

A Monthly Publication for GM Dealership Service Professionals

Articulating Running Boards





By September, the 2007 full-size utilities will be available with articulating running boards, RPO BRS.

Operation

There are two running boards, one on each side. Each one provides a step below both the front and rear doors. The ARB assembly is installed beneath the side of the vehicle in a position that does not affect ground clearance. When the running board is retracted, it is sheltered from debris so it remains clean.

With the opening of either the front or rear door, a power extend operation occurs on the assist step on that side of the vehicle. A power retract operation

Techline News

New Reconfiguration Process

In the past, when it was necessary to change the configuration of a vehicle (axle ratio, for instance), you had to call the Techline Customer Support Center (TCSC) and obtain a Vehicle Configuration Index (VCI) number. Then you would use the VCI number to access the download that corresponded to the required change. TCSC also updated the vehicle's "as built" database to reflect the new change.

This process has been considerably streamlined.

Now, you will still call TCSC to report the change to be made, and provide vehicle information, including VIN, accessory being installed or option being changed, and authorization codes if needed.

TCSC will access the main data base and make the appropriate changes for the vehicle in question. You will then be able to access the new configuration using normal procedures through TIS2WEB.

When you hang up the phone, by the time you get to your terminal, the download will already be available, ready for use.

TIP: The reprogramming that's necessary when installing 20-inch wheels still requires you to obtain a VCI number.

- Thanks to Craig Jones and Devin Koski

occurs on the assist step with the closing of both doors on that side of the vehicle. A door open/close status input is

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Techline News

Vehicle Data Recorder Software Update

A new essential tool software update CD 14.0 is being shipped for the J-42598 Vehicle Data Recorder (VDR).

Revision 14.0 adds Chassis support for 2006 vehicles and Powertrain/Chassis for 2007 full-size utilities.

With this version, there's a standard "Save As" option for saving snapshots. You can save to your hard drive or to removable drives, such as compact flash or USB flash drive.

This software is compatible with generic hardware and will operate on Windows 2000 Professional and XP Professional.

- *TIP*: GMLAN vehicles and live data screen require VDR CAN+ hardware (J-42598-B).
 - Contact SPX Kent-Moore at 1.800.345.2233 for information.

- Thanks to Mike Banar

Owner Manual and Warranty Information on SI

TIP: The owner manual and warranty information that resides in the Service Information Database and distributed electronically on SI and on DVD is updated only during the current model year. Once the final version is printed, the service information database is not updated for previous model years.

 Thanks to Krys Clever and Yvonne Carpenter

Tire Size Programming

When replacing the Electronic Brake Control Module (EBCM) or Vehicle Stability Enhancement System (VSES) module an a 2006 Saab 9-7x, tire size programming is required. When programming the tire size, note that tire size P255/55R18 is not listed in the Tech 2 list. This tire selection in the EBCM/VSES is designed for EBCM/VSES operation and does not affect odometer or speedometer operation on the Instrument Panel Cluster.

When replacing and programming the EBCM/VSES on a vehicle equipped with

Terminal Test Probe and Terminal Repair Kit

An article in the June issue of TechLink introduced two extensive and useful reference files on these topics. They are located in the **Reference Guide** section of the TechLink website. To find them, look at the top of any month's home page (any language). Locate the Reference Guide tab and click. Then scroll down to locate the desired file.

TIP: These are very large files, so allow plenty of time for them to download.

P255/55R18 tires, select tire size P255/60R17 from the Tech 2 list. The Tech 2 path for this programming is listed below.

- Tech 2 Path:
- > Select Model Year
- > LD Truck
- > Saab
- > Chassis
- > ABS-TCS-VSES
- > Special Functions
- > Tire Size Calibration
- > New Tire Size

Select tire size P255/60R17 when tire size P255/55R18 is not offered.

- Thanks to Dino Poulos, TAC



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General Motors service tips are intended for use by professional technicians, not a "do-it-yourselfer." They are written to inform those 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 equipment, tools, 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 a General Motors dealer servicing your brand of General Motors vehicle for information on whether your vehicle may benefit from the information.

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Articulating Running Boards — from page 1

received by the assist step controller through the GMLAN serial data line. The park brake switch and vehicle speed inputs are also received by the assist step controller through the GMLAN serial data line. The assist steps are disabled when the disable switch is pushed once. The assist steps are enabled with a second push of the disable switch.



Each assist step has a bi-directional motor and a hall-effect sensor to detect the position of the assist step. The halleffect sensors are included with the motor assembly. The polarity on each motor is switched to reverse the direction of assist step travel.



Object Detection — Each assist step reverses direction of travel when an



object is detected in the travel path. If an assist step is moving in the retract direction, the assist step will move to the full extend position if an object is detected. If a door is opened and then closed on the same side as the extended assist step, the assist step will move to the retract position. The assist steps will stop and hold if after two failed retracting attempts an object is detected when retracting and the vehicle is in the drive position with the vehicle speed above 5 mph.

Service Tips

Diagnostic Data — The ARB module provides diagnostic information to the DLC which can be accessed using the Tech 2. Codes are of the U- and B-types.

Module Unlock Procedure — The vehicle is delivered with the ARB module locked, to prevent operation during shipping. It is necessary to perform the unlock procedure during Pre-Delivery Inspection.

- 1. Both driver side doors open
- 2. Park brake set
- 3. Turn ignition switch On
- 4. Within 20 seconds, toggle the Disable Switch three times, leaving it in the enabled position

Running Board Removal — Before removing the running board from the bracket, mark its location with a grease pencil and measure the distance to the front and rear of the board. This is explained in SI, and is necessary to ensure that the running board is properly realigned with the body.

Motor Replacement — Follow the SI procedure when installing a replacement motor, to ensure that the flat on the motor and the step wedge are properly aligned, to avoid unwanted noise.

Learn Procedure — When the assist step controller is replaced, or loses battery power, the assist step controller must learn the position of both assist steps. At least one door must be opened and closed on each side of the vehicle for both assist steps to go to a learn procedure. Each assist step will extend and then retract after a door is opened and closed on that assist step's side of the vehicle. Each assist step will learn its own position with the learn procedure.

TIP: The new assist step controller must be unlocked for the learn procedure to commence. New module initial setup for Assist Step Controller in the Tech 2 must be followed to clear the MEC and then the Module Unlock Procedure must be followed to unlock the boards before learning.

Control Module Replacement — Although the control module is reprogrammable, replacement modules will be pre-programmed and ready for use once a new module initial setup for Assist Step Controller in the Tech 2 is completed to clear the MEC and then the Module Unlock Procedure is executed.

 Thanks to Greg McIsaac and John Scott

Aisin Transmission Lubricants and Sealants

This information applies to manual transmission repair on the Chevrolet Colorado, GMC Canyon, Saturn Sky, Pontiac Solstice, and Hummer H3.

Manual transmission fluid requirements for the various units presently in service change from model to model.

Using the incorrect type of transmission fluid in Aisin manual transmissions may affect the sealing ability of the seals. An incorrect type of sealer may not be compatible with the transmission fluid or may not have the correct characteristics for sealing the affected components. TIP: Refer to SI documentation for correct sealers, adhesives, lubricants and fill quantity for each transmission you service.

Aisin manual transmissions require the use of p/n 89021806 - Fluid, m/trns 75W-90 GL-3, 1QT (89021807, 1L, in Canada). The use of the correct fluid is required to assure the desired shift characteristics and compatibility with adhesive sealers.

RTV is the only sealer that is compatible with this fluid. The use of anaerobic sealers on Aisin manual transmissions is not recommended.

- Thanks to Pat Connell

Manual Transmission Lubricant

This information applies to 2007 and prior GM passenger cars and trucks.

Dexron III is being phased out as a product name. It is being renamed Manual Transmission Fluid and carries p/n 88861800 U.S. (88861801 Canada).

If fluid p/n 88861800 U.S. (88861801 Canada) is not yet available when servicing a manual transmission or transfer case, Dexron III can be used in its place.

DO NOT use Dexron VI in place of manual transmission fluid in any manual transmissions or transfer cases that specify Dexron III, as a failure may result.

- Thanks to Charles Krepp, TAC

Low Gloss Interior Cleaners

A new line of interior cleaners is now available from GMSPO (US) and ACDelco (Canada). These products were developed specifically for cleaning low gloss and light color interiors such as those used in the 2006-07 GM cars and trucks.





GM Vehicle Care products



AC Delco products

Upholstery should be cleaned often to avoid becoming heavily soiled. Heat can cause stains to become set quickly. Lighter colors may require cleaning more often — newspapers and garments may transfer color to the vehicle's interior.

Many of today's interiors are made with new, low gloss materials. For these interiors, harsh cleaning products are not recommended. Using products not intended for low gloss surfaces can set the stain to the point that nothing will remove it.

Refer to bulletin 06-00-89-029 for more details. Here are some highlights.

- Silicone and wax-based products and those with organic solvents can increase gloss non-uniformly, which will alter the appearance of low gloss surfaces.
- Avoid using a stiff brush, which can damage interior surfaces.
- Use mild, neutral-pH cleaners. Laundry detergents and dishwashing soaps with degreasers are unsatisfactory.

TIP: Using too much soap will leave residue which causes streaks and attracts dirt.

The new cleaning products, approved by GM, are in the neutral-pH range, water based, biodegradable, and do not contain bleach, solvents or harsh chemicals.

Here are the part numbers, details and usage suggestions for the new products. Each product is available in two sizes, large for dealership use and small for retail sale.

Cleaner — Leather/Vinyl/Plastic/Interior Paint

US Vehicle Care	88861401	24 oz spray bottle
US Vehicle Care	88861405	8 oz spray bottle
Canada ACDelco	88861409	710 ml spray bottle
Canada ACDelco	88861413	235 ml spray bottle

This cleaner is specifically formulated for leather, vinyl and plastic. It is safe to use on both low gloss and high gloss finishes.

It is formulated with natural citrus degreasers to remove ink, tar, grease, crayons and markers from leathers, vinyls and plastics.

- 1. Pretest before using.
- 2. Spray on stain.
- 3. Use soft bristle brush, lightly brush, then blot the surface.
- 4. Use in conjunction with conditioner below to restore natural oils to leather and vinyl materials.

Conditioner — Leather/Vinyl Restorer

US Vehicle Care	88861402	24 oz spray bottle
US Vehicle Care	88861406	8 oz spray bottle
Canada ACDelco	88861410	710 ml spray bottle
Canada ACDelco	88861414	235 ml spray bottle

This conditioner is specially formulated for leather and vinyls to replenish oils after cleaning. It is safe to use on low gloss leathers and vinyls.

- 1. Pretest before using.
- 2. Spray on a clean, soft terry cloth and apply to the surface.
- 3. Allow to air dry, and the luster of the material will return.

Cleaner — Upholstery Stain Remover (food, beverage)

US Vehicle Care	88861403	24 oz spray bottle
US Vehicle Care	88861407	8 oz spray bottle
Canada ACDelco	88861411	710 ml spray bottle
Canada ACDelco	88861415	235 ml spray bottle

This professional strength cleaner is ready to use to remove stains from upholstery fabrics caused by food, beverages, protein, chocolate, tea, grass, wine, mildew, mustard, ketchup, latex paint, vomit, vegetable oil, mayonnaise, salad dressing, blood, and urine.

- 1. Pretest before using.
- 2. Carefully remove excess spill, then apply stain remover.
- 3. Allow solution to work. Lightly agitate the spot with a soft brush.
- 4. Blot.
- 5. Rinse with water, then blot again.

Cleaner — Upholstery Stain Remover (ink, grease)

US Vehicle Care	88861404	24 oz spray bottle
US Vehicle Care	88861408	8 oz spray bottle
Canada ACDelco	88861412	710 ml spray bottle
Canada ACDelco	88861416	235 ml spray bottle

This professional strength cleaner is ready to use to remove stains from upholstery fabrics caused by grease, ink, butter, iodine, mustard, mayonnaise, oil, cosmetics, lipstick, tar, gum, crayon, shoe polish, urine, markers and red stains.

- 1. Pretest before using.
- 2. Carefully remove excess spill, then apply stain remover.
- 3. Allow solution to work. Lightly agitate the spot with a soft brush.
- 4. Blot.
- 5. Rinse with water, then blot again.
- Thanks to Ron Martin, Greg Hadfield and Jerry Garfield

Cylinder Head Removal

This information applies to the dual overhead cam engine family used in Colorado/Canyon pickups and Hummer H3. These engines are the four cylinder 2.8 L (LK5) and five cylinder 3.5 L (L52).

TIP: GM Powertrain is developing a revised procedure to use this tool on the LL8 4.2L 6 cylinder engine, and bulletin 06-06-01-017 will be updated to reflect this new procedure when it becomes available.

Until now, cylinder head removal required removing the timing chain, which in turn required removing the drive belt tensioner, front engine cover, water pump, crankshaft balancer, power steering pump, oil pump and engine oil pan.

A new lower timing chain tensioner



Lower timing chain tensioner holding tool EN-48468

holding tool EN-48468 has been released to simplify this job.

Using this tool permits cylinder head removal without having to remove any of the items listed earlier. A side benefit is minimizing customer comebacks due to oil leaks that could result from the removal and installation of these components.

Refer to bulletin 06-06-01-017 for the completely revised cylinder head removal and installation procedure.

How the New Tool Works

With the piston of cylinder number 1 at top dead center of the compression stroke, the flats of both camshafts face upward and the word Delphi on the exhaust camshaft positioner is parallel to the cylinder head surface. To ensure that everything can be put back into proper timing during reassembly, this is the position everything must be in before the head is removed.

To ensure that the crankshaft does not move during the procedure, the flywheel is locked in place using EN-46547. Then, the new tool EN-48468 is used to ensure that the timing chain remains in place on the crankshaft gear. EN-48468 is wedged between the timing chain and the front cover center bolt, by very lightly tapping on it with a plastic or brass hammer. The narrow ramp of the tool wedge faces the chain, and the wide ramp faces the bolt.



Tool wedged against chain (front cover removed for photo)

TIP: Avoid excessive force when wedging the tool into place, to prevent damaging the chain tensioner or front cover bolt.

TIP: The tool handle can be unscrewed after the tool is wedged into place.

Refer to the bulletin procedure for removing the camshaft drive sprockets and cylinder head.

 Thanks to Keith Newbury and Andrew Zink

Creak in Wheel Well

Owners of some 2007 full-size utilities may comment on a creak or squeaking noise coming from the left or right rear wheel well area. This may be caused by insufficient sealer in the body seams in the front portion of the rear wheel wells.

If you experience this concern, locate and repair the void in the sealer.

- Thanks to Paul Radzwilowicz, TAC



CHECK OIL LEVEL Message

This information applies to 1999-2007 Chevrolet Silverado Classic and GMC Sierra Classic, 2002-06 Cadillac Escalade, Chevrolet Avalanche, Suburban, Tahoe, and GMC Yukon and Yukon Denali.

The CHECK OIL LEVEL message may display after a repair if the key is left on when doing an oil change, or after topping off the engine oil due to a low oil condition.

When using the Tech 2 to view the Engine Oil Level Switch data parameter, it will show OK, but the CHECK OIL LEVEL message will still be displayed on the DIC.

These conditions could result if the engine coolant temperature criteria have not been met to reset the CHECK OIL LEVEL. The system must see a 50° F (10° C) drop in engine coolant temperature to recheck the engine oil level. If the level is OK the DIC message will turn off.

To correct this concern, allow the engine to run until operating temperature is reached. Then shut the engine off and allow the engine to cool down for 1 to 2 hours with the key in the off position. On the next key cycle, if the engine oil level is OK, the DIC message will remain off.

- Thanks to Jim Will, TAC

Lifting the Saturn Sky





When lifting the Saturn Sky, it is very important to place the lifting pads in the correct position under the vehicle to avoid damage.

TIP: The correct procedures for the 2007 Saturn Sky are explained in Lifting and Jacking the Vehicle in SI.

TIP: Contact Dealer Equipment for information on low profile lift arms.

- Thanks to Chris Graham

Creak or Squeak Noise

This information applies to 2005-06 full size utilities, Cadillac Escalade, Chevrolet Avalanche, and HUMMER H2 built after May, 2005.

Owners may comment of a creak or squeak type noise on acceleration, deceleration, over bumps, turns or garage shifts. This noise may sound like it is from the front or the rear of the vehicle.

This noise (felt or heard using Chassis Ears) may seem to be coming from along the entire frame side rail or body mount areas. In some cases, the noise may sound like loose lumber while driving on a minimally rough road surface while driving straight or turning. *IMPORTANT:* This noise can sound like it is coming from the propshaft. Do not replace the propshaft for this condition.

This noise could be coming from the rear lower control arm bushings. The squeak is caused by relative movement of the bushing to the control arm flange.

To help isolate the noise to the control arm bushing, spray penetrating oil (WD-40 or equivalent) on the bushing to the control arm area. If the noise is eliminated or reduced, replace the control arm assembly.

- Thanks to Charles Krepp, TAC

Transmission Pump Fluid Leaks

This information applies to 2005-07 cars and trucks equipped with 4L60E or 4L65E (RPO M30 or M32) automatic transmission with an automatic transmission fluid leak from the pump or bell housing area.

Investigation has determined that fluid leaks in this area could be caused by several issues. Some leaks are more severe than others.

A small leak is described as just a few drops of fluid or dampness in the suspected area. A vehicle could be driven a reasonable distance without causing a significant loss of fluid.

A large leak will usually be dripping while being observed. If the vehicle is driven a short distance, a fluid loss would cause the level to drop below the minimum.

Use oil dye in the transmission to verify that the leak is coming from the pump area. Clean the suspected area of all residual oil and drive the vehicle to see if the dye begins to appear.

TIP: If a vehicle with very low mileage displays symptoms of a small leak, it may have assembly oil in the bell housing which is not truly a leak.

Once the dye starts to appear, disassemble and inspect for the root cause. Some 2006 transmissions may have small cuts in the torque converter hub-to-pump seal (243). These cuts may be caused by small burrs on the torque converter hub pump drive slots. These burrs can be seen or felt with a finger and if found should be removed with a file. The torque converter should not be replaced. Torque converter seal leaks caused by these cuts are typically very small, causing only a few drops of fluid loss.

- Thanks to Charles Krepp, TAC

Multiple Electrical Concerns

This information applies to the 2007 Cadillac Escalade, Chevrolet Tahoe and Suburban, and GMC Yukon and Denali.

Some customers may experience one or more of the following concerns.

- Rear door locks inoperative
- Rear windows inoperative
- Door courtesy lamps inoperative or stay on at times.
- Rear speakers inoperative
- Any fuse (related to the rear doors) is blown.
- SIR codes related to the pretensioner
- Interior dimming inoperative

Check the wiring around the seat belt retractor on the left and right B pillar. Repair the wiring as needed and wrap the entire harness in that area with electrical tape to prevent further concerns.

- Thanks to Paul Radzwilowicz, TAC

Ghost Image in Mirror

This information applies to 2003-07 Cadillac Escalade, Chevrolet Avalanche, Silverado, Silverado Classic, Suburban, Tahoe, GMC Sierra, Sierra Classic, Yukon, Hummer H2 with RPO DL3 or DL7.

Some owners may comment that the driver's outside auto dimming mirror RPO DL3 or DL7 has double vision or a ghost image.

The auto dimming mirror uses a 3rd surface chrome glass (a mirror without auto dimming uses 1st surface chrome glass). The layers of the auto dimming mirror are:

- clear glass
- auto dimming fluid
- chrome surface glass.

Due to the auto dimming fluid being between the clear glass and the chrome surface glass, some customers may notice double vision or a ghost image, which is a normal characteristic. Replacing the mirror will not correct the concern.

- Thanks to Jim Will, TAC

New TECHAssists (US only)

The GM Service Technical College (STC) is helping service technicians "fix it right the first time" by releasing two TECHAssists — one is new and one is an update of an existing TECHAssist.

TECHAssists are short web-based programs featuring text, photographs and digital animations. These specialized programs help learners improve their performance without taking much time away from the job. Topics are designed to provide highly relevant information on challenges technicians currently face.

GM STC made some enhancements to the GM Training Website specific for TECHAssists. Using an enhanced launch menu, users can access **TECHAssists:**

- through the GM Training Website under Menu > Service Know-How/TECHAssists
- now through the GM Training on-line catalog.

Users can now view all TECHAssists in one scrollable menu listed by category. Each new TECHAssist will also be identified with its respective release date.

- The appearance has also changed slightly to function the same as other GM Training Web-based courseware. To launch a course,

simply click on the desired course, then from the catalog page select "Launch Course / Take or Continue Course." Tests are included for those TECHAssists available for course credit.

- All new and future TECHAssists will now include audio (based upon user feedback).
- The revised participant feedback form allows the user to provide more specific information regarding TECHAssist content, format, and user access.

The TECHAssist library on the GM Training Website consists of a range of topics. Here is additional information regarding the new TECHAssists:

18043.10T1 - Short Circuit Wire Repair

Description: This TECHAssist for all GM Service Technicians provides information and instruction to perform a wire and/or harness repair which has been damaged by a shorted wire.

Release Date: Length: Category: STS Impact: Division:

May 2006 20 Minutes New Course Content Curriculum Area: Electrical/ Electronics None

All

50250.14T1 - Delphi Micro 64 **Connection System Service (now** updated to include audio)

Description: This TECHAssist provides the necessary information to properly service the Delphi .64 Connection System. Information includes removal and installation onto a module, proper test probing of terminals, disassembly of the connector to remove a single terminal, performing a terminal service replacement, and reassembling the connector.

Release Date:	May 2006
Length:	25 Minutes
Category:	Emerging Issues
Curriculum Area:	Fundamentals
STS Impact:	2006
Division:	All

How to Access TECHAssists

To access the TECHAssists on the website, complete the following steps:

- 1. Log on to the GM Training Website (www.gmtraining.com).
- 2. Click the Service Know-How/TECHAssist link under Menu in the left column.
- 3. Click the "Launch TECHAssist" link on the Service Know-How main menu.

If you have any questions, contact the GM Training Help Desk at 888.748.2687, or visit our website at www.gmtraining.com.

- Thanks to Andrew Zink

Emerging Issues IDL Replay (US only)

Every issue of TechLink contains a training broadcast schedule on page 8. One of the programs listed each month is Emerging Issues.

If you happen to miss seeing one of these programs at the time it's originally broadcast, be aware that the four most recent Emerging Issues programs are always available for replay on your genesis IDL box.

The most recent broadcast is downloaded within five business days of the live broadcast. The latest download replaces the oldest one, so you'll always have four programs available for viewing.

To see the programs presently loaded on your genesis IDL box, press the play button on your remote or the X on the front panel of the hox

The playback menu appears. Then use the arrow keys on the remote control or front panel to select the title you wish to view. Then click the play button to watch the program.

TIP: Pay attention to the last two digits in the course number (just ahead of the D). These match the calendar month.

- Thanks to Andrew Zink

Window Switch Removal

On the 2006-07 Cadillac DTS and Buick Lucerne, window switch replacement requires the removal of the door trim panel. Push the switch out from behind.

NOTICE: Do not attempt to pry out the bezel from the outside as in previous years. Damage to the soft switch bezel and/or armrest will occur

- Thanks to Chris Graham

Voice Recognition

This information applies to Chevrolet Corvette, Pontiac Grand Prix and Cadillac DeVille, DTS, Seville, SRX, STS, and XLR.

Some customers may comment that the Steering Wheel Control (SWC) for Voice Recognition (VR) does not work for Navigation functions. The customer may also experience problems when setting a destination or viewing the map.

Poor voice recognition performance may be experienced when the map disc is warped or scratched. When a customer uses the VR system, the customer's spoken command is compared with a list of stored commands on the map disc.

When the command is matched with a command on the list, the command is executed. If the Navigation Radio cannot read the disc, there will not be a match and the command will not be executed.

Try a known good map disc to ensure that the map disc is not at fault before replacing any components.

TIP: This issue does not include the OnStar VR system.

- Thanks to David Wells, TAC



Car Issues - Fix It Right the First Time

Model Year(s)	Vehicle Line(s) / Condition	Do This	Don't Do This	Reference Information / Bulletin
1999-2006	All Car/Truck – Brake Warranty, Service and Procedures	Issue one: Refinish Brake Rotor Issue two: Measure for LRO	lssue one: Don't replace Brake Rotors if they can be refinished Issue two: Don't forget to measure for LRO	00-05-22-002F
2004-05	Malibu and G6 – Sunvisor Mirror Cover Breaks Off at Hinge Pins	Replace mirror and cover assembly	Don't replace sunshade assembly for broken mirror cover	05-08-110-005B
2005	Chevrolet Corvette with Navigation Radio – FM Radio Static or No Reception	Reprogram radio	Don't replace radio and or antenna modules	05-08-44-014A
2002-05	Saturn VUE, Equinox – Code P0446 May Set Intermittently or Gas Station Nozzle Turns Off Multiple Times while Filling Fuel Tank	Inspect for restriction and resolve per bulletin	Don't replace fuel tank pressure sensor, EVAP canister, EVAP vent solenoid or fuel tank	05-06-04-059
2000-05	S-Series, L-Series, ION, VUE – CD Player Will Not Operate	Reset radio	Don't replace radio	04-08-44-018A
2005-06	Pontiac G6 w/ Panoramic Sunroof – Potential Noise Issues	See bulletin	See bulletin	05-08-67-014
2005-06	Cobalt, Pursuit – Fabric on Door Trim Too Short	Replace pull cup	Don't replace entire door panel assembly	05-08-64-036
2002-07	Saturn ION/VUE – IP Clusters w/ Cracked Lens	Replace lens	Don't replace cluster for scratched lens	SI document number 40371
2000-05	DeVille – Instrument Panel Cluster Display Erratic or Inoperative	Reprogram I/P cluster	Don't replace I/P cluster	04-08-49-029B

Truck Issues – Fix It Right the First Time

Model Year(s)	Vehicle Line(s) / Condition	Do This	Don't Do This	Reference Information / Bulletin
2002-05	TrailBlazer, Envoy, Rainier, Bravada – Service Engine Soon Indicator Illuminated with P0526 Code	Replace EV fan clutch wire harness tether	Don't replace EV fan clutch assembly	05-06-02-012
2002-07	Chevrolet Avalanche, Silverado, Tahoe, Suburban. GMC Sierra, Yukon, Yukon XL, Cadillac Escalade – Front Seat Adjuster Switch Knob Loose or Missing	Replace missing switch cover	Don't replace entire power seat adjuster switch	05-08-50-017
1997- 2007	GM Passenger Cars and Light Duty Trucks, HUMMER H2 and Saturn Vehicles – Low Tire Pressure Due to Leaking Cast Aluminum Wheels	Seal cast aluminum wheel	Don't replace cast aluminum wheel	05-03-10-003
2005-06	Fullsize Pick-ups and Utilities, Mid size Pick-ups and Utilities, G Vans, Hummer H2 and H3 – Brake Rotor Corrosion	Burnish rotors for cosmetic brake corrosion	Don't resurface brake rotors for cosmetic corrosion	00-05-22-002F
2000-07	Vehicles with side terminal batteries – Intermittent No Crank, No Start Condition	Clean battery terminal threads and/or replace cable bolt	Don't replace battery	02-06-04-015



Powertrain Issues - Fix It Right the First Time

Model Year(s)	Vehicle Line(s) / Condition	Do This	Don't Do This	Reference Information / Bulletin
2004-05	Chevrolet TrailBlazer, GMC Envoy and Buick Rainier – Front Drive Axle Leak at Case Half	Install one washer/shim between front axle case/housing and engine oil pan at rearmost mounting hole	Don't remove and reseal or replace front axle assembly for case half leak	04-04-19-002
2005-06	C/K 1500 Silverado, Sierra – Crank Pulley Appears Out of Round	Inspect to determine it pulley is actually out of round	Don't replace crank pulley	05-06-01-029
2003-05	C/K, G Van, M/L, S/T – Low Power at High Ambient Temperatures	Upgrade engine calibration	Don't replace engine module, catalytic converter, fuel pump, MAF sensor or O2 sensor	05-06-04-077
2004-06	Chevrolet Malibu, ION, Colbalt, HHR w/L61 engine – SES Comes On, P0171	Reflash ECM	Don't replace ECM	06-06-04-033

Know-How	10206.09D Emerging Issues	September 14, 2006	9:30 AM and 12:30 PM Eastern Time
Broadcasts	New Model Features	For Web NMF cours	es, log on to the GM Training Website
September		the menu, then choose Nev	w Model Features for a selection of courses.



– Thanks to Tracy Rozman