

A Monthly Publication for GM Dealership Service Professionals

Multiple Diagnostic Interface Watch For It . . .

The GM Multiple Diagnostic Interface (MDI) EL-47955 is being shipped to NAO dealers the third quarter of 2007, one per dealer.

The January 2007 issue of *TechLink* introduced you to the new GM MDI. It is a compact communication module that manages the transfer of data between a vehicle's onboard ECU network and a PC. When software coverage on the GM MDI is fully operational, all diagnostic and reprogramming for GM vehicles globally will be supported with this one piece of hardware.

TIP: Additional tools can be ordered by calling 1.800.GMTOOLS (1.800.468.6657), using prompts 1 or 4.

continued on page 3

Techline News

Feedback

Sharing Your Comments with Techline

The Techline team appreciates when users take a moment to share with us their feedback regarding our websites. Our goal is to quickly provide GM technicians the information they need to service our vehicles.

The following provides an overview for submitting feedback to Techline regarding these applications.

- Service Information (SI), including the Service Manual, Bulletins/ Campaigns, and the GM Labor Time Guide.
- TIS2WEB, including Tech 2 Diagnostics and the Service Programming System (SPS).

Your feedback helps us keep the applications working properly, helps ensure that the applications are user-friendly, and helps ensure that the information provided is accurate.

To get started, you must first select SI or TIS2WWEB from the GM DealerWorld home page (GM infoNET in Canada).

TIP: If you wish to provide feedback about the DealerWorld site, use the feedback button located at the top right of the main page.

Service Information (SI)

TIP: SI is now available in both English and Spanish.

There are several ways to access the SI feedback form. Depending on where the form is accessed from, the form will be sent to one of three mailboxes for review and response. The three mailboxes are Service Manual, Labor Time Guide, and Bulletins/Campaigns.

continued on page 2



Contents

ple Diagnosti, nterface

Nultiple Diagnostic Interface
Watch For It
Feedback
Module Reconfiguring
Seatback Removal
VME Ends
Panoramic Sunroof Update
Body Control Module Grounds5
Passenger Sensing System
Correction
Recreational Vehicle and
Trailer Towing
Bed Rail Stake Pockets
Flashing A/C Indicator Lamp7
Water Leak in Right Floor Area7
Seat Belt Stop Button Replacement7
Lower Timing Gear Tensioner
Holding Tool
Fix It Right the First Time
Know How Broadcasts for July8

Feedback - continued from page 1

First, on the SI home page, you can click on the Feedback link (fifth icon on the list). From this page, the form will automatically default to the Service Manual mailbox.



Second, on every service document in SI, there is a Feedback button in the upper right corner. Click on this button to open the Feedback form.



Once the feedback form is open, fill in all of the relevant blanks, including your name, dealer name, dealer code, etc.

TIP: Be sure to include your email address and phone number, because someone from the SI team may want to contact you for further discussion.

To submit a problem, fill in the requested information. Be as thorough as you can be when giving a detailed description of the problem.

TIP: If you have already "built" a vehicle, and are looking at a service document when you click the Feedback button, the feedback form will automatically fill in the vehicle you're working on and the document ID number.

To submit a suggestion, fill in the box provided, using your own words to give a detailed description of your suggestion.

Once you have submitted your feedback, SI will send an automated receipt to let you know it has been received.

TIS2WEB

To open the TIS2WEB feedback form, click on the Feedback icon in the toolbar. It's the second icon from the top right of the page.

You can choose the type of feedback you wish to comment on, using the pulldown menu in the upper left corner of the page.

The Online Questionnaire is the default form, and is the one you'll probably use the most.

Fill in the spaces provided to comment on the content of the website, the timing of the content (is it on time to help your customer?) and your overall satisfaction.

To provide specific comments or to offer specific critiques, use the comment box provided. Type your comments into the box in your own words. Be as thorough as you can, and provide as much detail as possible.

It's recommended, but optional, that you fill in the contact information at the bottom of the form. This is necessary if you want to receive a response. Your response will be sent to you by email. Typically, allow 30 days or less for a response if your issue is "mainstream." Allow more time if your issue will require extensive research.

 Thanks to Lisa Scott and Mike Waszczenko

Programming Tip

Module Reconfiguration

Has this ever happened to you? After programming a module, certain features don't work. This could apply to any vehicle module, but particularly modules on the low speed GMLAN bus.

The last step of programming is to turn off the ignition key to remove power from the module. When the module is powered-down, it "reboots," which allows reconfiguration to take place.

On vehicles with retained accessory power (RAP), simply turning the ignition off is not sufficient. RAP continues to supply power to many circuits for up to 10 minutes.

You need to turn the ignition off, open the driver door, then close the door. RAP is now disabled, ignition is off, and the module can reconfigure.

- Thanks to Mark Stesney



GM *TechLink* is a monthly magazine for all GM retail technicians and service consultants providing timely information to help increase knowledge about GM products and improve the performance of the service department.

Publisher:

- R. M. (Bob) Savo
 - GM Service and Parts Operations

Editor:

Lisa G. Scott GM Service and Parts Operations Lisa.G.Scott@GM.com

Technical Editor:

Production Manager:

Marie Meredith

Desktop Publishing:

Supreme Graphics, Inc.

FAX number:

1-248-649-5465

Write to: 🖂

TechLink PO Box 500 Troy, MI 48007-0500

GM TechLink on the Web:

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.

Inclusion in this publication is not necessarily an endorsement of the individual or the company.

 $\operatorname{Copyright} @$ 2007 General Motors Corporation All rights reserved.

Multiple Diagnostic Interface - continued from page 1



WHAT'S INCLUDED WITH THE GM MDI?

The EL-47955 GM MDI is a kit of components:

- A GM MDI
- B J1962 Diagnostic connector
- C USB cable
- D Ethernet cable
- E AC adapter/power supply Wireless interface

AAA batteries and Owner manual

The initial operating software for the MDI is included on a CD. Future updates will come from the TIS2Web application.

HOW WILL THE GM MDI BE USED?

Beginning with the 2008 model year vehicles, Pass-Thru will be the **only** programming method available. (Remote will continue to be available for previous vehicles.)

The new GM MDI can be used only in the Pass-Thru method. This means you can use it as your programming tool, while your Tech 2/CANdi remains available for diagnostics and other duties.

The GM MDI is initially being introduced with Pass-Thru programming capabilities only. It can be used to perform Pass-Thru programming on all vehicles built since 1996 and will support all vehicles into the future.

The GM MDI will be required to perform diagnostics on selected NAO vehicles for model year 2009. Diagnostic software is scheduled to be released for the GM MDI during the fourth quarter of 2008.

Regulations require programming procedures to be compliant with SAE Recommended Practice J2534. The GM SPS is compliant with SAE Recommended Practice J2534, and the GM MDI is compliant with the portions of SAE J2534 that are applicable for GM vehicles.

WHAT PROTOCOLS DOES THE GM MDI SUPPORT?

For immediate use – At present, vehicles have two buses on the 16 pin connector (high speed and low speed GMLAN). The GM MDI communicates using all of the existing GM protocols, the same as the Tech 2:

- UART
- Class 2
- KWP2000
- GMLAN (CAN)

For future use – Global architecture coming in July 2008 for MY 2009 will use a total of 4 GMLAN links. (This is a limited rollout in MY 2009.) Global architecture adds a medium speed bus and an expansion bus. The Tech 2 and CANdi module can run only low and high speed, and won't work on the 4 GMLAN link system for diagnostics or programming. The MDI will have this capability.

HOW THE MDI IS CONNECTED



A Mini USB connector

B Ethernet connector

There are three ways to connect your GM MDI to the PC that will be delivering your reprogramming events. They are:

1. USB version 1.1/2.0

- Connected directly to your PC or laptop for first-time setup
- Advanced configuring
- Updating MDI software
- Programming or future diagnostics

TIP: Any PC can be used, so long as it meets the PC Hardware Specification located at this link:

http://www.gmde.net/standards.cfm

IMPORTANT: If you choose one of the following two advanced connection methods, refer the task to your dealership's IT specialist.

2. Wired Ethernet 10/100/1000

 Connected to the service LAN for programming or future diagnostics

3. Wireless Ethernet 802.11 B/G

 Connected to the service LAN for programming or future diagnostics

You will use the USB connection as the initial connection to set up your MDI and to configure the other two optional connections. You can also reprogram with this connection.

Deciding Which Connection to Use

The USB connection is limited to about 10 feet of cable. To obtain a greater distance from the PC to the MDI, you will need to use wired Ethernet or wireless Ethernet. If you don't have a wireless access point in your shop, you will probably use the wired version.

In order to use these other options, some additional equipment may need to be obtained.

- To use wired Ethernet, you will need:
- 1. Cat 5e or Cat 6 Ethernet cables
- 2. An open RJ45 port that connects to the service LAN
- or
- 3. An unmanaged switch (see table)
- 4. Additional IP addresses from your Dealer Management Service if they are required. (This may be required for static IPs only.)

The unmanaged switch must be placed in a location with convenient access to a plug and the MDI Ethernet cable. Your shop may already have such a device and all you need to do is plug into it. This switch must be on the same network as your MPI PC or your service network. This is where your programming information will come from.

SUPPORTED SWITCHES

Linksys 8-Port 10/100 Switch	
IVIOUEI INO. SD206	
HP ProCurve 8-Port Switch 408	
Linksys 16-Port 10/100 Switch	
Model No. SD216	
HP ProCurve 24-Port 1400-24G	

To use a wireless access point, you will need:

- 1. Wireless access point (see table)
- 2. Cat 5e or Cat 6 Ethernet cables
- Additional IP addresses from your Dealer Management Service if they are required. (This may be required for static IPs only.)

SUPPORTED ACCESS POINTS

Cisco 1100 Series

HP ProCurve Wireless 420

 Thanks to Matt Singer and Mark Palmer



Retainer locations



Top tab



These tips show how to remove the seatback on the new fullsize utilities. The retainers are very robust, and can be disengaged without damage, following these steps.

1. On the right and left sides of the upper portion of the seatback, insert a flat bladed tool (trim stick) between the seatback and the seat cushion to release the retainer tabs. Push the tool against the tabs to release.

TIP: There is no need to pry on the seatback with the tool.

- 2. Carefully flex the seatback outward to slide the top tabs out of the retainer slots.
- 3. On right and left sides of the lower portion of the seatback, insert a flat bladed tool between the seatback and the seat cushion to release the retainer tabs.
- 4. Carefully pull back on the seatback. All released tabs must be clear of obstructions.
- 5. On the right side of the seatback, place your fingertips underneath the seatback. Apply a small force inward with your palm to release the tab. Carefully lift up the right side of the seatback.
- 6. On the left side of the seatback, place your fingertips underneath the seatback. Apply a small force inward with your palm to release the tab. Carefully lift up the left side of the seatback.
- Thanks to Adam Freeman and Dave Roland



Side retainer





Releasing upper retainer



Flexing upper seatback





Flexing lower seatback

VME Ends

GM Service Voice Mail Express (VME) ends on June 1, 2007. When Service VME launched in 2000, it was the quickest way to get service information to dealers. With the present

capability to update service information in SI and DealerWorld daily, we are now able to quickly send a GM Messenger Message, and it can be printed or forwarded. Service VME messages will transition into GM Messenger Messages under the Functional Role: Service Manager.

TIP: Please continue to submit Field Product Reports using the process outlined in Bulletin 02-00-89-002F. Field Product Reports are extremely important to the product problem resolution process.

- Thanks to Ron Caponey

Panoramic Sunroof Update

A recent bulletin 05-08-67-014 update provides general guidelines to noise issues with the panoramic sunroof in the Pontiac G6. Here are highlights of two of the conditions described in the bulletin.

U.S. dealers, also refer to Tech Assist course 50250.17T1 Multi-Panel Panoramic Roof Adjustments for more information.

Creak/Snap/Pop Noise

This condition occurs while driving over bumps and comes from the sunroof module, and is usually caused by roof interaction with the fasteners.

TIP: The bulletin specifies slightly different repairs depending on whether the vehicle was built before or after January 1, 2006, when mylar washers were added to production. For vehicles without the washers, the bulletin explains how to install them.

For all vehicles, lubricate the 10 locations of the mylar washers using GM Super Lube (p/n 12346241).

TIP: Use Super Lube only. No fastener adjustments are necessary unless noise is still present after lubrication.

TIP: It is necessary to lower the headliner before spraying the lubricant. Follow the bulletin procedure to properly cover all interior trim to avoid damage from the lubrication process.

Wind Noise

It is important to understand where the wind noise is coming from.

Apply masking tape to the outside of the roof in the suspected area, then test drive the vehicle. After identifying the location, refer to the bulletin for the recommended repairs.

From the front - could be leak from roof to seal or seal to front glass panel.

Roof to seal - adjust front mounting bolts

Glass to seal - adjust front glass panel

From sides – adjust side mounting bolts

From corners - adjust corner mounting bolts

Refer to the bulletin for additional details on repair procedures and updated module seal and cross car glass panel foam part information.

TIP: Some leakage is normal at the T-joints by design.

TIP: Do not order an entire module to obtain the updated seal.

TIP: Call Webasto Sunroof at 1.800.995.5911 for persistent issues before replacing the module.

- Thanks to Ashmi Haria and Ray Romeo



Cross car glass panel foam

Body Control Module (BCM) Grounds

This information applies to 2006-07 Buick Lucerne, Cadillac DTS, Chevrolet Impala, Monte Carlo, 2007 Cadillac SRX, Chevrolet Avalanche, Equinox, Silverado, Suburban, Tahoe, GMC Acadia, Sierra, Yukon, Yukon XL, Yukon Denali, Yukon Denali XL, Pontiac Torrent, and Saturn Outlook.

It is important to properly install and verify BCM grounds whenever a BCM is serviced or replaced.

Before disconnecting a BCM ground, disconnect the negative battery cable, or disconnect all other connections to the BCM first. Failure to disconnect all powered connections before disconnecting the ground may result in damage to the BCM.

If the BCM grounds are not correctly installed, damage to the BCM may occur. Other systems controlled by the BCM may also become inoperative or intermittent:

- Interior lighting
- Remote Keyless Entry
- Door locks
- Power windows and mirrors

TIP: Refer to bulletin 07-08-47-004 for more information.

 Thanks to Peter Vadhanasindhu and Dennis Richey

Passenger Sensing System Correction

There was an error in the explanation of the flashing codes in the Passenger Sensing System article on page 7 of the April issue. Here is the correction, shown in red.

Then it will display the most significant digit of the DTC by commanding the OFF telltale to flash for a number of times representing the digit.

After the most significant digit has been displayed, the system will display the least significant digit by flashing the ON telltale.

For example, DTC 36 will flash the OFF telltale 3 times, then the ON telltale 6 times.

Digit	Most	Least
Code	3	6
Telltale	OFF	ON

Thanks to Esther Anderson



Recreational Vehicle and Trailer Towing

This information applies to the 2007 Saturn Outlook and GMC Acadia. Details will be covered in an upcoming bulletin. Here are highlights.

Towing with Vehicles without Trailer Provisions (RPO V92)

These vehicles can tow a maximum trailer weight of 2,000 lb. (907 ka).

These vehicles must be modified by installing a new underhood bussed electrical center (UBEC) to provide full functionality for 4 circuits: ground, tail lamps, RH and LH stop/turn lamps.

Underhood Bussed Electrical Center			
Replacement UBEC	Original UBEC		
25784721	25784722		
25784723	25784726		
25784725	25784724		

To find the original part number, remove the UBEC and look at the side of the UBEC.

TIP: This UBEC replacement should be performed only for customers who perform trailer towing.

Towing with Vehicles with Trailer Provisions (RPO V92)

These vehicles can tow a maximum trailer weight of 4,500 lb. (2.041 kg).

It is necessary to modify the wiring harness at the Body Control Module (BCM).

Disconnect the X7 connector from the BCM and remove terminal pin 3 (dark blue wire, 38 circuit). Re-connect the X7 connector.

vire into the wire at BCM connector X6 nin 2 Splice this (lig

ht green wire, 24 circuit).	Before sta		
Powertrain	Rear Wheels on Dolly	Front Wheels on Dolly	All Four Wheels on Ground (Dinghy)
3.6L V6 (LY7) Engine Front-Wheel Drive 6T75 Six-Speed Automatic Transaxle (MY9)	No	Yes	Yes*
3.6L V6 (LY7) Engine All-Wheel Drive 6T75 Six-Speed Automatic Transaxle (MH6)	No	No	Yes*
Inlimited miles at 65 mph (105 kr	m/h) To avoid v	obiclo damago	never exceed 65 mph

mited miles at 65 mph (105 km/h). To avoid vehicle damage, never (105 km/h). The repairs would not be covered by the warranty.



Recreational Vehicle Towing (Dinghy Towing)

Recreational vehicle towing means towing the vehicle behind another vehicle, such as behind a motorhome.

Dinghy towing -- towing the vehicle with all four wheels on the ground

Dolly towing -- towing the vehicle with two wheels on the ground and two wheels on a dolly

TIP: To avoid battery rundown while towing, disconnect the battery before towing.

TIP: Vehicles with a 6-speed automatic transmission that are dinghy towed must be started and run for a minimum of five minutes at the beginning of each day and at each fuel stop.

IMPORTANT: The owner must observe all procedural steps in the bulletin when dinghy towing.

arting, do the following steps:

- Secure to tow vehicle.
- Ignition OFF.
- Set parking brake.
- Ignition to ACCESSORY.
- Shift transmission to NEUTRAL (N).
- Disconnect negative battery cable. Release parking brake.
- At the destination, do the following steps:
- Set parking brake.
- Reconnect negative battery cable.
- Ignition OFF.
- Remove key from ignition.
- Thanks to Gary McAdam

Bed Rail Stake Pockets

Some owners of a 2007 Silverado or GMC Sierra may comment on the openings under the bed rails near the stake pockets. While the openings on the new Silverado and Sierra are more visible, the Classic Silverado and Sierra had similar openings around the stake pockets. The openings are required for the unique forming process of the new pickup box side inner stamping. The new design has equivalent performance for dust and moisture intrusion when compared to the previous design.

TIP: The pickup box is not designed to be sealed completely from dust or moisture intrusion.

- Thanks to Jim Will



Flashing A/C Indicator Lamp

This information applies to the following vehicles:

2007-08 Chevrolet Silverado, Avalanche, Tahoe, Suburban, Equinox, GMC Sierra, Yukon/XL, Acadia, Cadillac Escalade/ESV/EXT, Saturn Outlook, Pontiac Torrent

2006-08 Chevrolet Impala

2006-07 Chevrolet Monte Carlo

2008 Buick Enclave, Saturn VUE

Some owners may comment that the A/C indicator lamp on the HVAC control head flashes then turns off after the A/C button is pressed. Or the recirculation indicator on the HVAC control head flashes then turns off after the recirculation button is pressed.

This is normal operation for the HVAC control module and indicates that the A/C or recirculation function is not available at the time the button is pressed.

Reasons A/C may not be available

- Ambient air temperature is too low (if equipped with Ambient Air Temperature Sensor)
- Vehicle voltage less than 9.5V
- Refrigerant pressure too low
- Refrigerant pressure too high
- Engine coolant temperature too high
- Engine is not in RUN
- HVAC control head is in the OFF position

Reasons Recirculation may not be available

Mode switch in Floor, Defog, or Defrost mode

TIP: Calibrated values vary by vehicle. Consult the appropriate vehicle SI for detailed HVAC description and operation.

The reason(s) A/C is presently disabled can be viewed with the Tech 2 by navigating to the HVAC Data display and viewing the A/C Permission parameter.

Do not replace the HVAC Control Module for a flashing A/C indicator or flashing Recirculation Indicator, as this is normal operation.

 Thanks to Michelle Delaporte, Jeff Garfield and Marty Case

Water Leak in Right Floor Area

The owner of a 2003-07 Saab 9-3 may comment on wet carpet on the right side floor. An area under the bulkhead cover on the passenger side may have had sealer improperly installed.

This condition could cause a leak at the A-pillar that could allow water into

the front foot well and rear floor. The leak path is down the A-pillar to the front floor and then rearward underneath the carpet and insulation collecting in the rear floor area, which is lower than the front.

Check the right rear corner of the engine compartment under the bulkhead cover for missing sealant. Also check the A-pillar behind the glove box from the passenger foot well side for missing sealant.

If no sealer is present at either location or there are skips in the sealant, remove the exiting sealant, clean the surfaces and apply new sealant. Test for leaks.

Thanks to Jeff Gorenflo





Seat Belt Stop

This information applies to all GM vehicles. All seat belt retractor assemblies contain a stop button. If a stop button becomes damaged, the button can be replaced by ordering a replacement button through the GM parts catalog. The seat belt retractor assembly does not need replacement.

Button Replacement

Refer to document 1924486 in SI for the complete replacement procedure. If the replacement is a warranty claim, use labor code C9098 when submitting the claim.

- Thanks to Joel Ebner



Lower Timing Gear Tensioner Holding Tool Reminder

Observe this reminder when performing the procedure covered in the March 2007 *TechLink* article on the Lower Timing Gear Tensioner Holding Tool Tips.



Carefully follow the repair instructions outlined in Bulletin 06-06-01-17C to properly use the Lower Timing Gear Tensioner Holding Tool (EN48464). Failure to properly insert and secure the holding tool as instructed in the bulletin may result in a ratchet out movement of the timing chain tensioner and the need to perform additional repair steps not covered by the warranty repair time.

- Thanks to Duane Raymond

Car Issues – Fix It Right the First Time

Model Year(s)	Vehicle Line(s) / Condition	Do This	Don't Do This	Reference Information / Bulletin
2003-06	CTS – Squeak/creak noise in front end at slow speeds while braking or turning	Intall new insulating spacer and rate washer	Don't replace entire control arm	06-03-08-008
2003-06	ION – No crank or no start, codes set	Codes set – replace ignition switch. Service part installed – Install new BCM	Don't replace BCM unless ignition switch previously replaced	04-08-45-005C
2003-07	Saturn VUE, Chevrolet Equinox, Pontiac Torrent – Ignition lock cylinder sticks or binds	Clean ignition cylinder lock and housing	Don't replace ignition cylinder lock and key	06-02-35-016
2007	Cobalt, HHR, Solstice, ION, VUE, SKY – Reduced volume when tuning to AM, loss of volume after signal strength reduction	Reprogram radio	Don't replace radio	06-08-44-030
2006	Impala/Monte Carlo, DTS, Lucerne – Charge Light on/Battery message on DIC, codes set	Reflash BCM	Don't replace battery current sensor, generator or BCM	06-06-03-006
2006-07	Lucerne – Poor headliner fit in rear	Replace fasteners	Don't replace headliner	PIC4189
2005-07	STS with Navigation Radio (RPO YQ4) – Numerous operating conditions	Reflash radio	Don't replace radio	05-08-126-001A
2002-07	ION,VUE, Equinox, Torrent, G5, Pursuit (Canada), Cobalt – Front bottom seat cover loose	Repair seat cover	Don't replace seat cover	06-08-50-005A
2004-06	Grand Prix, LaCrosse, Impala/MC – Low fluid in P/S system	Perform dye test to confirm leak	Don't assume leak	05-02-32-007C



Truck Issues – Fix It Right the First Time

Model Year(s)	Vehicle Line(s) / Condition	Do This	Don't Do This	Reference Information / Bulletin
2002-06	TrailBlazer EXT, Envoy XL and Envoy Denali XL – Repeated liftgate glass breakage	Repair rear liftgate hinges, replace rubber glass bumpers	Don't replace entire liftgate assembly	06-08-66-011A
2002-07	RPO LL8 engine – Misfire, SES light, codes set	Inspect for build-up on spark plug boot, replace AIP seal	Don't return vehicle without replacing AIP seal	06-06-04-048
2006-07	Rainier, TrailBlazer, TrailBlazer SS, Envoy, Envoy Denali, 9-7X – Shift indicator does not show correct gear	Adjust shift cable	Don't replace shift cable, P/N switch, or shift assembly	PIT4108A 06-07-30-029
2005-07	TrailBlazer, Envoy, Rainier, 9-7X – Headliner drops down and comes loose around sunroof opening	Repair headliner	Don't replace headliner	06-08-110-003A
2004-07	Fullsize Utility with 3rd row seats – Third row seat makes squeak noise in tumble position	Position escutcheon, install foam flock tape	Don't replace seat adjuster	07-08-50-004
2004-07	Fullsize Utility and Pickup with 20 and 22 inch wheels – Center caps loose and/or falling off	Install center caps in correct orientation	Don't replace center caps	07-03-10-007



Powertrain – Fix It Right the First Time

Model Year(s)	Vehicle Line(s) / Condition	Do This	Don't Do This	Reference Information / Bulletin
1997-2007	Light Duty Trucks, H2, H3, 9-7X with 4WD/AWD – Transfer case speed sensor wire harness connector comes loose or connector retainer clip breaks	Use improved connector	Don't use old part	06-04-21-001
2002-06	Rendezvous, Terraza, Venture, Uplander, Silhouette, Aztek, Montana, RELAY – Moan or groan from RDM during turning maneuvers	Perform refill procedure	Don't replace RDM if it passes tests in SI	06-04-114-001
2005-06	Malibu/Maxx, G6, Montana, Terraza, Rendezvous, Uplander, RELAY – Extended crank, starter engaged after start, Iow oil pressure light on, fuel gage inaccuracies	Use service calibrations	Do not replace EGR valve (bulletin 06-06-04-003B or 06-06-04-002A)	06-06-04-049

 Know-How Broadcasts for July
 10207.07D Emerging Issues
 July 12, 2007
 9:30 AM and 12:30 PM Eastern Time

 New Model Features
 For Web NMF courses, log on to the GM Training Website (www.gmtraining.com). Select Service Know-How/TechAssists from the menu, then choose New Model Features for a selection of courses.
 III



– Thanks to Tracy Rozman