



# Service Bulletin



## SPECIAL COVERAGE

**SUBJECT:** Special Coverage Adjustment – Throttle Position Sensor Replacement

**MODELS:** 2008-2010 Cadillac Escalade, Escalade ESV, Escalade EXT  
2008-2009 Chevrolet TrailBlazer  
2008-2010 Chevrolet Avalanche, Express, Silverado, Suburban, Tahoe  
2009-2010 Chevrolet Colorado  
2008-2009 GMC Envoy  
2008-2010 GMC Savana, Sierra, Yukon, Yukon XL  
2009-2010 GMC Canyon  
2008-2009 HUMMER H2  
2008-2010 HUMMER H3  
2009-2010 HUMMER H3T  
Equipped with V8 Engine (LFA, LY2, L20, LMG, LC9, LH6, LMF, LH8, LH9, L76, LS2, LY5, LY6, L92, L96, LZ1, L94, L9H)

Customers involved in this Special Coverage will be notified in phases. The first phase will include customers with 2008 model year vehicles.

### CONDITION

On some 2008-2009 Chevrolet TrailBlazer; GMC Envoy; HUMMER H2; 2008-2010 Cadillac Escalade, Escalade ESV, Escalade EXT; Chevrolet Avalanche, Express, Silverado, Suburban, Tahoe; GMC Savana, Sierra, Yukon, Yukon XL; HUMMER H3; 2009-2010 Chevrolet Colorado; GMC Canyon; and HUMMER H3T vehicles, equipped with a V8 engine, the throttle position sensor may cause the engine to run rough and cause the malfunction indicator lamp and/or an Engine Reduced Power message to illuminate. If this occurs, it could result in reduced engine power.

### SPECIAL COVERAGE ADJUSTMENT

This special coverage covers the condition described above for a period of 10 years or 120,000 miles (193,000 km), whichever occurs first, from the date the vehicle was originally placed in service, regardless of ownership.

Dealers are to replace the throttle position sensor and reprogram the Engine Control Module. The repairs will be made at no charge to the customer.

For vehicles covered by Vehicle Service Contracts, all eligible claims with repair orders on or after September 21, 2012, are covered by this special coverage and must be submitted using the labor operation codes provided with this bulletin. Claims with repair orders prior to September 21, 2012, must be submitted to the Service Contract provider.

### VEHICLES INVOLVED

All involved vehicles are identified by Vehicle Identification Number on the Applicable Warranties section 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.

### PART INFORMATION

Parts required to complete this special coverage are to be obtained from General Motors Customer Care and Aftersales (GMCC&A).

Part Number	Description	Quantity/Vehicle
19259452	SENSOR KIT, THROT POSN	1

### SERVICE PROCEDURE

**Caution:** Handle the electronic throttle control components carefully. Use cleanliness in order to prevent damage. Do not drop the electronic throttle control components. Do not roughly handle the electronic throttle control components. Do not immerse the electronic throttle control components in cleaning solvents of any type.

**Warning:** Approved safety glasses and gloves should be worn when performing this procedure to reduce the chance of personal injury.

1. With a scan tool, verify that DTC P2135 is set as Current or in History.
  - If DTC P2135 is set as Current or in History, proceed to Step 2 and perform the service procedure in this bulletin.
  - If DTC P2135 is NOT set as Current or in History, refer to Diagnostic Trouble Code (DTC) List - Vehicle or Symptoms - Engine Controls in SI. Determine cause of condition. Repairs, if required, are NOT covered by the labor operation codes in this bulletin. Bill repair under warranty, goodwill assistance or customer pay.
2. Turn OFF the ignition.
3. Open the hood.

**Note:** If at any time during this procedure the throttle body is dropped, abort this procedure and REPLACE it with a new throttle body assembly.

4. Remove the throttle body and discard the throttle body gasket. Refer to *Throttle Body Assembly Replacement* in SI.
5. Remove any loose debris and dirt from the throttle body assembly and the TP sensor cover. Inspect the throttle body for damage.

**Caution:** Do not use any solvent that contains Methyl Ethyl Ketone (MEK). This solvent may damage fuel system components.

6. Clean the throttle body bore and the throttle plate using a clean shop towel with GM Top Engine Cleaner, P/N 1052626 (in Canada, P/N 993026), or AC-Delco Upper Engine and Fuel Injector Cleaner, P/N X66-P, or an equivalent product.



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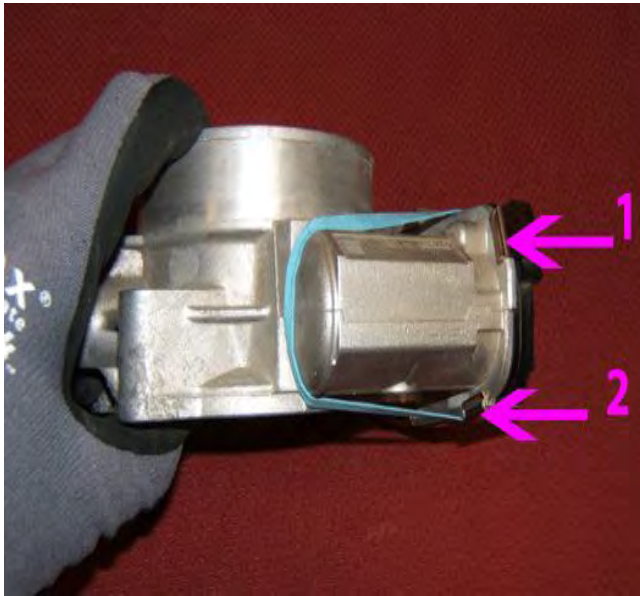
**Note:** DO NOT mount the throttle body in a vise. The throttle body can be set on the top of a soft protected workbench area.

7. Hold the throttle body with your hand, so that the throttle position (TP) sensor cover is facing upward as shown.



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8. Secure a rubber band around the throttle body and TP sensor cover as shown.



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9. Turn over the throttle body and use a flathead screwdriver to remove the two clips (1, 2) as shown. Discard the clips.



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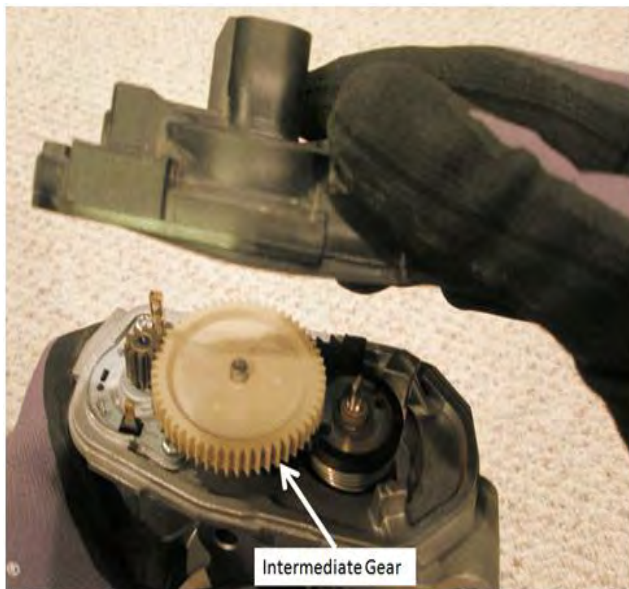
**Caution:** Do NOT pry on the machined sealing surface of the throttle body inlet duct.

10. Turn over the throttle body and use a flathead screwdriver to remove the four remaining clips from the TP sensor cover. Discard the clips.



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11. Hold the throttle body with your hand, so that the TP sensor cover is facing upward. Grasp the TP sensor cover and carefully lift it up and separate it from the throttle body.



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**Note:** DO NOT allow the intermediate gear to fall out.

12. Maintain the throttle body in an upward position. Use your thumb to maintain contact with the intermediate gear.
  - If the intermediate gear falls out and impacts a hard workbench surface or the floor, abort this procedure and REPLACE with a new throttle body assembly.



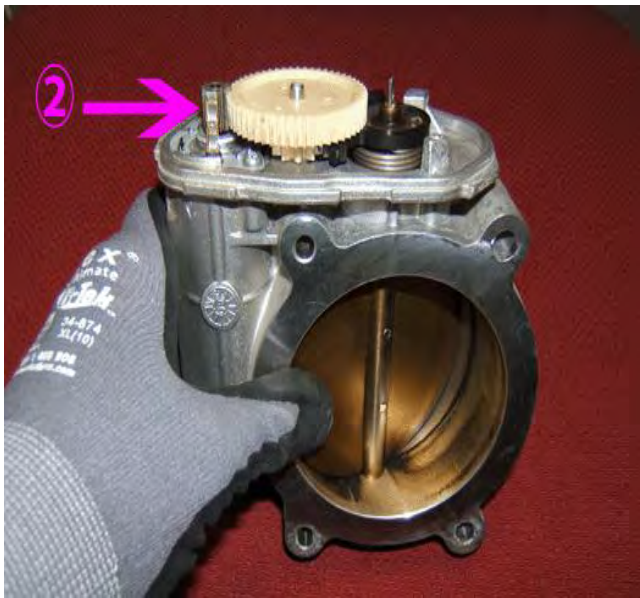


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13. Verify that the TP sensor cover gasket HAS REMAINED in the TP sensor cover as shown. Ensure that the gasket is accounted for and remains with the old TP sensor cover.



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**Note:** If one or both of the TP sensor cover female throttle actuator motor terminals HAVE BEEN retained on the throttle actuator motor male terminals (2), remove and discard those female terminals.

14. Observe the TP sensor cover for missing female throttle actuator motor terminals (1). Verify that the female throttle actuator motor terminals HAVE REMAINED in the TP sensor cover and HAVE NOT been retained on the throttle actuator motor male terminals (2). Discard the old TP sensor cover, gasket and terminals.
15. Remove the new TP sensor cover from the protective shipping wrapper.



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**Note:** If the TP sensor drive slot orientation is not aligned as shown, use a small flathead screwdriver to gently rotate the TP sensor drive slot clockwise to the wide open throttle (WOT) position as shown.

16. Place the TP sensor cover in the position as shown. Confirm the TP sensor drive slot orientation is aligned in the TP sensor cover as shown.



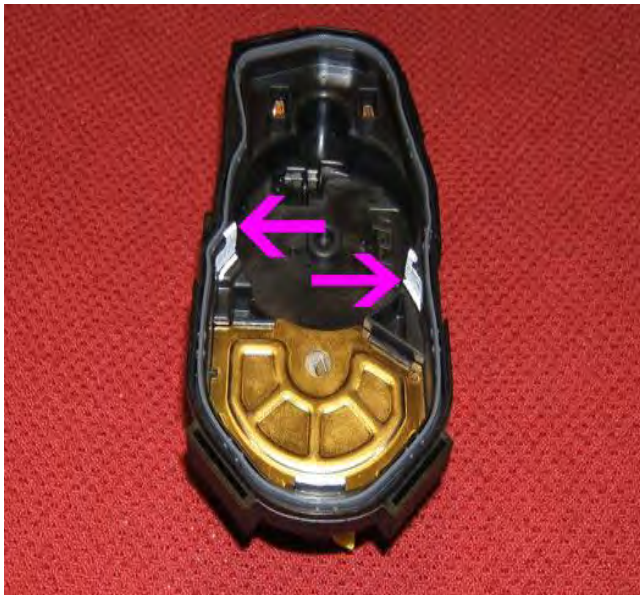
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17. Verify that the TP sensor cover gasket is secure and properly positioned.





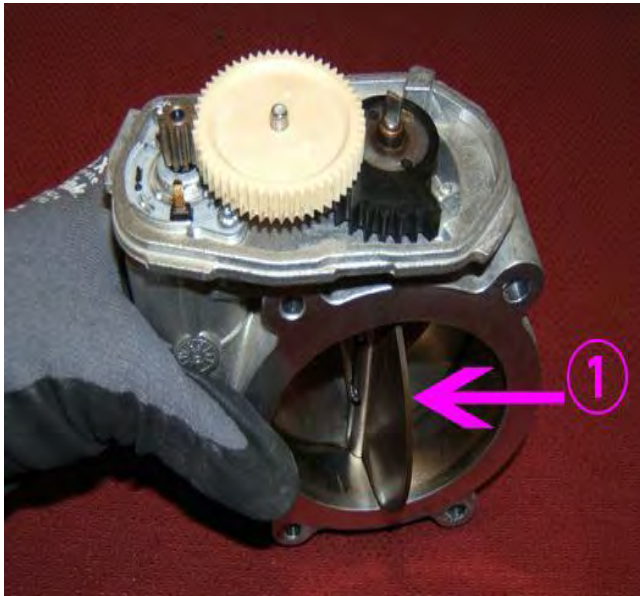
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**Note:** The three TP sensor cover alignment tabs are highlighted in white for identification purposes only.

- 18. Verify that all three of the TP sensor cover alignment tabs are present and are not damaged.
- 19. Grasp and hold the throttle body in the previously hand held upward position. Lightly depress the intermediate gear to verify that it is fully seated and the gears are engaged.



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20. Rotate the throttle body plate to the WOT position (1).



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21. Position and install the TP sensor cover to the throttle body. Hold the TP sensor cover in position. If necessary for ease of the clip installation, secure a rubber band around the throttle body and TP sensor cover.



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22. Install the first new TP sensor cover clip (1) in the position shown.



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- 23. Install the remaining new TP sensor cover clips in the sequence shown.
- 24. Install a NEW throttle body gasket to the intake manifold.
- 25. Install the throttle body, bolts and nuts. DO NOT tighten the fasteners yet.
- 26. Connect the electrical connector to the throttle body.
- 27. Turn ON the ignition. Clear the DTC with a scan tool.

28. Observe the scan tool TP Sensor 1 and 2 Agree/Disagree parameter while slowly depressing the accelerator pedal to WOT and then slowly returning the pedal to closed throttle. Repeat the procedure several times. Rapidly depress the accelerator pedal from the rest position to the wide open throttle position (WOT) and release pedal. Repeat the procedure several times. The TP Sensor 1 and 2 Agree/Disagree parameter should display **Agree**.
  - If TP Sensor 1 and 2 Agree/Disagree parameter displays **Agree**, proceed to Step 29.
  - If TP Sensor 1 and 2 Agree/Disagree parameter displays **Disagree**, replace the throttle body assembly.
29. Observe the engine control module (ECM) module DTC information. Are DTC P1516, P2101 and/or P2176 set?
  - If DTC P1516, P2101 and/or P2176 are set, replace the throttle body.
  - If DTC P1516, P2101 and/or P2176 are not set, proceed to Step 30.
30. Tighten the throttle body fasteners.

**Tighten**  
Tighten the fasteners to 10 N•m (89 lb in).
31. Install any remaining components that were removed during this procedure.
32. Verify the battery voltage is more than 12 volts but less than 16 volts before proceeding with ECM reprogramming.
33. During reprogramming, the battery voltage must be maintained within the proper range of 12-15 volts. Connect the approved Midtronics® PSC 550 Battery Maintainer (SPS Programming Support Tool EL-49642) to the vehicle.
  - If the above recommended tool is not available, DO NOT connect a battery charger to the vehicle. Connect a fully charged 12V jumper or booster pack that is disconnected from the AC voltage supply.
34. Use a Tech 2® or a multiple diagnostic interface (MDI) module for reprogramming. Ensure that either device is updated with the latest available software version before performing the reprogramming event.
35. Reprogram the ECM using the Service Programming System (SPS) with the latest calibration available on TIS2WEB. Refer to the SPS procedures in SI.
36. Perform the Throttle Learn Reset Procedure. Refer to Throttle/Idle Learn > Throttle Learn > Reset Procedure in SI.

#### CUSTOMER REIMBURSEMENT - For US

Customer requests for reimbursement of previously paid repairs to correct the condition described in this bulletin are to be submitted to the dealer by December 31, 2013, unless otherwise specified by state law. If this is not convenient for the customer, they may mail the completed Customer Reimbursement Request Form and all required documents to the GM Customer Assistance Center. Repairs must have occurred within the 10 years of the date the vehicle was originally placed in service, or 120,000 miles, whichever occurs first.

**All reasonable and customary costs to correct the condition described in this bulletin should be considered for reimbursement. Any questions or concerns should be reviewed with your District Service Manager – Aftersales prior to processing the request.**



When a customer requests reimbursement, they must provide the following:

- A completed Customer Reimbursement Request Form. This form is mailed to the customer or can be obtained through GM GlobalConnect.
- The name and address of the person who paid for the repair.
- Paid receipt confirming the amount of the repair expense, a description of the repair, and the person or entity performing the repair.

**IMPORTANT:** GM requires dealers to approve or deny a reimbursement request within 30 days of receipt. If a reimbursement request is approved, the dealer should immediately issue a check to the customer and submit an appropriate warranty transaction for the incurred expense. If a reimbursement request is denied, the dealer **MUST** provide the customer with a clear and concise explanation, in writing, as to why the request was denied. The bottom portion of the Customer Reimbursement Request Form may be used for this purpose. If the denial was due to missing documents, the customer can resubmit the request when the missing documents are obtained, as long as it is still within the allowed reimbursement period.

Warranty transactions for customer reimbursement of previously paid repairs are to be submitted as required by GM Global Warranty Management. Additional information can also be found in Warranty Administration Bulletin 11-00-89-004.

#### CUSTOMER REIMBURSEMENT - For Canada and Export

Customer requests for reimbursement of previously paid repairs to correct the condition described in this bulletin are to be submitted to the dealer prior to or by December 31, 2013. Repairs must have occurred within the 10 years of the date the vehicle was originally placed in service, or 193,000 kilometers, whichever occurs first.

When a customer requests reimbursement, they must provide the following:

- Proof of ownership at time of repair.
- Original paid receipt confirming the amount of unreimbursed repair expense(s) (including Service Contract deductibles), a description of the repair, and the person or entity performing the repair.

If the work was done by someone other than a GM dealership, the amount of reimbursement will be limited to the amount that the repair would have cost GM to have it completed by a GM dealership.

#### 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.

<b>Labor Code</b>	<b>Description</b>	<b>Labor Time</b>	<b>Net Item</b>
T5875	Diagnostic Time Only – No Repair Required	0.1-0.3	N/A
T5876	Throttle Position Sensor Cover Replacement & ECM Reprogram (inc diagnosis) - All Vehicles Except Express and Savana - Express and Savana	1.3 1.7	N/A
T5877	Customer Reimbursement Approved	0.2	*
T5878	Customer Reimbursement Denied - For US dealers only	0.1	N/A

\* The amount identified in "Net Item" should represent the dollar amount reimbursed to the customer.

CUSTOMER NOTIFICATION

General Motors will notify customers of this special coverage on their vehicles (see copy of typical customer letter included with this bulletin - actual divisional letter may vary slightly).



Dear General Motors Customer:

As the owner of a 2008, 2009, or 2010 GM vehicle, your satisfaction with our product is very important to us.

This letter is intended to make you aware that some 2008-2009 Chevrolet TrailBlazer; GMC Envoy; HUMMER H2; 2008-2010 Cadillac Escalade, Escalade ESV, Escalade EXT; Chevrolet Avalanche, Express, Silverado, Suburban, Tahoe; GMC Savana, Sierra, Yukon, Yukon XL; HUMMER H3; 2009-2010 Chevrolet Colorado; GMC Canyon; and HUMMER H3T vehicles, equipped with a V8 engine, may have a condition where the throttle position sensor may cause the engine to run rough and cause the malfunction indicator lamp and/or an Engine Reduced Power message to illuminate. If this occurs, it could result in reduced engine power.

**Do not take your vehicle to your GM dealer as a result of this letter unless you believe that your vehicle has the condition as described above.**

**What We Have Done:** General Motors is providing owners with additional protection for the condition described above. If this condition occurs on your 2008-2009 Chevrolet TrailBlazer; GMC Envoy; HUMMER H2; 2008-2010 Cadillac Escalade, Escalade ESV, Escalade EXT; Chevrolet Avalanche, Express, Silverado, Suburban, Tahoe; GMC Savana, Sierra, Yukon, Yukon XL; HUMMER H3; 2009-2010 Chevrolet Colorado; GMC Canyon; or HUMMER H3T vehicle, equipped with a V8 engine, within 10 years of the date your vehicle was originally placed in service or 120,000 miles (193,000 km), whichever occurs first, the condition will be repaired for you at **no charge**. Diagnosis or repair for conditions other than the condition described above is not covered under this special coverage program.

**What You Should Do:** If you believe that your vehicle has the condition described above, repairs and adjustments qualifying under this special coverage must be performed by a General Motors dealer. You may want to contact your GM dealer to find out how long they will need to have your vehicle so that you may schedule the appointment at a time that is convenient for you. This will also allow your dealer to order parts if they are not already in stock. Keep this letter with your other important glove box literature for future reference.

**Reimbursement:** If you have paid for repairs for the condition described in this letter, please complete the enclosed form and present it to your dealer with all required documents. Working with your dealer will expedite your request, however, if this is not convenient, you may mail the completed form and all required documents to Reimbursement Department, PO Box 33170, Detroit, MI 48232-5170. The completed form and required documents must be presented to your dealer or received by the Reimbursement Department by December 31, 2013, unless state law specifies a longer reimbursement period.

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
Chevrolet	1-800-222-1020	1-800-833-2438
GMC	1-800-462-8782	1-888-889-2438
Hummer	1-800-732-5493	1-800-833-6537
Guam	65-6267-1752	
Puerto Rico – English	1-800-496-9992	
Puerto Rico – Español	1-800-496-9993	
Virgin Islands	1-800-496-9994	

We are sorry for any inconvenience you may experience; however we have taken this action in the interest of your continued satisfaction with our products.

Jim Moloney  
General Director,  
Customer and Relationship Services

Enclosure  
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