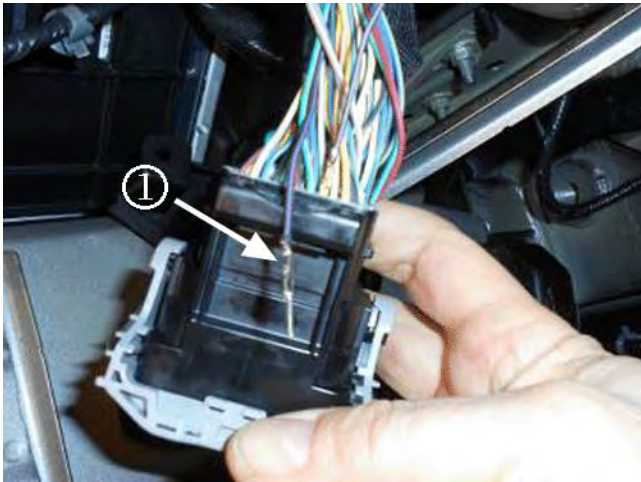
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1. On the engine-side harness (with male terminals), remove the white Terminal Position Assurance (TPA) from the connector. The TPA has a friction fit, and will pull out with needle nose pliers.



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2. To gain access to the wires, pull the harness cover back and carefully remove approximately 102 – 127 mm (4 – 5 in) of spiral wrapped tape under the cover.



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3. Using a pick (J-38125-11A), or equivalent tool, carefully back out the incorrect tin plated terminal (1) from the connector housing.



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4. Place the replacement gold terminated lead (1) into the connector cavity where the incorrect terminal was removed. Ensure that the terminal is fully inserted into the connector, until it clicks using the push-click-pull method.



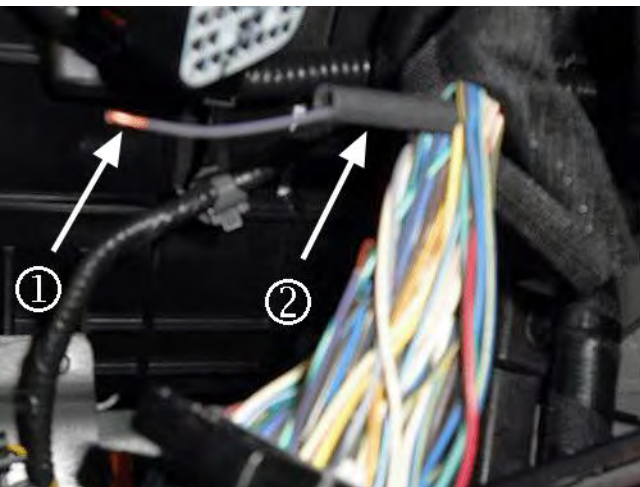
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5. Cut off approximately 76 mm (3.0 in) of the end of the tin plated terminal.



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6. Cut off the extra terminated lead wire, leaving an approximate 102 – 127 mm (4 -5 in) length or enough to overlap the existing wire.

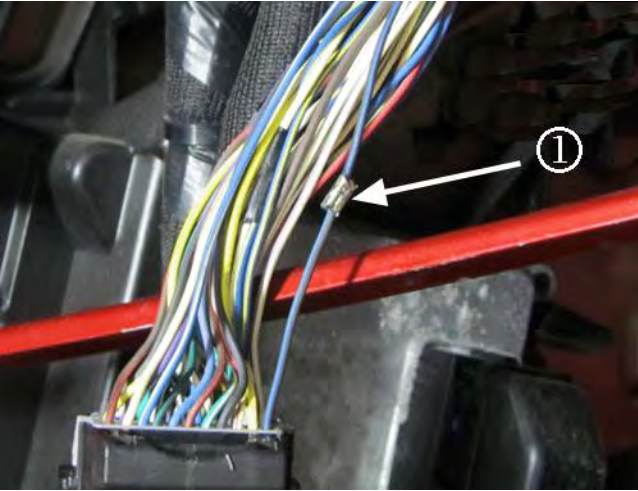


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7. Remove 13 mm (1/2 in) of insulation from the ends of both the harness wire (1) and the replacement terminated lead.

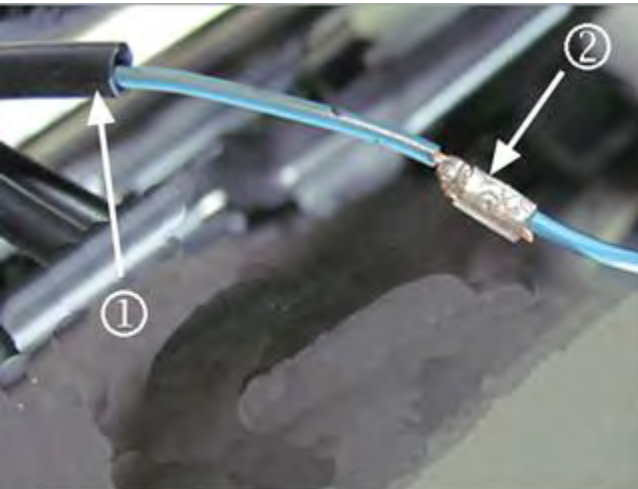
Caution: Use only wiring harness splice clip P/N 05297428 in combination with heat shrink tube, P/N 12355010, or an equivalent flexible adhesive-lined/moisture resistant heat shrink tube to perform the repair in this bulletin.

8. Install one 38 mm (1.5 in) section of heat shrink tube (2) over the harness wire.



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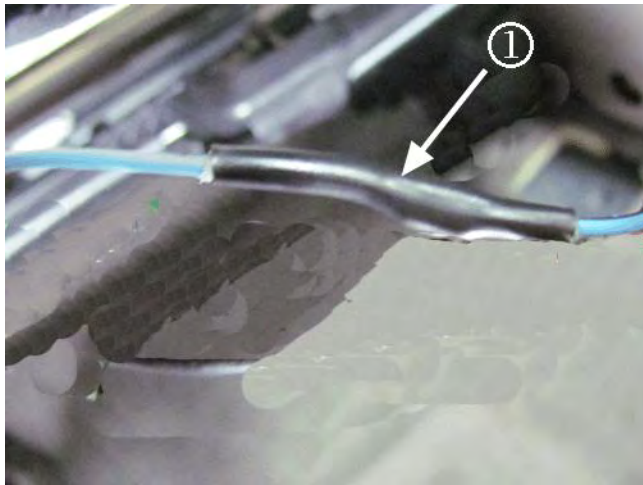
9. Fold the 13 mm (1/2 in) ends of exposed copper on both wires over each other. Crimp the splice clip (1) over the wires using Special Tool J-38125-8, crimp nest F.
10. Inspect the crimp quality.



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Caution: Keep the heat shrink tube (1) above the splice when soldering the splice (2) to ensure that the heat shrink is not prematurely shrunk and closed down over the wire or splice area due to the heat from the soldering iron.

11. Solder the crimp and splice clip using the Ultratorch, part number J-38125-5A, or another butane fueled soldering iron.



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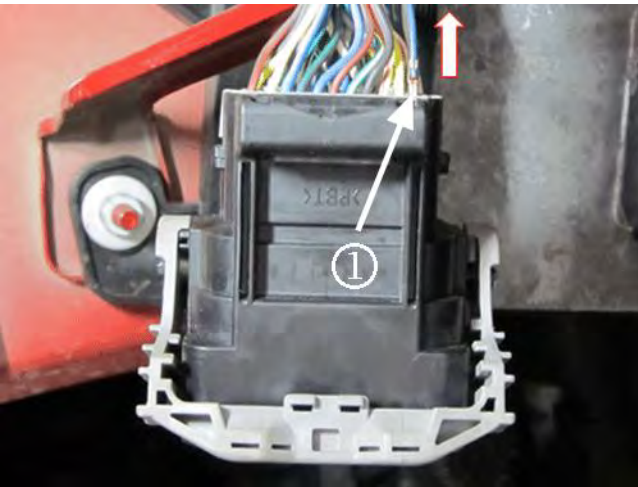
12. Center the heat shrink tube (1) over the splice and use the Ultratorch, part number J-38125-5A, or another butane fueled soldering iron, to shrink and seal the heat shrink tube securely over the splice crimp and insulated wires.
13. Repeat steps 3 - 12 for any other tin plated terminals found.
14. If soldering of gold plated terminals is necessary, proceed to *Solder Terminal Crimps Repair Procedure* below. If not, proceed to *Reassembly Procedure* below.

Solder Terminal Crimps Repair Procedure



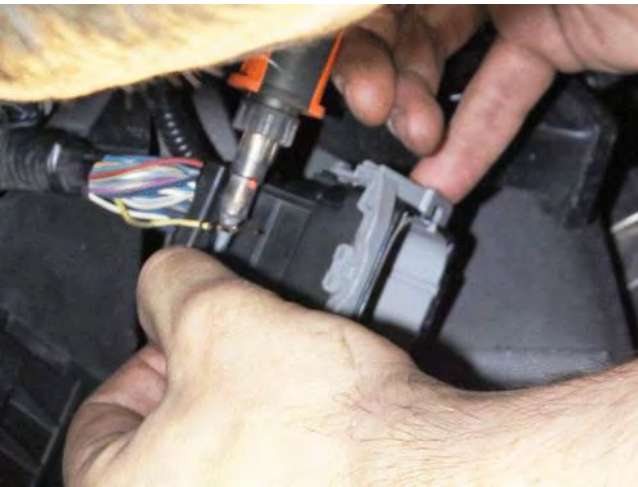
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1. If not previously removed, remove the white Terminal Position Assurance (TPA) from the connector. The TPA has a friction fit, and will pull out with needle nose pliers.



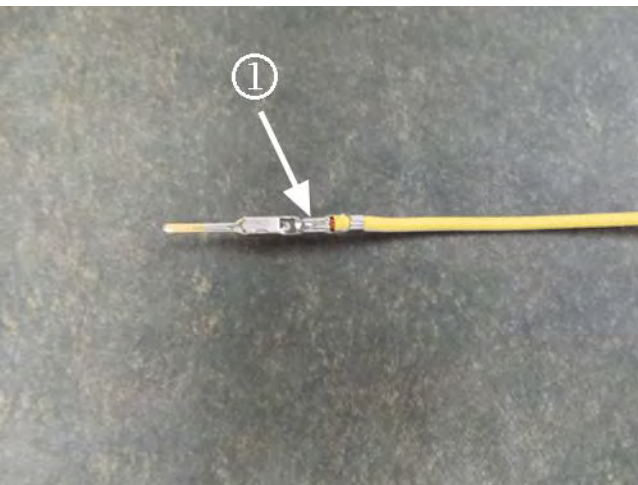
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2. Working on one terminal at a time, use a pick (J-38125-11A), or equivalent tool, to carefully back out the gold plated terminal (1) from the connector housing.



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3. Apply solder to the terminal crimp.



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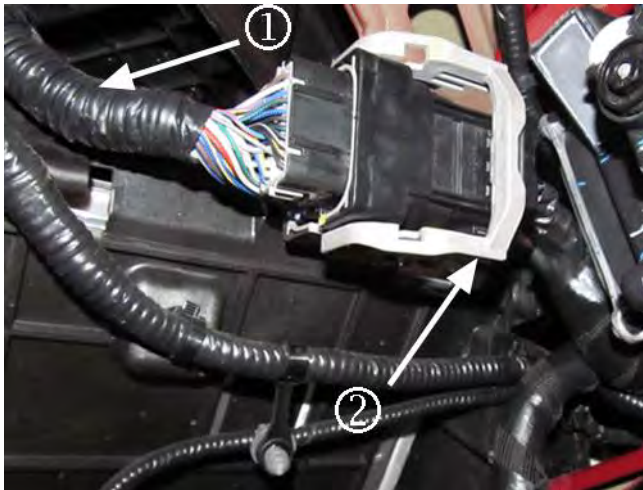
Caution: Use a small amount of solder (1) and verify the solder flows into the crimped bare wire end.

4. Verify the quality of each terminal solder.
5. Reinstall the gold plated terminal into the connector cavity. Ensure that the terminal is fully inserted into the connector, until it clicks using the push-click-pull method.

- Repeat steps 2 – 4 as necessary for all additional **original** gold plated terminals within the 1 – 6 cavities.
- Once all tin plated terminals are replaced AND all remaining original gold terminals are soldered, proceed to *Reassembly Procedure* below.

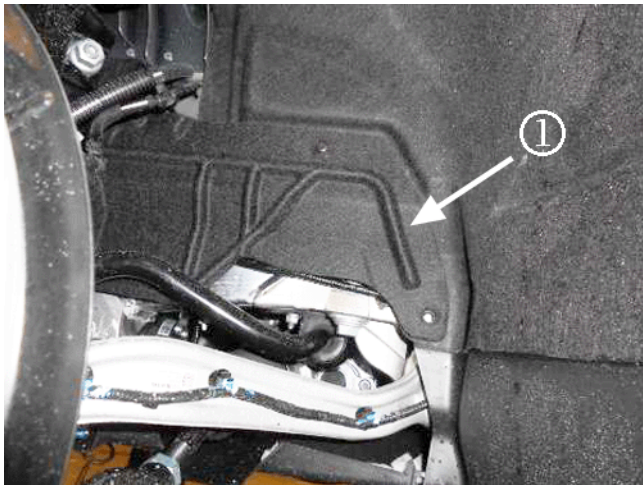
Reassembly Procedure

- Reinstall the white Terminal Position Assurance (TPA) to the connector, ensuring that it is fully seated by listening for an audible click.



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- Wrap woven polyester electrical tape (PET) or equivalent anti-abrasion tape (1) around the spliced section of the wires.
- Reconnect the X150 connector and lock the lever (2) into place, listening for the audible click.



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- Reinstall the right front wheelhouse liner (1). Refer to *Front Wheelhouse Liner Replacement* in SI.
- Reconnect the negative battery cable. Refer to *Batter Negative Cable Disconnection and Connection* in SI.
- Connect the vehicle to scan tool (GDS2) and clear any DTC's.
- Program the window motor relearn. Refer to *Window Motor Programming – Express Function* in SI.

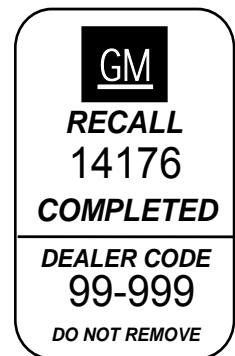
8. **CALIFORNIA, CONNECTICUT, DELAWARE, MARYLAND, MASSACHUSETTS, MAINE, OREGON, VERMONT, & WASHINGTON VEHICLES ONLY:** Install a Recall Identification Label. Also, for California vehicles complete a “Proof of Correction” certificate upon recall completion.

RECALL IDENTIFICATION LABEL - California/Connecticut/Delaware/Maryland
Massachusetts/Maine/Oregon/Vermont/Washington
Vehicles Only

Place a Recall Identification Label on each vehicle corrected in accordance with the instructions outlined in this Product Recall Bulletin. Each label provides a space to include the recall number and the five-digit dealer code of the dealer performing the recall service. This information may be inserted with a ballpoint pen.

Put the Recall Identification Label on a clean and dry surface of the radiator core support in an area that will be visible to people servicing the vehicle.

When installing the Recall Identification Label, be sure to pull the tab to allow adhesion of the clear protective covering. Additional Recall Identification Labels for US dealers can be obtained from Dealer Support Materials by ordering on the web from DWD Store, www.gmglobalconnect.com, and then click on the DWD Store link. Request Item Number S-1015 when ordering.



COURTESY TRANSPORTATION – For US and Canada

The General Motors Courtesy Transportation program is intended to minimize customer inconvenience when a vehicle requires a repair that is covered by the New Vehicle Limited Warranties. The availability of courtesy transportation to customers whose vehicles are within the warranty coverage period and involved in a product program is very important in maintaining customer satisfaction. Dealers are to ensure that these customers understand that shuttle service or some other form of courtesy transportation is available and will be provided at no charge. Dealers should refer to the General Motors Service Policies and Procedures Manual for Courtesy Transportation guidelines.

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	Net Item
9100663	Inspect Harness Tag & Terminals Only - No Repairs Required	0.6	
9100664	Inspect Harness Tag & Replace One Tin Terminal and/or Solder All Terminals	0.8	*
ADD	Replace Each Additional Tin Terminal	0.1	

* The amount identified in “Net Item” should represent the actual sum total of the current GMCC&A Dealer net price for the PET needed to perform the required repairs, not to exceed \$0.25 USD, \$0.28 CAD, plus applicable Mark-Up or Landed Cost (for Export).

CUSTOMER NOTIFICATION – For US and Canada

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

In order to ensure full protection under the emission warranty, and the right to participate in future recalls, the customer notification letter recommends that customers have their vehicles serviced as soon as possible. It also advises that failure to do so could legally be determined to be lack of proper maintenance.

CUSTOMER NOTIFICATION - For Export Only

Letters will be sent to known owners of record located within areas covered by the US National Traffic and Motor Vehicle Safety Act. For owners outside these areas, dealers should notify customers using the attached sample letter.

In order to ensure full protection under the emission warranty, and the right to participate in future recalls, the customer notification letter recommends that customers have their vehicles serviced as soon as possible. It also advises that failure to do so could legally be determined to be lack of proper maintenance.

DEALER RECALL RESPONSIBILITY

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. A copy of the customer letter is provided in this bulletin for your use in contacting customers. Recall follow-up cards should not be used for this purpose, since the customer may not as yet have received the notification letter.

In summary, whenever a vehicle subject to this recall enters your vehicle inventory, or is in your dealership for service in the future, you must take the steps necessary to be sure the recall correction has been made before selling or releasing the vehicle.

*****THE FOLLOWING 2 PARAGRAPHS ARE NOT FOR CANADA OR EXPORT*****

When a California emissions recall is completed by a GM dealer, the dealer must provide the vehicle owner a "Proof of Correction Certificate" which the owner may need to present to the California Department Of Motor Vehicles (DMV) when renewing their vehicle registration. Without this correction certificate, the owner may be unable to renew their vehicle registration.

Additional Certificates can be obtained, at no charge, from Dealer Support Materials by ordering on the web from the DWD Store, www.gmdealerworld.com, and then click on the DWD Store link; request GM Item Number 1825 when ordering.



August 2014

Dear General Motors Customer:

This notice is sent to inform you that General Motors is conducting a Voluntary Emission Recall involving your 2014 model year Cadillac ATS vehicle.

Reason for This Recall: Some of these vehicles have a condition in which the electrical terminals are not properly crimped to the Accelerator Pedal Position (APP) circuits at the engine harness side of an inline electrical connector. If this occurs, Diagnostic Trouble Code (DTC) P2138 may set as a result of the associated high resistance, causing both traction and stability control systems to be disabled, reduced engine power mode operation, and the Malfunction Indicator Lamp (MIL) to illuminate.

What Will Be Done: Your GM dealer will inspect the related APP terminals and solder them or replace them as required. This service will be performed for you at **no charge**.

What You Should Do: Please contact your GM dealer as soon as possible to arrange a service date and to assure parts availability. Instructions for making this correction have been sent to your dealer. Please ask your dealer if you wish to know how much time will be needed to schedule, process, and repair your vehicle.

If you have any questions or need any assistance, just contact your dealer or the appropriate Customer Assistance Center at the number listed below.

Division	Number	Text Telephones (TTY)
Cadillac	1-800-458-8006	1-800-833-2622
Guam	65-6267-1752	
Puerto Rico – English	1-800-496-9992	
Puerto Rico – Español	1-800-496-9993	
Virgin Islands	1-800-496-9994	

Emission Law Information: In order to ensure your full protection under the emission warranty made applicable to your vehicle by state and federal law, and your right to participate in future recalls, it is recommended that you have your vehicle serviced as soon as possible. Failure to do so could legally be determined to be lack of proper maintenance of your vehicle. Also, your vehicle may fail a state or local emission inspection if this recall is not accomplished.

IMPORTANT MESSAGE FOR CALIFORNIA RESIDENTS

The California Air Resources Board (CARB) requires vehicle emission recalls be completed prior to California registration renewal. Uncorrected emission recalls will result in the inability to renew your California vehicle registration.

At the time of emission recall completion, your California dealer will issue a "Proof of Correction Certificate". Keep this certificate and, if required, present it to the Department of Motor Vehicles when renewing your California registration as proof of recall completion.

We are sorry to cause you this inconvenience; however, we have taken this action in the interest of your continued satisfaction with our products.

Jim Moloney
General Director,
Customer and Relationship Services

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