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# **Military Assistance Stepped Up**



Erwin Raphael, HMA Director of Engineering and Quality, recounts his days in uniform and offers the veterans advice about the dealership interview process and transitioning to civilian life.

ecently, Hyundai Motor America took another step forward toward helping veterans transitioning from military service to employment in civilian life. The Western Regional Technical Training Center served as host to 13 current and previous military personnel. The group gathered to participate in the Hyundai's first Bronze Level training course, Hyundai Technician Orientation. The class was dedicated to training military.

As is the case with many veterans, who are always at the ready, this group had gone over and above the required prerequisite web-based Technician Orientation. Many had already taken on several Silver Level Courses online. They confirmed that they are willing to do even more to land a job in a Hyundai Dealership.

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### Military Assistance Stepped Up

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The Western Region was the chosen location because it's home to Hyundai's Military Liaison, Robert Kortje, (see TechNet Times Volume 22, Issue 6) himself a former Marine who served 20 years. Robert heads up Hyundai's military initiative called the Veteran Employment Transition program – VET, for short. Though still in its earliest stages, the program has registered over 150 veterans on the HyundaiCareers.com dealer personnel recruiting website. Many have posted resumes and applications and are willing to relocate to a dealership looking for the attributes military training brings, such as: a team orientation, punctuality, discipline, flexibility, leadership skills, diversity and technology familiarity.

For our efforts, Hyundai was named a "Military Friendly Employer<sup>TM</sup>" by *GI Jobs* magazine. We intend to continue building on the momentum Robert has established. This program aligns with Hyundai's overall goal of becoming the "best loved" car company in the world.

Your dealership can help by considering how a veteran might fit into your team. HyundaiCareers.com is a great resource for candidates for Technician, Service Advisor and Parts Counterperson job postings. If your Service Manager or Parts Manager has not registered on



Two veteran trainees listen intently as Technical Training Instructor Steve Taylor leads them in GDS operation.

the site, it's easy to do and worth the effort. A registration provides access to the prospects listed there and



In the Western Region Training Garage, veterans learn about Hyundai transmissions.

## New PDI Form Designed for the NC Santa Fe Now Available

The new Santa Fe PDI form has been loaded onto both Hyundaidealer.com and Hyundaitechinfo.com. Please note that this form is slightly different than the existing PDI form currently used for Santa Fe Sport. Make sure your Technicians download and print out the correct form specific to the vehicle being inspected for PDI. All forms

have been updated to include a form that allows you to schedule follow up activity after your initial PDI. Use the graphics included here.

Also for every PDI, check the version date printed on the top of the form you are using. Always use the latest version.

			REVISIO	ON DATE		
Model	1	2	3	4	5	6
Accent	10/5/2012	10/19/2012	12/7/2012	1/14/2013	3/29/2013	
Azera	10/5/2012	10/19/2012	1/14/2013	3/29/2013		
Elantra Sedan/Coupe	10/5/2012	10/19/2012	11/2/2012	12/7/2012	1/14/2013	3/29/2013
Elantra GT	10/5/2012	10/19/2012	12/7/2012	1/14/2013	3/29/2013	
EQUUS	10/5/2012	10/19/2012	1/14/2013	3/29/2013		
Genesis Sedan	10/5/2012	10/19/2012	12/7/2012	1/14/2013	3/29/2013	
Genesis Coupe	10/5/2012	10/19/2012	12/7/2012	1/14/2013	3/29/2013	
Santa Fe	3/8/2013	3/20/2013	3/29/2013	4/19/2013		
Santa Fe Sport	10/5/2012	10/19/2012	1/14/2013	3/29/2013		
Sonata	10/5/2012	10/19/2012	12/7/2012	1/14/2013	3/29/2013	
Sonata Hybrid	10/5/2012	10/19/2012	3/29/2013			
Tucson	10/5/2012	10/19/2012	12/7/2012	1/14/2013	3/29/2013	
Veloster	10/5/2012	10/19/2012	12/7/2012	1/14/2013	3/29/2013	



# **Fix it Right Online Tutorial Contents**

ix It Right Section at HMAService.com provides a wide variety of short instructional tutorials covering dozens of topics. Access and navigation are easy. The process only requires three steps:

- **1.** Click on the Fix It Right logo at the lower left of the HMAService.com welcome screen after logging in.
- **2.** An index appears listing the full offering under each system. You can search this index for model and year to refine your search or just click the system listed in

the index to expand the listing and display the various titles covering that system. An example of the index screen is shown at the top of the following page.

**3.** Click on the title to launch your selected Fix It Right tutorial.

🕢 НҮШПДАІ	Home	tail Search   Vehicle Info   Site Requ	irements   Contact Us	Links Page   Help   LogOut
User Information	Service Information Technical Training	ng Diagnostic Tools	Tools & Equipm	nent and a second second second
Welcome! HMA SERVICE TRAINING LogOut	Hyundai Motor America Service Information			A CONSTRUCTION
▶ <u>Shop</u>				
► <u>ETM</u>	Service News		More >	Pre-Delivery
▶ <u>DTC</u>	<ul> <li>3/21/2013 New PDI Form Designed for the NC San</li> </ul>	ta Fe Now Available NEW!		Inspection Forms
▶ <u>Symptom</u>	<ul> <li>1/15/2013 PDI Form January Opdates</li> <li>11/30/2012 Special Offer - Hyundai Car Care Expre</li> </ul>	ss Cart with Comp		Parts Accessory
▶ <u>Replace</u>	<ul> <li>11/28/2012 2013 SELECT CAR CARE PROMOTION</li> <li>11/29/2013 NEW IOS Training on TACS</li> </ul>	I P16		Weight
▶ Component				GDS Support
Bluetooth Compatibility	DCS More >	TSB	<u>More &gt;</u>	GDS Notice
Telematics Infomation	<ul> <li>3/27/2013 [FS13] Service Campaign TM</li> <li>2/22/2013 IV(12) Service Campaign TI.</li> </ul>	<ul> <li>3/27/2013 [RB13] 13-AT-006 /</li> <li>3/21/2012 [HD13] 13 AT-005</li> </ul>	AUTOMATI.	► GDS Tips
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Quick Site	<ul> <li>3/6/2013 [FS13] Service Campaign TN</li> <li>3/6/2013 [FB13] Revised Service Campaign Company</li> </ul>	<ul> <li>3/8/2013 [VI13] 13-BE-003-1 E</li> <li>2/8/2013 [UD12] 13-AE-005 AI</li> </ul>	BACKUP	
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	<ul> <li>3/22/2013 [VI13] 13-01-006-1 VI EQUU</li> <li>3/8/2013 [LM13] 13-01-015 TUCSON (L</li> </ul>	<ul> <li>1/11/2013 [all] TechNet - Vol. 3</li> <li>11/13/2012 [all] TechNet - Vol. 3</li> </ul>	. 22 I	
Hyundai Dealer	= 3/8/2013 [FS13] 13-01-016 VELOSTER	= 10/17/2012 [all] TechNet - Vol	. 22 I	
Hyundai TACS	<ul> <li>3/8/2013 [UD13] 13-01-017 2013 MY E</li> </ul>	9/10/2012 [all] TechNet - Vol.2	22 IS	
P lech Info				

### Below is the listing of the titles available in the Fix It Right feature:

### **Automatic Transaxle**

- *Stall Testing* Defines procedures, provides stall tests specifications for various models and refers to a TSB on the topic
- PO708 Covers "Transaxle Range Switch Current High" DTC diagnostic procedures and lists related TSBs
- MIL and Brake Light on Outlines procedures for Entourage MIL and Brake Light illuminated and/or DTC P0722. Refers to condition on other models as well.
- Adaptive Learning Defines and summarizes conditions and procedures for Hyundai Transaxle Control Modules (TCM) and Powertrain Control Modules (PCM)

### **Body Electrical**

- *Voltage (DVOM)* Explains how to test voltage with a digital volt meter
- *Tucson Parking Lamps* Discusses the fusing for the Tucson Parking Lamps and its connection to the I/P Junction Box.

*Tucson Battery Discharge* – Summarizes TSB 07-90-007 for a 2006 & 2007 Tucson Battery Discharge Condition

Sonata Parking Lamps – Indicates proper routing to test circuits.

	Detail Search   Vehicle Info   Site Requirements   Contact Us   Links Page   Help   LogOut
Service Information         Technical Training         Diagonal           New Items         Shop         ETM         DTC         TSB         Fix It Right         Symptom         R	Tools & Equipment           Replace   Component   ECU Upgrade   Campaign   OBD-II   DCS   OM
Model Year or Enter Vin#	go Popup Viewer
Automatic Transaxle (4) Body Electrical System (21) Brake System (2)	Service Information Tips
Emissions Control System (2)     Engine Electrinal System (11)     Voltage (DV-M)     Resistance (DVOM)     Parasitic Draw     Oil Control Valve Operation & Diagnosis     No Cruise Control     Genesis EPMS     GDS Flight Record     Entourage Crank No Start     Cruise Control Resume Button Functionality	Welcome to the online service information system used by Hyundai Motor America. From the top of the screen, please select the publication contents you would like to view. Next, make your vehicle selection. Note that the more narrowed down your choices are, the shorter the time it will take to display the contents. Selecting the vehicle model and year will automatically populate the contents pane with publication contents for chosen vehicle. If you would like to conduct a word search on service information documents, click Search in the upper right and the Search pane will appear. Type search terms and select the publications to search in (defaults to all) and selected vehicle model, then click Search. Click on a result title to open document.
Battery Testing Midtronics     Amperage (DVOM)     Enzine Machanical Studiem (8)	3. Turn the steering wheel so th See Image below
Fighter Mechanical System (6)     Fuel System (15)     General Information (14)     Heating, Ventilation and Air Conditioning (4)     Hybrid Control System (1)     Restraints (3)	4. Select a model and ELECTR
Steering System (4) Suspension System (2)	The image on the left shows an icon with a red square, green circle and blue triangle. This icon indicates an SVG (Scalable Vector Graphic) image on a computer that does NOT have the SVG Viewer Plug-in. Please no to the Site Requirements page

Fix It Right Online Tutorial Index Window

- Seat Heater Module Location Describes in detail the Seat Heater Module location on a 2009-10 Sonata
- Santa Fe Auto Temp Sensor Details proper diagnosis and repair of a 2007 Santa Fe Inaccurate Ambient Temperature Sensor according to TSB 07-90-001
- *Resistance (DVOM)* Explains how to test resistance with a digital volt meter
- *Programming (MC) Remotes* How to use the GDS to save transmitter codes on remotes
- *Power Door Locks Inoperative* Details conditions and diagnostic information from TSB 10-01-017
- *Parasitic Draw* Describes parasitic draw and outlines diagnostic procedures for it
- *Pairing a Bluetooth Phone* Describes method for pairing a phone to a port installed Bluetooth system
- *No AM Radio Reception* On a 2010 Tucson, recommends installation of helical antenna
- Horn Answer Back Logic Update Highlights TSB 09-BE-014 for this condition on a 2007-08 Entourage
- *GDS Flight Record* Describes how to perform a flight record using the GDS
- *Entourage Sliding Doors* Provides an interactive wiring diagram for troubleshooting the power sliding doors on the Entourage.

- Entourage Crank No Start Gives Testing and repair procedures for a 2007 Entourage no crank condition
- Bluetooth Quick Reference Describes port installed Bluetooth system
- BCM Controlled Electrical Systems Electrical System diagnostic tips
- *Battery Drain Codes B1602 & B1603 –* Lists control Modules that can set these codes
- Amperage (DVOM) Explains how to test amperage with a digital volt meter

### **Brake System**

- *ESC Variant Coding* Describes service protocol for components requiring variant coding
- *Engine Lacks Power, ESC Light Flashes* Discusses how tire mounting may affect this condition.

### **Emissions Control System**

- *Oil Control Valve Operation & Diagnosis* Suggests when the Cam Phaser actuation test should be performed with the GDS.
- *Oil Control Valve* Describes OCV operation and give repair information for related DTCs.

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### Fix it Right Online Tutorial Contents

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### **Engine Electrical System**

- No Cruise Control For diagnosing Vehicles with Manual Transmission and no Cruise Control Engagement
- *Genesis EPMS* Details the Electrical Power Management System features and operation
- Cruise Control Resume Button Functionality Explains operation procedures for the Cruise control buttons
- *Battery Testing Midtronics* Shows how to use the Midtronics Battery Tester

### **Engine Mechanical System**

- *Vacuum Testing* Offers a series of videos demonstrating various aspects of vacuum testing
- *Tucson Engine Cover* Indicates which packages come equipped with a cover and how to recognize them
- *Thermostat Housing* Offers tips for replacing the Thermostat housing
- *Hard Start, Rough Idle* Gives advice for conditions on Throttle Body – Sonata (NF), Santa Fe (CM), Azera (TG), Veracruz (EN), Entourage (EP), Genesis (BH / BK).
- *Engine Leak-Down Test* Reviews steps for performing a Lean Down test
- *Engine Compression* Reviews steps for performing a Lean Down test

### **Fuel System**

- *Resetting Fuel Trim Adaption* Explains the GDS procedure used after a fuel trim adjustment
- **Readiness Monitors** OBD-II Drive Cycle States the procedure is to be performed in the event the Readiness Monitors are not set during a State Emissions test
- *Fuel Quality Testing* Introduces the BG fuel kits and its test procedures
- *Extended Crank Hard Start –* Tips for this condition on a 2008 HD Elantra ETC Initialization
- *ECM-PCM Software Updates* Lists model applications for software updates up through 2011
- DTC P061B and P161B Reviews engines and conditions where these codes may occur
- Adaptive Learning Offers a comprehensive discussion about Adaptive Learning
- *VIN Decoder* Has various versions of the VIN Decoder guides.
- *Techline Repository* Explains how to upload information to the Techline Repository
- *GDS-Fault Code Searching* Shows how to search for fault codes on the GDS

- GDS Users Manual Location How to find the GDS User's Manual on the GDS
- *GDS Firmware Update* Indicates where to look on the GDS to find VCI or TPMS module firmware updates
- *Engine Start-Stop Button* Describes Start-Stop Button function and operation
- Bluetooth Language Selection Reviews Voice Recognition Language Selection on a 2010 Genesis Coupe
- *Bluetooth Installation* Lists harness connections and other general information for Port Installed Bluetooth systems.

### Heating, Ventilation and Air Conditioning

- *Genesis (BH) AC Compressor Actuation Test* Clarifies terminology on GDS used for the Genesis AC compressor actuation test
- *FATC Fahrenheit-Centigrade Change* Outlines Procedure to change reading from Fully Auto Temp Control,  $F^{\circ}$  to  $C^{\circ}$
- *Defogger Logic* Describes AC system logic used to minimize fogging and how to reset the logic.

### **Hybrid Control System**

*HEV HPCU Inter-Lock Circuit Connector Installation* – Shows detailed explanation of the connector installation

### Restraints

- **PODS Reset** Explains procedure when B1489 sets after not performing the PODS RESET
- *Front Impact Sensors* Show diagnosis for B1327 and B1332 on a 2007 Santa Fe.
- Azera PODS System description and correct connector location for Passive Occupant Detection Sensor

### **Steering System -**

- 2012 Azera (HG) Service Campaign Alignment & Vehicle Tracking Shows proper camber adjusting bolt installation and alignment procedure.
- *Steering Drift* Explains diagnosis and repair of drift condition
- Power Steering Whine Noise Emphasizes content of TSB 08-ST-001
- *Elantra (HD & FD) SAS Calibration* Defines SAS calibration procedure based on production dates.

### Suspension System

- *TPMS Warning Lamp* Electromagnetic Interference List external conditions that may influence the TPMS indicator lamp
- **TPMS GDS Tool** Offers a series of videos demonstrating various aspects of TPMS tool use

# **2013 Sonata HVAC Fan Speed Revision For Voice Recognition**

f the HVAC fan speed is at 4 bars or greater (fan speed ranges from 1~8 bars) and the PTT (Push-to-Talk) button is pressed to initiate a Voice Recognition session, a Bluetooth-connected call (incoming or outgoing) is initiated, or a Blue Link button is pressed, the HVAC fan speed will automatically slow to speed 4 during the Voice Recognition, Bluetooth, or Blue Link session. Upon completion of the VR, Bluetooth, or Blue Link session, the fan speed will resume to the previous setting.

### **APPLICABLE VEHICLES:**

2013 YF and YF-HEV equipped with Navigation, and FATC(Fully Automatic Temperature Control) produced on or after November 16, 2012.

### **PART INFORMATION:**

Part Description	Old Part Number	New Part Number
YF-Head Unit Assy – AVN	96560-3Q500	96560-3Q501
YF-Control Assy – Heater	97250-3Q200BLH	97250-3Q201BLH
YF-HEV – Head Unit Assy – AVN	96560-4R7004X 96560-4R7054X 96560-4R7064X	No Change
YF-HEV – Control Assy – Heater	97250-4RDB2BLH	97250-4RDB3BLH

NOTE: Combining new and old parts will only affect operation of the new software logic (reduction of fan speed during Voice Recognition, Bluetooth, or Blue Link session). This does not affect or change any other functions or operations.

### WARRANTY INFORMATION:

Normal warranty applies



Fan speed before Voice Recognition / Bluetooth / Blue Link session (max speed – 8 bars)



Fan speed during Voice Recognition / Bluetooth / Blue Link session (half speed – 4 bars)



Fan speed after Voice Recognition / Bluetooth / Blue Link session (max speed – 8 bars)

- NOTE: If the fan speed was reduced due to a Bluetooth call, note that after two minutes the fan will automatically return to its previous fan speed setting if the Bluetooth call/Blue Link session is still active.
- NOTE: The reduction in fan speed can be manually overridden by pressing the fan UP or DOWN button on the FATC controller during Voice Recognition/ Bluetooth/Blue Link session.



# **Fix-It-Right**

# AUTOMATIC TRANSAXLE HARSH AND/OR DELAYED UPSHIFT – GDS ANALYSIS

### This article supersedes TSB 13-AT-005 to revise the Op Code

### **DESCRIPTION:**

This procedure uses the GDS to analyze shift performance for the 2007-2010 Elantra Sedan and 2009-2012 Elantra Touring.

### **APPLICABLE VEHICLES:**

Model Years	Model
2007~10	Elantra (HD)
2009~12	Elantra Touring (FD)

### WARRANTY INFORMATION – No Trouble Found (NTF):

MODEL	OP CODE	OPERATION	OP TIME	CAUSAL P/N	NATURE CODE	CAUSE CODE
2007–10 Elantra Sedan 2009–12 Elantra Touring	45000RQ0	GDS Operation	0.3	00268 See Parts Catalog	N26	C11

### WARRANTY INFORMATION - No Trouble Found (NTF):

MODEL	OP CODE	OPERATION	ΟΡ ΤΙΜΕ	CAUSAL P/N	NATURE CODE	CAUSE CODE
2007–10 Elantra Sedan 2009–12 Elantra Touring	45000R00	Replace auto transaxle	4.0	00268 See Parts Catalog	N26	C11
	45000RQ0	GDS Operation	0.3		N26	C11

### **SERVICE PROCEDURE:**

- **1.** Check the ATF level when the engine is idling in "N" according to TSB 06-40-016. Adjust the ATF level as needed.
- **2.** Reset and relearn the adaptive values according to TSB 12-AT-017.
- **3.** Compare to a similar model and year vehicle. If the shift delay is:
  - Same as comparison vehicle: Return the vehicle to the customer
  - Longer than the comparison vehicle, continue with the diagnosis.

- **4.** Attach the GDS and check for Diagnostic Trouble Codes in both the "Engine" and "Automatic Transaxle" menu. If DTC are found, repair according to the appropriate TSB or shop manual.
- 5. Attach the GDS and select the following:
  - VIN and "A/T"
  - "Current Data"
    - Shift position
    - Pressure Control Solenoid A duty
    - Pressure Control Solenoid B duty
    - Pressure Control Solenoid C duty
    - On/off solenoid duty

### CAUTION: Ask an assistant to drive the vehicle as you monitor the GDS.

- **6.** Drive the vehicle and verify the condition:
  - Accelerate the vehicle and shift from 1-2-3-4 at 25 50% throttle (TPS).

### **REVIEW THE GDS DATA:**

### 1-2 UPSHIFT:

### Open the GDS program and select:

- VIN and "A/T"
- "Flight Record" and "Data Review"
- Select "Items List" (top right of screen) and select: "Shift Position", "Pressure control solenoids A, B & C" and "On/off solenoid".
- Click the "+" or "-" buttons to choose 0.5 sec./Div. or less.

- Select "Record" (on top right of screen)
- Select "PC Record" (on left of screen) and save the file.
- Move the cursor to the start of the shift and "Left click".
- Move the cursor to the end of the shift and "Right click".
- Read the Pressure Control Solenoid B elapsed time at the top right of the screen. If the 1-2 shift requires more than 2.0 seconds, replace the transaxle.

### **NOTE:** The Solenoid B elapsed time is important; the shape of the graph is not.



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### **Fix-It-Right**

### Automatic Transaxle Harsh and/or Delayed Upshift – GDS Analysis

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### 2-3 UPSHIFT:

### Open the GDS program and select:

- VIN and "A/T"
- "Flight Record" and "Data Review"
- Select "Items List" (top right of screen) and select: "Shift Position", "Pressure control solenoids A, B & C" and "On/off solenoid".
- Click the "+" or "-" buttons to choose 0.5 sec./Div. or less.

- Move the cursor to the start of the shift and "Left click".
- Move the cursor to the end of the shift and "Right click".
- Read the Pressure Control Solenoid A elapsed time at the top right of the screen. If the 2-3 shift requires more than 2.0 seconds, replace the transaxle.

# **NOTE:** The Solenoid A elapsed time is important; the shape of the graph is not.



### 3-4 UPSHIFT:

### Open the GDS program and select:

- VIN and "A/T"
- "Flight Record" and "Data Review"
- Select "Items List" (top right of screen) and select: "Shift Position, Pressure control solenoids A, B & C and On/off solenoid.
- Click the "+" or "-" buttons to choose 0.5 sec./Div. or less.

- Move the cursor to the start of the shift and "Left click".
- Move the cursor to the end of the shift and "Right click".
- Read the Pressure Control Solenoid B elapsed time at the top right of the screen. If the 3-4 shift requires more than 2.0 seconds, replace the transaxle.
- **NOTE:** The Solenoid B elapsed time is important; the shape of the graph is not.



# A/C Refrigerant Recharge Only Warranty **Claim Guideline**

or service repairs requiring A/C refrigerant recovery & charging use the following information when filing a warranty claim:

The non part code "ACGAS00000" must be used for the causal part whenever Op Code 09760A00 (A/C RE-FRIGERANT RECOVERY & CHARGING) is claimed and the following apply:

### ■ No cause was determined.

- No parts were replaced, other than refrigerant charging.
- Only A/C refrigerant recover & charging procedure were done.

NOTE: If the actual cause can be determined, then the applicable causal part number should be used.

### WARRANTY INFORMATION:

### **NO CAUSAL PARTS FOUND**

OP CODE	OPERATION	OP TIME	CAUSAL P/N	NATURE CODE	CAUSE CODE
09760A00	A/C REFRIGERANT RECOVERY & CHARGING	0.5	ACGAS00000	*	*

**NOTE:** Apply the applicable Nature and Cause Codes according to the results of the vehicle diagnosis.

### **CAUSAL PART DETERMINED**

OP CODE	OPERATION	OP TIME	CAUSAL P/N	NATURE CODE	CAUSE CODE
09760A00	A/C REFRIGERANT RECOVERY & CHARGING	0.5	Use Applicable Causal Part	*	*

NOTE: Do not use "ACGAS00000" as Causal P/N if suspect components were replaced for repair. Apply the applicable Nature and Cause Codes according to the results of the vehicle diagnosis.



#### April 2013

Volume 23 Issue 3 TechNet Times is published monthly by Hyundai Motor America's National Service Training & Support Department for Hyundai Dealership Technicians. The subjects covered in this publication are often one of a kind items, but they may help you to solve similar incidents. In all cases, the diagnostic procedures recommended in the Shop Manuals should always be performed first.

Please address all correspondence to:

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### **TECHNET TIDBIT**

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