

GM SERVICE AND PARTS OPERATIONS  
DCS1511  
URGENT - DISTRIBUTE IMMEDIATELY

Date: January 13, 2006

Subject: Safety Recall  
06502 - Electronic Throttle Control Calibration -  
Reprogram ECM

Model: 2006 Cadillac STS Equipped with All Wheel Drive  
and 3.6L V6 Engine

To: All Cadillac Dealers

Attention: Dealer Operator, General Manager, Sales Manager,  
Used Car Manager, Service Manager, Parts Manager  
and Warranty Administrator

**PRODUCT FIELD ACTION ANNOUNCEMENT**

General Motors is announcing Product Safety Recall 06502 today. The total number of vehicles involved is 1,513. Please see the attached bulletin for details.

**Telephone Contact Information**

Customers with available numbers will be contacted by telephone.

**Mailing Information**

Customer notification letter mailing will begin January 24, 2006.

**GM Vehicle Inquiry System (GMVIS)**

GMVIS information will be available on January 14, 2006.

**Service Information System (SI)**

Bulletin 06502 is scheduled to be available on January 14, 2006.

**Campaign Initiation Detail Report (CIDR)**

The CIDR will be available in GM DealerWorld by January 20, 2006.

DOUBLE CLICK ON THE ICON BELOW  
THEN SINGLE CLICK ON THE LAUNCH BUTTON  
TO VIEW OR PRINT THE DOCUMENT

(See attached file: 06502.pdf)

END OF MESSAGE  
GM SERVICE AND PARTS OPERATIONS



# Recall Bulletin



## PRODUCT SAFETY RECALL

**SUBJECT:** ELECTRONIC THROTTLE CONTROL CALIBRATION – REPROGRAM ECM

**MODELS:** 2006 CADILLAC STS EQUIPPED WITH AWD AND 3.6L V6 (RPO LY7 – VIN 7) ENGINE

### CONDITION

General Motors has decided that a defect, which relates to motor vehicle safety, exists in **certain** 2006 model year Cadillac STS model vehicles equipped with all wheel drive and a 3.6L V6 (RPO LY7 - VIN 7) engine. The affected vehicles have a condition in which the torque monitoring functions of the electronic throttle control (ETC) are not enabled. These functions can limit engine speed and torque if unusual engine control module (ECM) hardware or software failures occur. Without these functions enabled, a persistent ECM failure could result in a throttle opening greater than commanded by the driver and a crash could occur. The diagnostics for the ETC components, like the pedal and throttle position sensors and wiring, are functioning properly and will limit engine torque if a malfunction is detected.

### CORRECTION

Dealers are to reprogram the engine control module (ECM).

### VEHICLES INVOLVED

Involved are **certain** 2006 Cadillac STS model vehicles equipped with AWD and a 3.6L V6 (RPO LY7 – VIN 7) engine and built within these VIN breakpoints:

YEAR	DIVISION	MODEL	FROM	THROUGH
2006	Cadillac	STS	60118131	60169888

**IMPORTANT:** GM dealers should confirm vehicle eligibility through **GMVIS** (GM Vehicle Inquiry System) prior to beginning recall repairs. [Not all vehicles within the above breakpoints may be involved.]

For US and Canada: For GM dealers with involved vehicles, a Campaign Initiation Detail Report (CIDR) containing the complete vehicle identification number, customer name and address data has been prepared and will be loaded to the GM DealerWorld (US) Recall Information, GMinfoNet (Canada) Recall Reports. Dealers will not have a report available if they have no involved vehicles currently assigned.

The Campaign Initiation Detail Report 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.

### PARTS INFORMATION

Do not attempt to order the calibration number from GMSPO. The calibration numbers are programmed into the engine control module (ECM) via a Techline TECH 2 scan tool and the Techline Information System (TIS) 2000 terminal with the calibration update.

### SERVICE PROCEDURE

**NOTICE:** Before reprogramming, please check the battery condition to prevent a reprogram error of the ECM due to battery discharge. Battery voltage must be between 12 and 16 volts during reprogramming. If the vehicle battery is not fully charged, use jumper cables from an additional battery. Be sure to turn off or disable any system that may put a load on the battery such as automatic headlamps, daytime running lights, interior lights, heating, ventilation, and air conditioning (HVAC) system, radio, engine cooling fan, etc. A programming failure or control module damage may occur if battery voltage guidelines are not observed.

The ignition switch must be in the proper position. The TECH 2 prompts you to turn ON the ignition, with the engine OFF. DO NOT change the position of the ignition switch during the programming procedure, unless instructed to do so.

Make certain all tool connections are secure, including the following components and circuits:

- The RS-232 communications cable port
- The connection at the data link connector (DLC)
- The voltage supply circuits

DO NOT disturb the tool harnesses while programming. If an interruption occurs during the programming procedure, programming failure or control module damage may occur.

DO NOT turn OFF the ignition if the programming procedure is interrupted or unsuccessful. Ensure that all control module and DLC connections are secure and the TIS terminal operating software is up to date. Attempt to reprogram the control module. If the control module cannot be programmed, replace the control module.

**IMPORTANT:** The calibration numbers are programmed into the ECM via a Techline TECH 2 scan tool and the Techline Information System (TIS) 2000 terminal with the calibration update. Use data version 1.25 or later, broadcast to dealers on January 11, 2006; and on TIS CD-ROM version 2.0 / 2006, which will be mailed to dealers beginning February 16, 2006. To complete this service procedure, the TECH 2 must also be updated to release 26.001 or greater. If you cannot access TECH 2 release 26.001 call the Techline Customer Support Center at 1-800-828-6860 (English), 1-800-503-3222 (French) and it will be provided.

1. Reprogram ECM using TECH 2 Remote Programming Method.
  - 1.1 Use normal "request method" through "Service Programming System" to request information from vehicle.
  - 1.2 At Techline Terminal enter TIS SPS programming system.
  - 1.3 Select **TECH 2** from the "Select Diagnostic Tool" window.
  - 1.4 Select **Reprogram ECU** from the "Select Programming Process" window.
  - 1.5 Select **Vehicle** from the "Select ECU Location" window.
  - 1.6 Select **Next** to go to the "Preparing for Communication" instruction screen.
  - 1.7 Select **Next** to view the "Validate Vehicle ID Number" screen.
  - 1.8 Select **Next** to view "Supported Controllers" screen.
  - 1.9 Select **PCM/VCM Powertrain/Vehicle Control Module** from "Supported Controllers" window.
  - 1.10 Select **Next** to view the "Select Programming Type" window.
  - 1.11 Select **Normal** from the "Select Programming Type" window.
  - 1.12 Select **Next** to view the "Service Programming System Calibration Selection" screen.
  - 1.13 Select **Next** to view "Summary" screen.
  - 1.14 Verify that the following information is displayed on the "Summary" screen:

<u>ID</u>	<u>Current #</u>	<u>Selected #</u>
<b>2</b>	<b>12597264 or 12606903</b>	<b>12608966</b>
  - 1.15 Select **Next** to download the calibration to the TECH 2.
  - 1.16 Enter "Service Programming Systems".
  - 1.17 Select **Program ECU** and follow on screen instructions.
  - 1.18 Make sure to turn OFF the ignition for 30 seconds after the "Programming is Complete" screen is displayed. Clear diagnostic trouble codes (DTCs), if required.

### COURTESY TRANSPORTATION

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 Warranty. The availability of courtesy transportation to customers whose vehicles are within the warranty coverage period and involved in a product recall 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.

CLAIM INFORMATION

Submit a Product Recall Claim with the information indicated below:

REPAIR PERFORMED	PART COUNT	PART NO.	PARTS ALLOW	CC-FC	LABOR OP	LABOR HOURS	NET ITEM
Reprogram ECM	N/A	--	N/A	MA-96	V1436	0.4	N/A
Courtesy Transportation for vehicles within the New Vehicle Limited Warranty (US & Canadian GM Dealers)	N/A	N/A	N/A	MA-96	*	N/A	**

\* Submit courtesy transportation using normal labor operations for courtesy transportation as indicated in the GM Service Policies and Procedures Manual for vehicles within the New Vehicle Limited Warranty.

\*\* The amount identified in the "Net Item" column should represent the actual dollar amount for courtesy transportation.

Refer to the General Motors WINS Claims Processing Manual for details on Product Recall Claim Submission.

CUSTOMER NOTIFICATION

General Motors will notify customers of this recall on their vehicle (see copy of customer letter included with this bulletin). Customers will also be notified by phone as soon as the recall is launched.

DEALER RECALL RESPONSIBILITY – For US

The US 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 US 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/repared 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.

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GM bulletins are intended for use by professional technicians, NOT a "do-it-yourselfer". They are written to inform these technicians of conditions that may occur on some vehicles, or to provide information that could assist in the proper service of a vehicle. Properly trained technicians have the tools, equipment, safety instructions, and know-how to do a job properly and safely. If a condition is described, **DO NOT** assume that the bulletin applies to your vehicle, or that your vehicle will have that condition. See your dealer/retailer for information on whether your vehicle may benefit from the information.



**We Support  
Voluntary  
Technician  
Certification**

January 2006

Dear General Motors Customer:

This notice is sent to you in accordance with the requirements of the National Traffic and Motor Vehicle Safety Act.

**Reason For This Recall:** General Motors has decided that a defect, which relates to motor vehicle safety, exists in certain 2006 model year Cadillac STS model vehicles equipped with all wheel drive and a 3.6L V6 engine. The affected vehicles, including yours, have a condition in which the torque monitoring functions of the electronic throttle control (ETC) are not enabled. These functions can limit engine speed and torque if unusual engine control module (ECM) hardware or software failures occur. Without these functions enabled, a persistent ECM failure could result in a throttle opening greater than commanded by the driver and a crash could occur. The diagnostics for the ETC components, like the pedal and throttle position sensors and wiring, are functioning properly and will limit engine torque if a malfunction is detected.

If you experience excessive engine speed, you should firmly apply the brake to stop the vehicle. Shifting to neutral will make stopping easier.

**What Will Be Done:** Your dealer will reprogram the ECM. This service will be performed for you at **no charge**.

**How Long Will The Repair Take?** It is likely that your dealer will need your vehicle longer than the actual service correction time of approximately 30 minutes, because of service scheduling requirements.

**Contacting Your Dealer:** To limit any possible inconvenience, we recommend that you contact your dealer as soon as possible to schedule an appointment for this repair. You may have been contacted by our call center on this issue and have already made arrangements for the repair. Should your dealer be unable to schedule a service date within a reasonable time, you should contact the appropriate Customer Assistance Center at the listed number below. The Customer Assistance Center's hours of operation are from 8:00 AM to 11:00 PM, EST, Monday through Friday.

Division	Number	Text Telephones (TTY)
Cadillac	1-866-982-2339	1-800-833-2622
Guam	1-671-648-8650	
Puerto Rico – English	1-800-496-9992	
Puerto Rico – Español	1-800-496-9993	
Virgin Islands	1-800-496-9994	

If, after contacting the appropriate Customer Assistance Center, you are still not satisfied that we have done our best to remedy this condition without charge and within a reasonable time, you may wish to write the Administrator, National Highway Traffic Safety Administration, 400 Seventh Street, SW, Washington, DC 40990; or call the toll-free Vehicle Safety Hotline at 1-888-327-4236 (TTY: 1-800-424-9153); or go to <http://www.safercar.gov>.

**Customer Reply Form:** The enclosed customer reply form identifies your vehicle. Presentation of this form to your dealer will assist in making the necessary correction in the shortest possible time. If you no longer own this vehicle, please let us know by completing the form and mailing it back to us.

**Courtesy Transportation:** If your vehicle is within the New Vehicle Limited Warranty your dealer may provide you with shuttle service or some other form of courtesy transportation while your vehicle is at the dealership for this repair. Please refer to your Owner's Manual and your dealer for details on Courtesy Transportation.

**Recall Information Online:** More information about this recall, including answers to frequently asked questions, can be found at the Owner Center at My GMLink. This free online service offers vehicle and ownership related information along with tools tailored to your specific vehicle. To join, visit [www.gm.com/recall](http://www.gm.com/recall) and enter your vehicle's 17-character vehicle identification number (VIN), shown on the enclosed customer reply form.

Federal regulation requires that any vehicle lessor receiving this recall notice must forward a copy of this notice to the lessee within ten days.

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

General Motors Corporation

Enclosure  
06502