HYUNDAI | NEW THINKING. NEW POSSIBILITIES.

TECHNET TIMES

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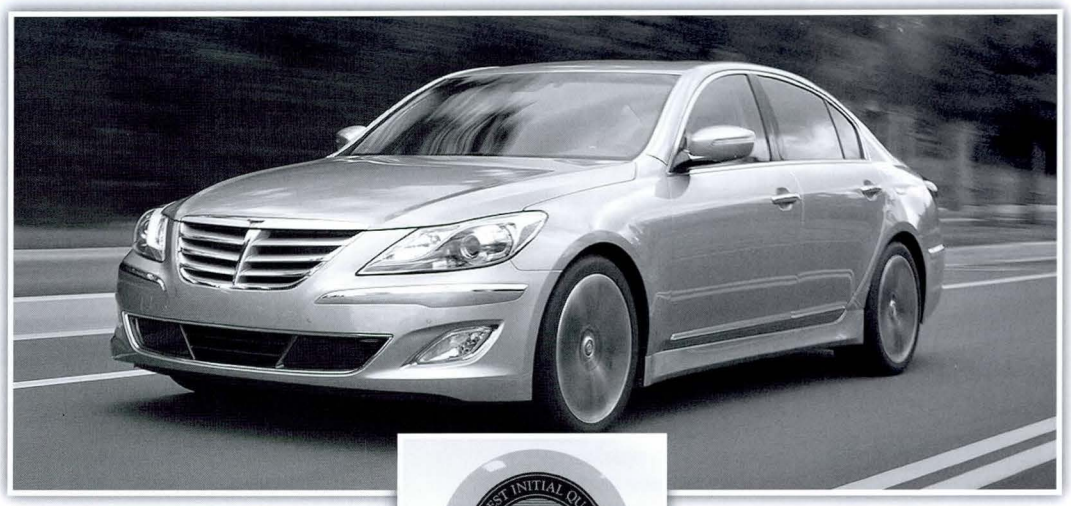
2013 Genesis Awarded IQS Trophy



The Hyundai Genesis received the trophy for the highest initial quality in the midsize premium car segment. The award comes from the J.D. Power 2013 U.S. Initial Quality Study℠ (IQS). The Initial Quality Study, now in its 27th year, serves as the industry benchmark for new-vehicle quality measured at 90 days of ownership. According to the study Hyundai Genesis owners reported fewer problems with their vehicles than any premium midsize car.

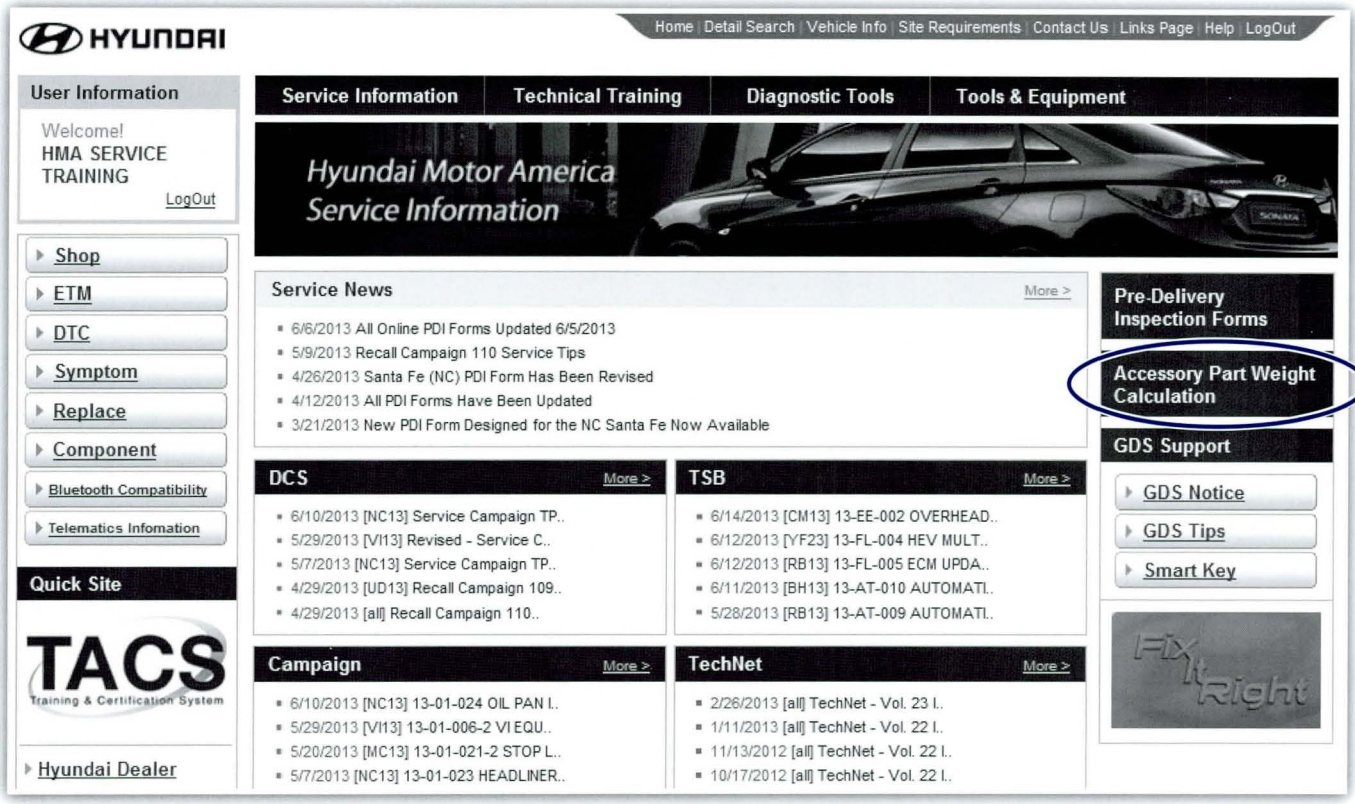
"Outperforming all of our competitors in the premium midsize car segment is a reflection of the dedication of all Hyundai team members," said Erwin Raphael, director of engineering and quality, Hyundai Motor America. "Awards like this demonstrate we're succeeding in connecting with our customers through an unprecedented combination of premium performance, technology, safety and quality."

In addition to Genesis's victory, the Hyundai brand substantially reduced problems per 100 vehicles and finished tenth overall, gaining eight rank positions year over year. The Hyundai overall score was 106 problems per 100 vehicles, seven problems fewer than the industry average. Accent, Sonata and Azera ranked second in their respective segments. The all-new Santa Fe ranked third in its segment.

Hyundai's showing is due in part to thorough Pre-Delivery Inspections performed by Hyundai Technicians. Thanks for your diligence in properly preparing Hyundai vehicles for our customers. Remember, PDI sheets are posted at www.hyundaitechinfo.com under a hot button located on the right side of the welcome screen that appears after login. The current revision date is listed at the top of each form. Compare your forms regularly with those online to ensure you are using the latest versions.

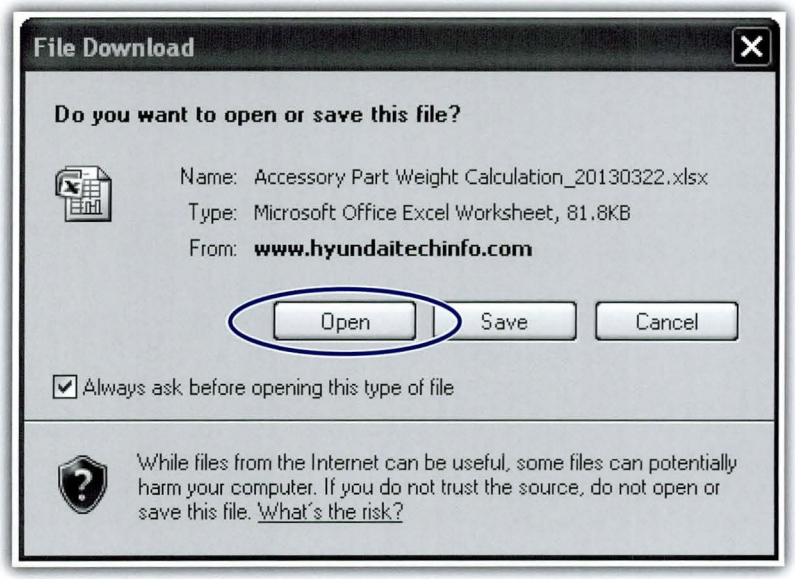
Load Carrying Capacity Reduced Calculator on HyundaiTechInfo.com

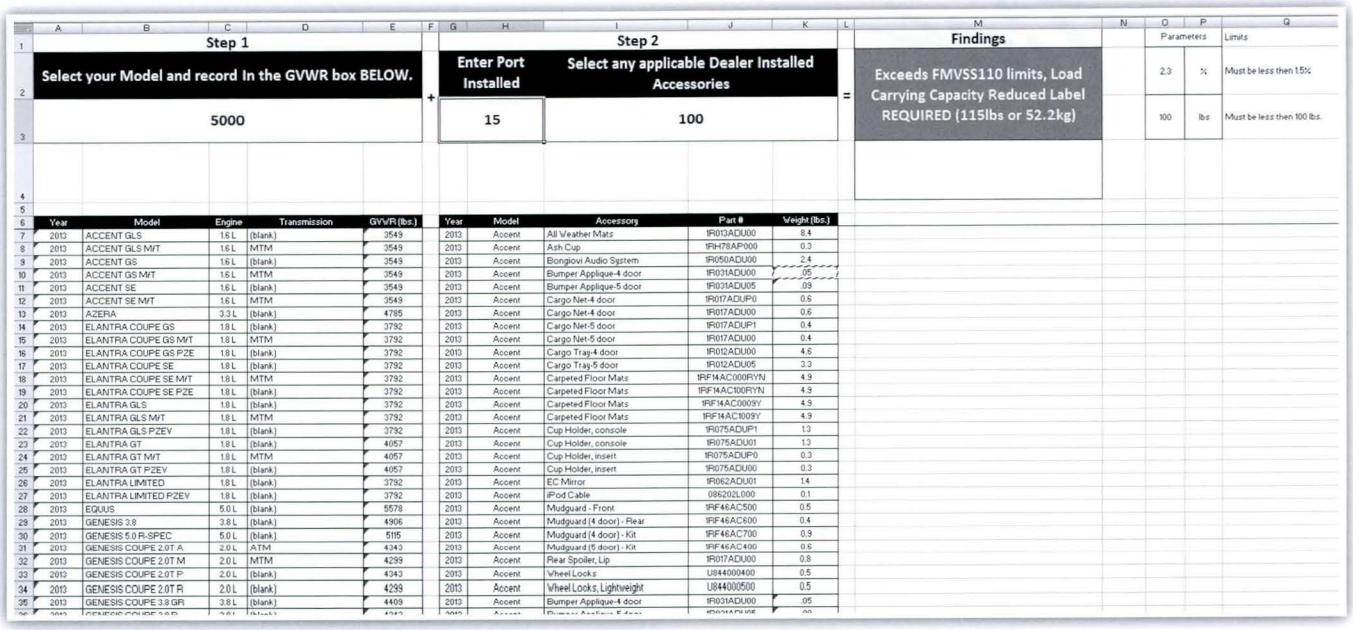
National Highway Traffic Safety Administration regulations require a label that shows the reduction in load carrying capacity from the installation of accessories. The threshold for correcting load capacity information indicated on tire placards occurs when vehicle weight has been increased before retail sale. This limit is the lesser of 1.5% of the Gross Vehicle Weight Rating or 45.4kg (100 pounds). Dealers must install a label when accessories are installed before or at the time the vehicle is first sold. The label does not need to be installed when accessories are installed at a later time.



When you click the Accessory Part Weight Calculation button you will be prompted by a pop up to determine whether to open an use the calculator or save to your computer. Select the "Open" option. **NOTE:** If you save it to your computer or GDS, you will need to verify that you have the latest parts listing each time you use the calculator.

NOTE: Since the calculator is an Excel spreadsheet, Microsoft Excel™ must be installed and functioning on your computer or GDS. When you click open, the Excel program is launched and the spreadsheet will appear.





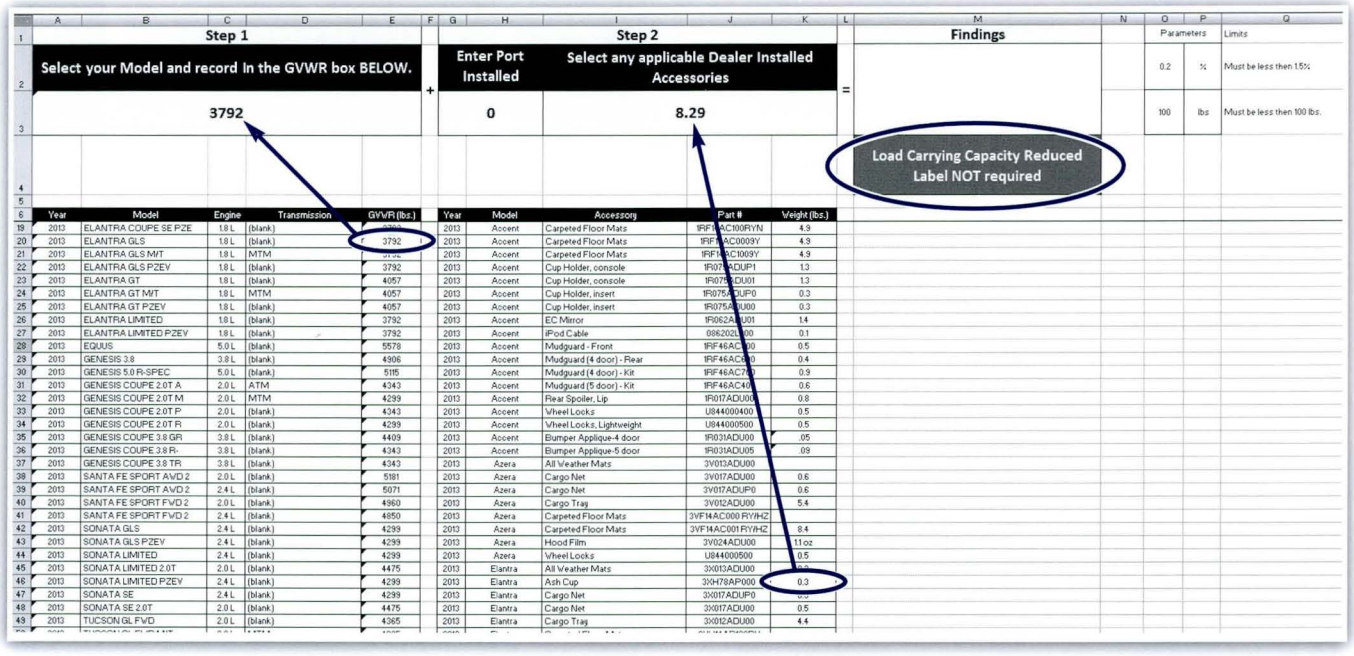
Step 1		Step 2		Findings	Parameters		Limits
Select your Model and record in the GVWR box BELOW.	+	Enter Port Installed	Select any applicable Dealer Installed Accessories	=			
5000		15	100	Exceeds FMVSS110 limits, Load Carrying Capacity Reduced Label REQUIRED (115lbs or 52.2kg)	2.3	%	Must be less then 1.5%
					100	lbs	Must be less then 100 lbs.

Year	Model	Engine	Transmission	GVWR (lbs.)
2013	ACCENT GLS	1.6 L	(blank)	3549
2013	ACCENT GLS M/T	1.6 L	MTM	3549
2013	ACCENT GS	1.6 L	(blank)	3549
2013	ACCENT GS M/T	1.6 L	MTM	3549
2013	ACCENT SE	1.6 L	(blank)	3549
2013	ACCENT SE M/T	1.6 L	MTM	3549
2013	AZERA	3.3 L	(blank)	4785
2013	ELANTRA COUPE GS	1.8 L	(blank)	3792
2013	ELANTRA COUPE GS M/T	1.8 L	MTM	3792
2013	ELANTRA COUPE GS PZE	1.8 L	(blank)	3792
2013	ELANTRA COUPE SE	1.8 L	(blank)	3792
2013	ELANTRA COUPE SE M/T	1.8 L	MTM	3792
2013	ELANTRA COUPE SE PZE	1.8 L	(blank)	3792
2013	ELANTRA GLS	1.8 L	(blank)	3792
2013	ELANTRA GLS M/T	1.8 L	MTM	3792
2013	ELANTRA GLS PZEV	1.8 L	(blank)	3792
2013	ELANTRA GT	1.8 L	(blank)	4057
2013	ELANTRA GT M/T	1.8 L	MTM	4057
2013	ELANTRA GT PZEV	1.8 L	(blank)	4057
2013	ELANTRA LIMITED	1.8 L	(blank)	3792
2013	ELANTRA LIMITED PZEV	1.8 L	(blank)	3792
2013	EQUUS	5.0 L	(blank)	5578
2013	GENESIS 3.8	3.8 L	(blank)	4906
2013	GENESIS 5.0 R-SPEC	5.0 L	(blank)	5115
2013	GENESIS COUPE 2.0T A	2.0 L	ATM	4343
2013	GENESIS COUPE 2.0T M	2.0 L	MTM	4299
2013	GENESIS COUPE 2.0T P	2.0 L	(blank)	4343
2013	GENESIS COUPE 2.0T R	2.0 L	(blank)	4299
2013	GENESIS COUPE 3.8 GR	3.8 L	(blank)	4409

Year	Model	Accessory	Part #	Weight (lbs.)
2013	Accent	All Weather Mats	1R013ADU00	8.4
2013	Accent	Ash Cup	1RH78AP000	0.3
2013	Accent	Blongiovi Audio System	1R050ADU00	2.4
2013	Accent	Bumper Applique-4 door	1R031ADU00	.05
2013	Accent	Bumper Applique-5 door	1R031ADU05	.09
2013	Accent	Cargo Net-4 door	1R017ADUP0	0.6
2013	Accent	Cargo Net-4 door	1R017ADU00	0.6
2013	Accent	Cargo Net-5 door	1R017ADUP1	0.4
2013	Accent	Cargo Net-5 door	1R017ADU00	0.4
2013	Accent	Cargo Tray-4 door	1R012ADU00	4.6
2013	Accent	Cargo Tray-5 door	1R012ADU05	3.3
2013	Accent	Carpeted Floor Mats	1RF14AC000RYN	4.9
2013	Accent	Carpeted Floor Mats	1RF14AC100RYN	4.9
2013	Accent	Carpeted Floor Mats	1RF14AC0009Y	4.9
2013	Accent	Carpeted Floor Mats	1RF14AC1009Y	4.9
2013	Accent	Cup Holder, console	1R075ADUP1	1.3
2013	Accent	Cup Holder, console	1R075ADU01	1.3
2013	Accent	Cup Holder, insert	1R075ADUP0	0.3
2013	Accent	Cup Holder, insert	1R075ADU00	0.3
2013	Accent	EC Mirror	1R062ADU01	1.4
2013	Accent	iPod Cable	086202L000	0.1
2013	Accent	Mudguard - Front	1RF46AC500	0.5
2013	Accent	Mudguard (4 door) - Rear	1RF46AC600	0.4
2013	Accent	Mudguard (4 door) - Kit	1RF46AC700	0.9
2013	Accent	Mudguard (5 door) - Kit	1RF46AC400	0.6
2013	Accent	Rear Spoiler, Lip	1R017ADU00	0.8
2013	Accent	Wheel Locks	U844000400	0.5
2013	Accent	Wheel Locks, Lightweight	U844000500	0.5
2013	Accent	Bumper Applique-4 door	1R031ADU00	.05

The launched spreadsheet has placeholders in the calculation cells that you will need to replace with actual weights. Scroll down as necessary in the calculator to find your vehicle listed in the columns under "Step 1" of the calculator. Enter the corresponding GVWR(lbs.) into the light yellow box under "Step 1". If the subject vehicle is not listed in the table, refer to the VIN placard on the driver-side B pillar.

Next, find the port and dealer installed accessories for your vehicle in the columns under "Step 2" Note: If there are more than one accessory installed by the port or dealer, the weights of each must be added together in the box. Once you have entered your weights, the calculator alerts you whether a label is needed or not.



Step 1		Step 2		Findings	Parameters		Limits
Select your Model and record in the GVWR box BELOW.	+	Enter Port Installed	Select any applicable Dealer Installed Accessories	=			
3792		0	8.29	Load Carrying Capacity Reduced Label NOT required	0.2	%	Must be less then 1.5%
					100	lbs	Must be less then 100 lbs.

Year	Model	Engine	Transmission	GVWR (lbs.)
2013	ELANTRA COUPE SE PZE	1.8 L	(blank)	[illegible]
2013	ELANTRA GLS	1.8 L	(blank)	3792
2013	ELANTRA GLS M/T	1.8 L	MTM	[illegible]
2013	ELANTRA GLS PZEV	1.8 L	(blank)	3792
2013	ELANTRA GT	1.8 L	(blank)	4057
2013	ELANTRA GT M/T	1.8 L	MTM	4057
2013	ELANTRA GT PZEV	1.8 L	(blank)	4057
2013	ELANTRA LIMITED	1.8 L	(blank)	3792
2013	ELANTRA LIMITED PZEV	1.8 L	(blank)	3792
2013	EQUUS	5.0 L	(blank)	5578
2013	GENESIS 3.8	3.8 L	(blank)	4906
2013	GENESIS 5.0 R-SPEC	5.0 L	(blank)	5115
2013	GENESIS COUPE 2.0T A	2.0 L	ATM	4343
2013	GENESIS COUPE 2.0T M	2.0 L	MTM	4299
2013	GENESIS COUPE 2.0T P	2.0 L	(blank)	4343
2013	GENESIS COUPE 2.0T R	2.0 L	(blank)	4299
2013	GENESIS COUPE 3.8 GR	3.8 L	(blank)	4409
2013	GENESIS COUPE 3.8 R-	3.8 L	(blank)	4343
2013	GENESIS COUPE 3.8 TR	3.8 L	(blank)	4343
2013	SANTA FE SPORT AWD 2	2.0 L	(blank)	5181
2013	SANTA FE SPORT AWD 2	2.4 L	(blank)	5071
2013	SANTA FE SPORT FWD 2	2.0 L	(blank)	4960
2013	SANTA FE SPORT FWD 2	2.4 L	(blank)	4850
2013	SONATA GLS	2.4 L	(blank)	4299
2013	SONATA GLS PZEV	2.4 L	(blank)	4299
2013	SONATA LIMITED	2.4 L	(blank)	4299
2013	SONATA LIMITED 2.0T	2.0 L	(blank)	4475
2013	SONATA LIMITED PZEV	2.4 L	(blank)	4299
2013	SONATA SE	2.4 L	(blank)	4299
2013	SONATA SE 2.0T	2.0 L	(blank)	4475
2013	TUCSON GL FWD	2.0 L	(blank)	4365

Year	Model	Accessory	Part #	Weight (lbs.)
2013	Accent	Carpeted Floor Mats	1RF14AC100RYN	4.9
2013	Accent	Carpeted Floor Mats	1RF14AC0009Y	4.9
2013	Accent	Carpeted Floor Mats	1RF14AC1009Y	4.9
2013	Accent	Cup Holder, console	1R075ADUP1	1.3
2013	Accent	Cup Holder, console	1R075ADU01	1.3
2013	Accent	Cup Holder, insert	1R075ADUP0	0.3
2013	Accent	Cup Holder, insert	1R075ADU00	0.3
2013	Accent	EC Mirror	1R062ADU01	1.4
2013	Accent	iPod Cable	086202L000	0.1
2013	Accent	Mudguard - Front	1RF46AC500	0.5
2013	Accent	Mudguard (4 door) - Rear	1RF46AC600	0.4
2013	Accent	Mudguard (4 door) - Kit	1RF46AC700	0.9
2013	Accent	Mudguard (5 door) - Kit	1RF46AC400	0.6
2013	Accent	Rear Spoiler, Lip	1R017ADU00	0.8
2013	Accent	Wheel Locks	U844000400	0.5
2013	Accent	Wheel Locks, Lightweight	U844000500	0.5
2013	Accent	Bumper Applique-4 door	1R031ADU00	.05
2013	Accent	Bumper Applique-5 door	1R031ADU05	.09
2013	Azera	All Weather Mats	3V013ADU00	
2013	Azera	Cargo Net	3V017ADU00	0.6
2013	Azera	Cargo Net	3V017ADUP0	0.6
2013	Azera	Cargo Tray	3V012ADU00	5.4
2013	Azera	Carpeted Floor Mats	3VF14AC000 RYHZ	
2013	Azera	Carpeted Floor Mats	3VF14AC001RYHZ	8.4
2013	Azera	Hood Film	3V024ADU00	11 oz
2013	Azera	Wheel Locks	U844000500	0.5
2013	Elantra	All Weather Mats	3X013ADU00	
2013	Elantra	Ash Cup	3XH78AP000	0.3
2013	Elantra	Cargo Net	3X017ADUP0	
2013	Elantra	Cargo Net	3X017ADU00	0.5
2013	Elantra	Cargo Tray	3X012ADU00	4.4

If the calculator findings determine that a label is required, the following information must be affixed to the vehicle within one inch of the existing VIN placard: ▶

Please see TSB #13-GI-001 for more information.

CAUTION: LOAD CARRYING CAPACITY REDUCED

Modifications to this vehicle have reduced

the original load carrying capacity by: ____ kg or ____ lbs

TechNet Tips

ETC Throttle Body Cleaning

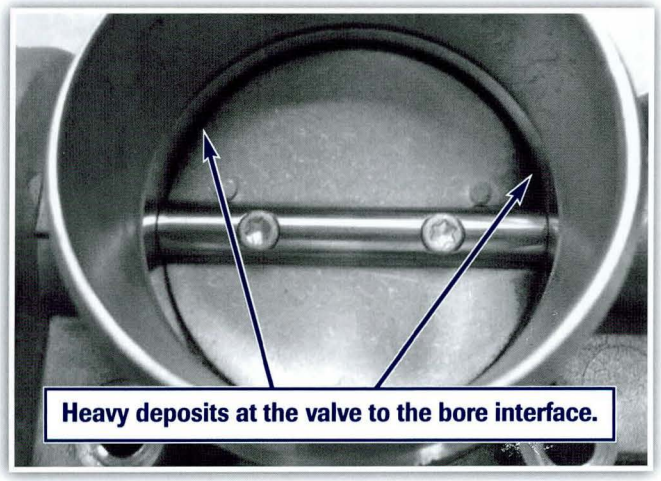
This article provides the procedure to clean the Electronic Throttle Control (ETC) throttle body on the following vehicles:

- Elantra all models: 2011~
- Genesis Coupe 2.0L: 2010~
- Santa Fe 2.4L: 2010-2012
- Santa Fe Sport: 2013~
- Sonata 2.4L: 2006-2010
- Sonata: 2011~
- Tucson: 2010~

This throttle body cleaning procedure should be performed when diagnosing the conditions listed below. Do not replace the ETC throttle body assembly prior to performing this procedure. If a vehicle exhibits any of the listed condition and deposits are found at the valve-to-bore interface inside the ETC throttle body, clean the throttle body using the procedure described in this article.

Any of the following conditions may be caused by throttle body deposits:

- No start (due to throttle valve stuck closed or air flow significantly restricted)
- Rough idle or fluctuating engine speed at idle (due to air flow restricted)
- MIL "On" with DTC P2118 or P2119 occurring along with P2110:
- P2118: Throttle Actuator Control Motor Current Range/Performance
- P2119: Throttle Actuator Control Throttle Motor Current Range/Performance
- P2110: Throttle Actuator Control System-Forced Limited Power



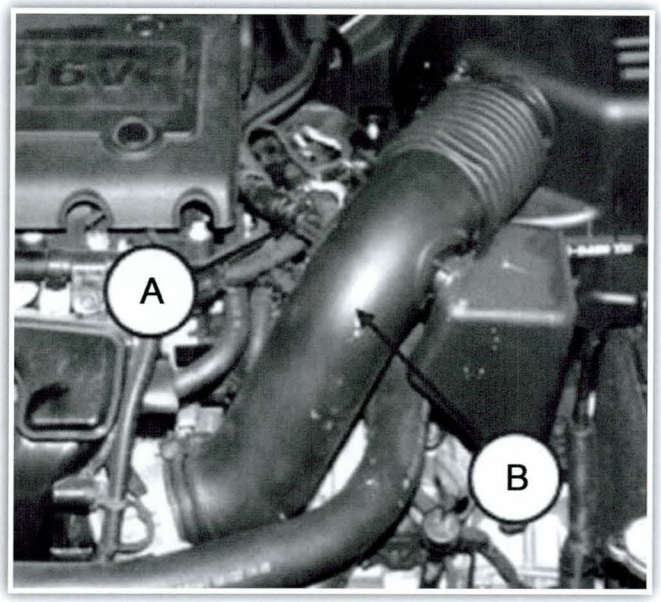
Heavy deposits at the valve to the bore interface.

INSPECTION PROCEDURE:

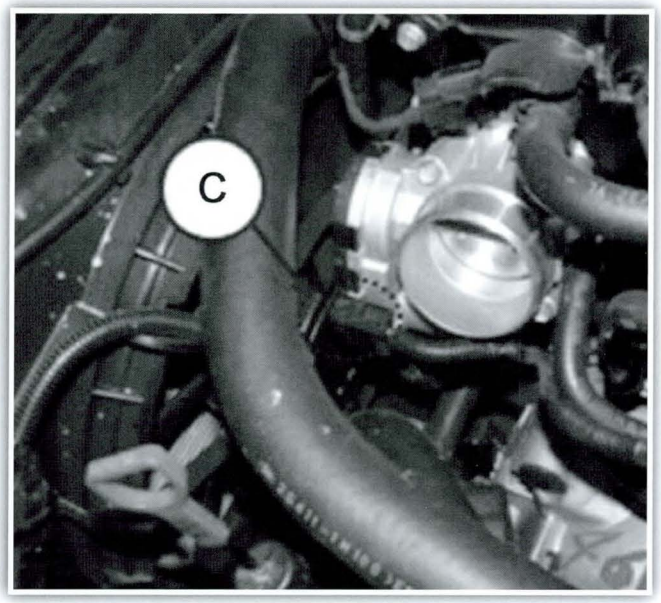
Sonata 2.4L shown for example only

1. Turn the ignition OFF.

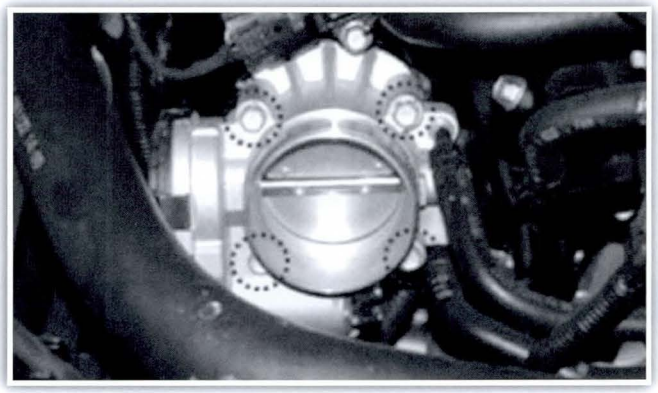
Remove the breather hose (A) and the air intake hose (B) to gain access to the ETC throttle body.



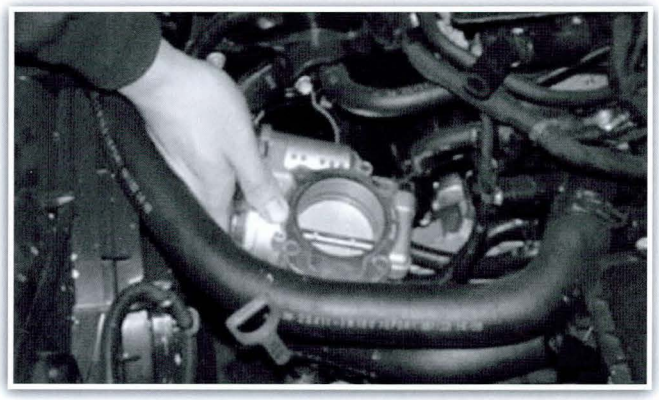
2. Disconnect the ETC connector (C) from the throttle body.



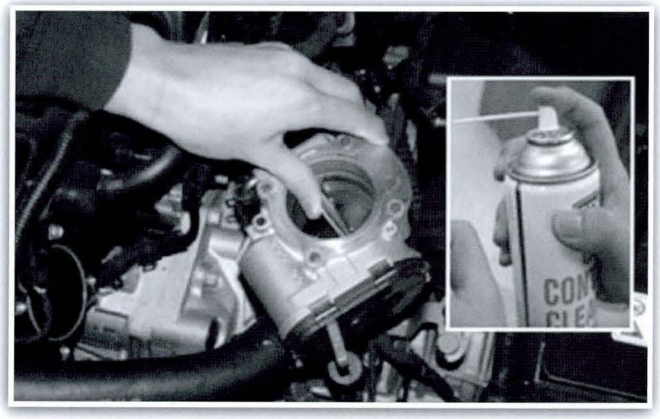
3. Remove the 4 ETC throttle body mounting bolts and then pull out the ETC throttle body away from the intake manifold.



NOTE: Do not disconnect the coolant hose from the ETC throttle body. It is not necessary to remove the ETC throttle body completely from the vehicle for cleaning.



4. Spray a carbon cleaner or throttle body cleaning solution on the throttle valve and bore areas where deposits have accumulated. Wipe off the deposits with a clean and soft shop towel (as shown in the pictures).



NOTE: Do not use excessive force to open the throttle valve. Be careful not to scratch the throttle valve and bore area during cleaning.

5. Reinstall all the removed parts in reverse order of removal after completing the ETC throttle body cleaning.

NOTE: If the ETC gasket has been damaged or contaminated by foreign substances; it must be replaced with a new one.

Torque the throttle body bolts to the following specifications:

MODEL	TORQUE (lb.ft)	TORQUE (N.m)
Elantra (UD/MD/GD/JK): 2011 ~	5.8 ~ 8.7	7.8 ~ 11.8
Genesis Coupe (BK) 2.0L: 2010 ~	7.2 ~ 8.7	9.8 ~ 11.8
Santa Fe (CM) 2.4L: 2010 - 2012	5.8 ~ 8.7	7.8 ~ 11.8
Santa Fe Sport (AN) 2.0L: 2013 ~	5.8 ~ 7.2	7.8 ~ 9.8
Santa Fe Sport (AN) 2.4L: 2013 ~	7.2 ~ 8.7	9.8 ~ 11.8
Sonata (NF) 2.4L: 2006 - 2010	5.8 ~ 7.2	7.8 ~ 9.8
Sonata (YF): 2011 ~	7.2 ~ 8.7	9.8 ~ 11.8
Tucson (LM): 2010 ~	5.8 ~ 8.7	7.8 ~ 11.8

6. Without starting the engine, turn the ignition ON (Turn the ignition key to ON position or press the Start-Stop Button two times without depressing the brake pedal) for at least 10 seconds and then turn OFF for at least 10 seconds. This procedure allows the ECM to automatically learn the throttle valve position.

   The following Throttle Position Learning Enable Conditions must exist for learning to take place:

   - Battery voltage > 10V
   - Engine coolant temperature > 41.5F (5.3C)

7. Start the engine to confirm proper operation.

   Check for any Diagnostic Trouble Code(s) and erase if any.

Fix-It-Right

AUTOMATIC TRANSAXLE (6-SPEED) OIL TEMPERATURE SENSOR DTC P0711, P0712 & P0713

This article supersedes bulletin 12-AT-021 to include the 2013 Santa Fe.

DESCRIPTION:

Do not replace the transaxle for the DTC listed below. Instead, follow the repair procedure and replace the related part.low the inspection procedure described below.

	MODEL YEARS	MODEL
APPLICABLE VEHICLES:	2010 ~	Tucson (LM) & Santa Fe (CM/AN)
	2011 ~	Sonata (YF)/HEV, Elantra (UD/MD) & Azera (TG)
	2012 ~	Accent (RB), Azera (HG)
	2013~	Veloster Turbo (FS), Elantra Coupe (JK) & Elantra GT (GD)

DTC LIST:

DTC	DESCRIPTION
P0711	Transmission Fluid Temperature Sensor - Rationality check
P0712	Transmission Fluid Temperature Sensor - Circuit Low Input
P0713	Transmission Fluid Temperature Sensor - Circuit High Input

PARTS INFORMATION:

MODEL	ENGINE	OIL TEMPERATURE SENSOR	HARNESS	PLASTIC OIL PAN GASKET
2010~ Tucson (LM)	2.0L	46386-3B000	46307-3B620	45283-3B810
2010~ Tucson (LM)	2.4L	46386-3B000	46307-3B620	45283-3B810
2010~ Santa Fe (CM)	2.4L	46386-3B000	46307-3B620	45282-26100
2010~ Santa Fe (CM)	3.5L	46386-3B000	46307-3B020	45283-3B010
2013~ Santa Fe (AN)	2.0L	46386-3B000	46307-3B020	45283-3B010
2013~ Santa Fe (AN)	2.4L	46386-3B000	46307-3B620	45283-3B810
2011~ Elantra (MD/UD)	1.8L	46386-3B000	46307-3B620	45282-26100
2011~ Sonata Turbo (YF)	2.0L	46386-3B000	46307-3B020	45283-3B010
2011~ Sonata (YF)	2.4L	46386-3B000	46307-3B620	45283-3B810
2011~ Sonata HEV (YF HEV)	2.4L	46386-3B000	46307-3B620	45283-3D100
2011 Azera (TG)	3.3L/3.8L	46386-3B000	46307-3B020	45283-3B010
2012~ Azera (HG)	3.3L	46386-3B000	46307-3B020	45283-3B010
2012~ Accent (RB)	1.6L	46386-3B000	46307-3B620	45282-26100
2013~ Veloster Turbo (FS)	1.6L	46386-3B000	46307-3B620	45283-3B810
2013~ Elantra Coupe (JK)	1.8L	46386-3B000	46307-3B620	45282-26100
2013~ Elantra GT (GD)	1.8L	46386-3B000	46307-3B020	45282-26100

continued on page 10

WARRANTY INFORMATION – REPLACE OIL TEMPERATURE SENSOR ONLY:

MODEL	OP CODE	OPERATION	OP TIME	CAUSAL PART	NATURE CODE	CAUSE CODE
2010~ Tucson (LM)	46386R00	Replace oil temperature sensor	1.2	46386-3B000	N69	C15
2010~ Santa Fe (CM)			1.9			
2013~ Santa Fe (AN)			1.2			
2011~ Elantra (MD/UD)			1.3			
2011~ Sonata (YF)			1.3			
2011 Azera (TG)			1.9			
2012~ Azera (HG)			1.3			
2012~ Accent (RB)			1.0			
2013~ Veloster Turbo (FS)			1.3			
2013~ Elantra Coupe (JK)			1.3			
2013~ Elantra GT (GD)			1.3			
2011~ Sonata (YF HEV)			1.3			
	Additional	46386RH1	1.4			
All	46386RQ0	GDS	0.3			

WARRANTY INFORMATION – REPLACE OIL TEMPERATURE SENSOR AND HARNESS:

MODEL	OP CODE	OPERATION	OP TIME	CAUSAL PART	NATURE CODE	CAUSE CODE
2010~ Tucson (LM)	46307R00	Replace oil temperature sensor and harness	1.5	46386-3B000	N69	C15
2010~ Santa Fe (CM)			1.8			
2013~ Santa Fe (AN)			1.8			
2011~ Elantra (MD/UD)			1.5			
2011~ Sonata (YF)			1.5			
2011 Azera (TG)			1.8			
2012~ Azera (HG)			1.6			
2012~ Accent (RB)			1.3			
2013~ Veloster Turbo (FS)			1.5			
2013~ Elantra Coupe (JK)			1.5			
2013~ Elantra GT (GD)			1.5			
2011~ Sonata (YF HEV)			1.5			

continued on page 8

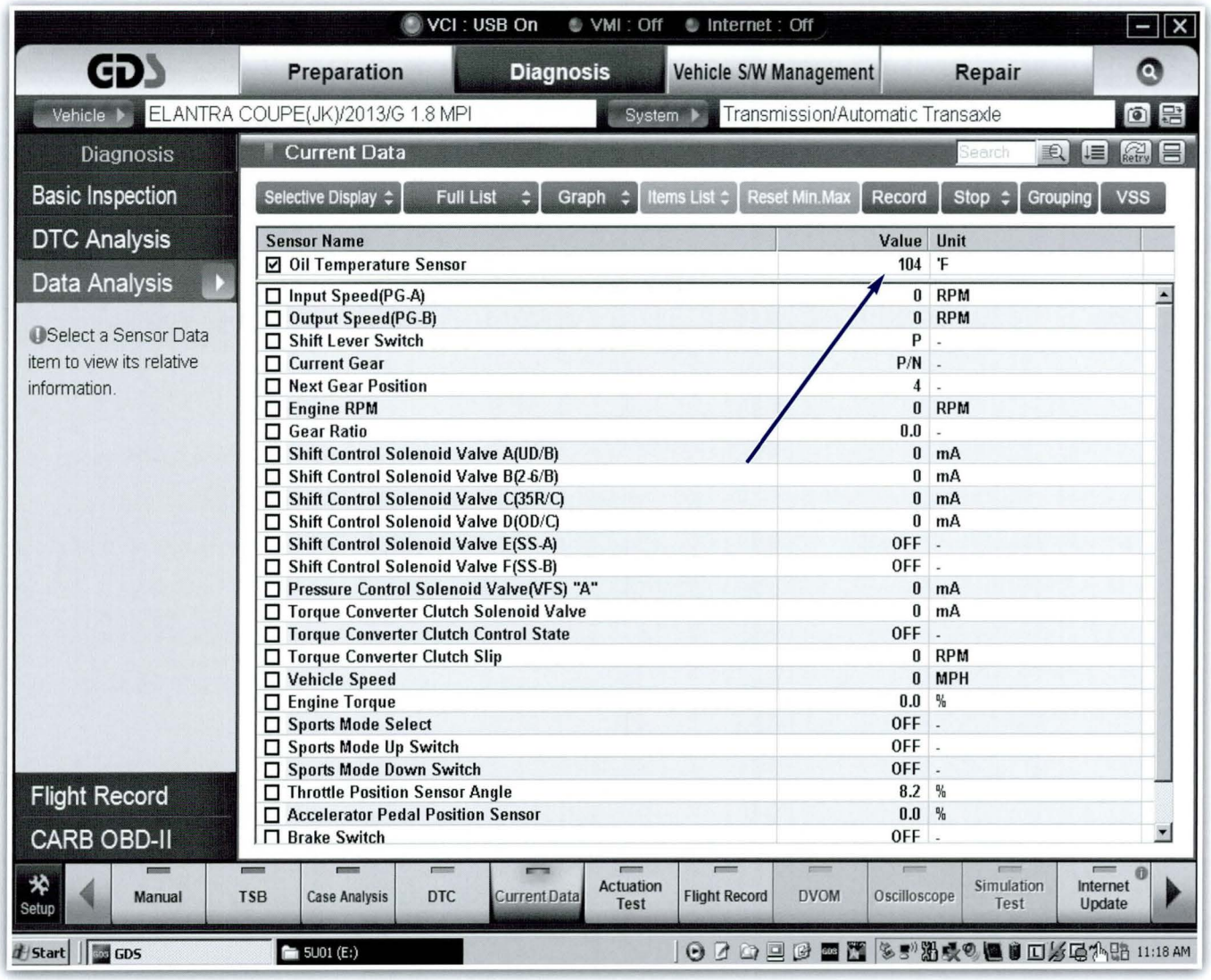
Fix-It-Right

Automatic Transaxle (6-Speed) Oil Temperature Sensor

continued from page 9

SERVICE PROCEDURE:

1. Using a GDS, check for DTC in the "Automatic Transaxle" menu. Record the DTC and description. Delete the DTC.
2. From the GDS, select the following parameters. Drive the vehicle and monitor the sensors.
   - Vehicle and A/T menu.
   - "Current Data"
   - Oil temperature sensor.
3. If the sensors show:
   - Continuous and changing output while driving, the wiring currently has no open/short circuits. Go to Step
   - No output or unchanging output, go to Step 4.
4. Visually check the wiring harness between the PCM and transmission for a damaged wire or short circuit to ground. Check for a damaged pin or pin not fully inserted into the connector.
   - If damage exists, repair or replace the ECM control harness and drive the vehicle to confirm the repair.
   - If not, go to Step 5.



5. Refer to the DTC recorded in Step 1 and follow the repair procedure shown below:

DTC		REPAIR PROCEDURE
P0711	Transmission Fluid Temperature Sensor - Rationality check	Go to Step 6 and replace the oil temperature sensor
P0712	Transmission Fluid Temperature Sensor - Circuit Low Input	
P0713	Transmission Fluid Temperature Sensor - Circuit High Input	

6. Remove the battery and battery tray.

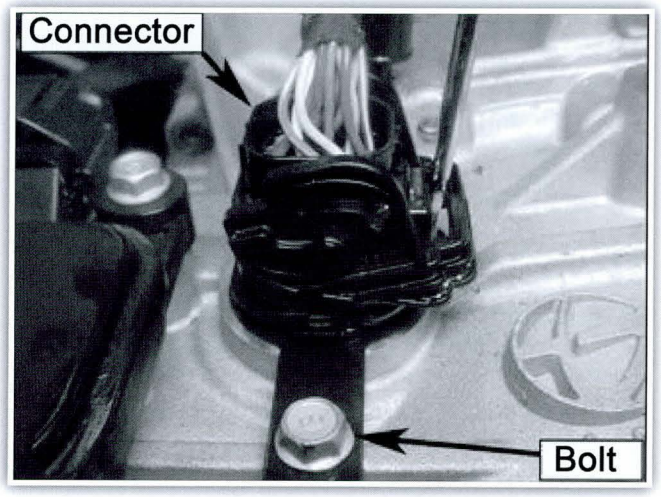
7. Remove the undercover below the transmission.

8. Drain the radiator and remove the lower radiator hose from the radiator. Drain the ATF.

9. Use a screwdriver to release the tab and remove the solenoid connector on top of the case.

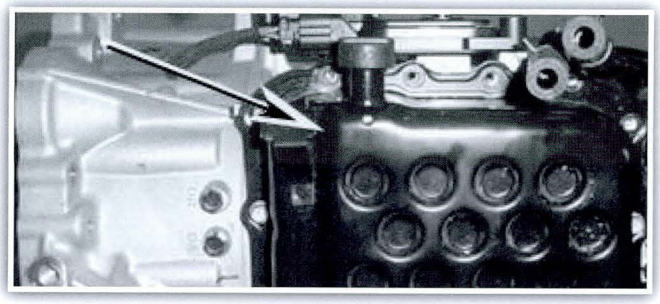
Remove the bolt that secures the connector and push the connector into the transmission.

Disconnect the vent hose at the top of the oil pan.

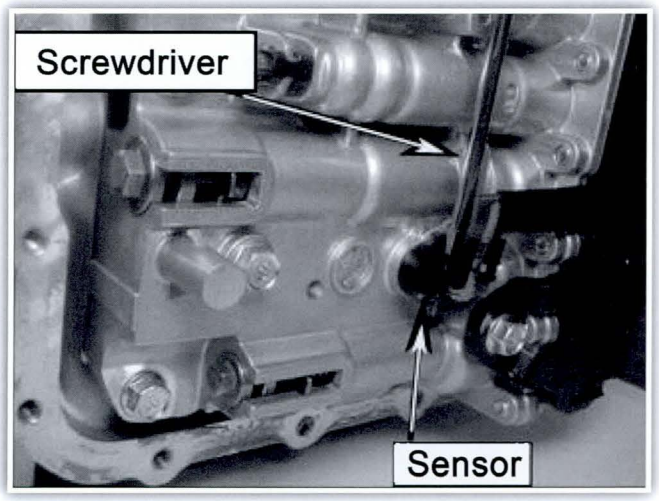


10. Remove the oil pan bolts and remove the pan.

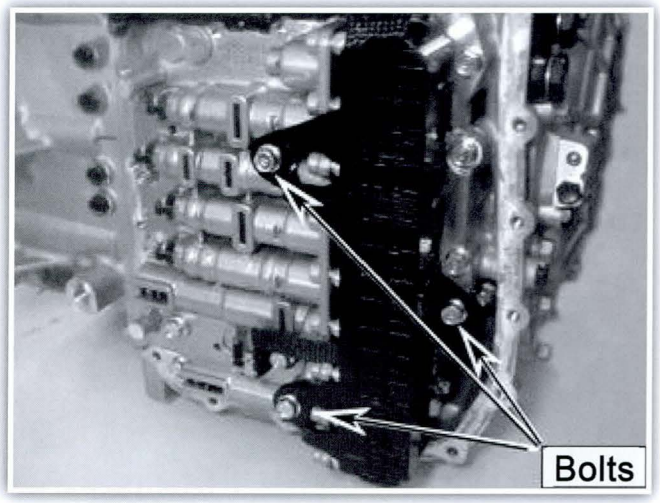
CAUTION: Use rubber hammer to tap the oil pan cover on a corner until the cover is loose.



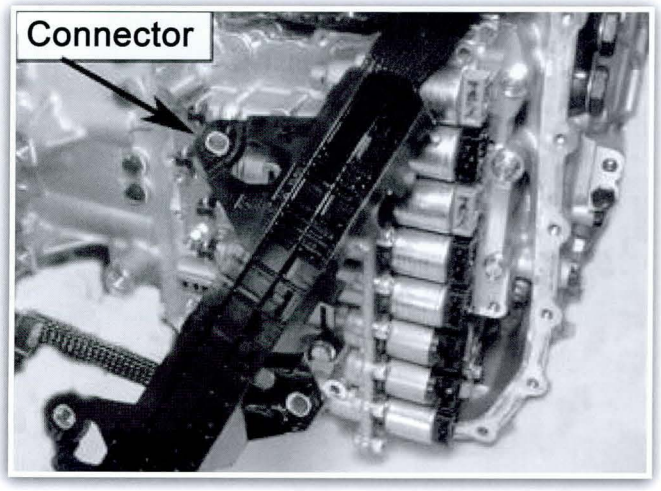
11. Use a small screwdriver to pry the connector from the oil temperature sensor.



12. Remove three bolts to the solenoid valve connector.



13. Pull the solenoid connector outward and move the connector out of position.



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Fix-It-Right

Automatic Transaxle (6-Speed) Oil Temperature Sensor

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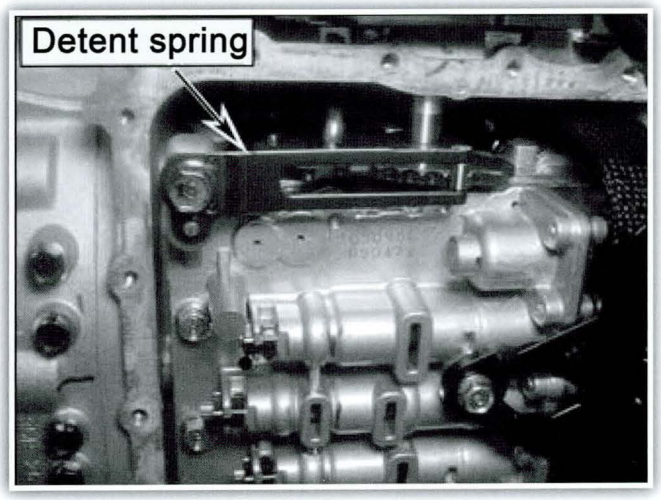
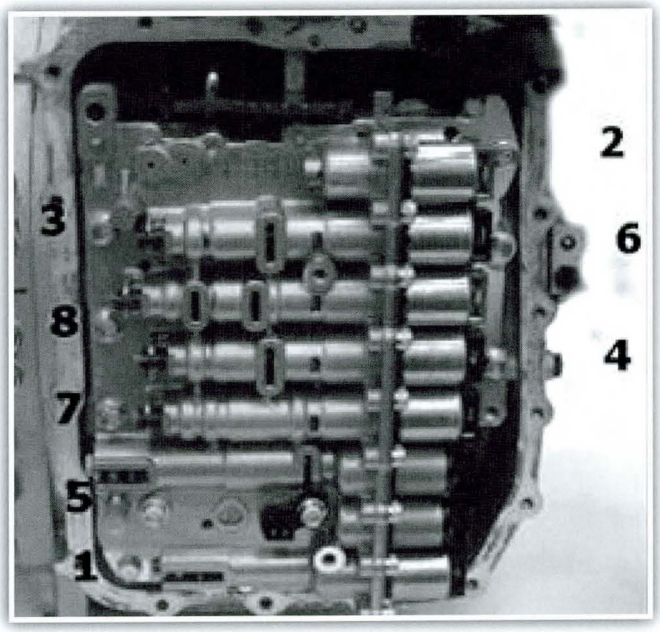
14. Remove the bolt that secures the detent spring and remove the spring.

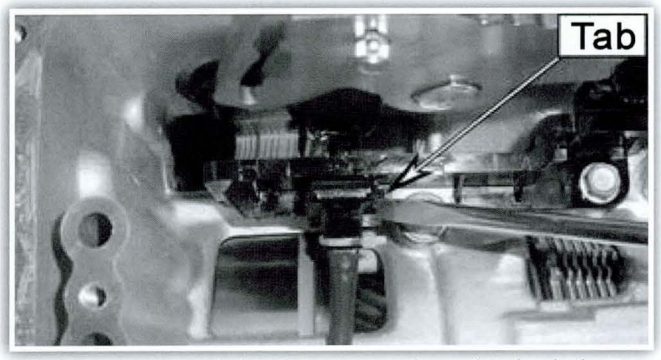
Torque: 8~11 lb.ft (1.2~1.6 kgf.m)



15. Remove 8 bolts in the order shown and remove the valve body.



16. Use a screwdriver to depress the locking tab and pull outward on the connector to the input and output speed sensor.



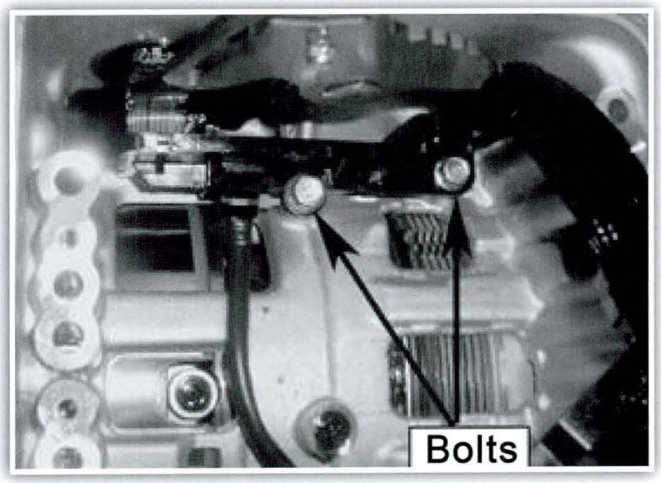
17. Remove two bolts that secure the valve body harness to the case.

Pull the connector downward out of the case.

Install a new harness and insert the connector into the case. Attach the retainer and bolt on top of the case as shown in Step 9.

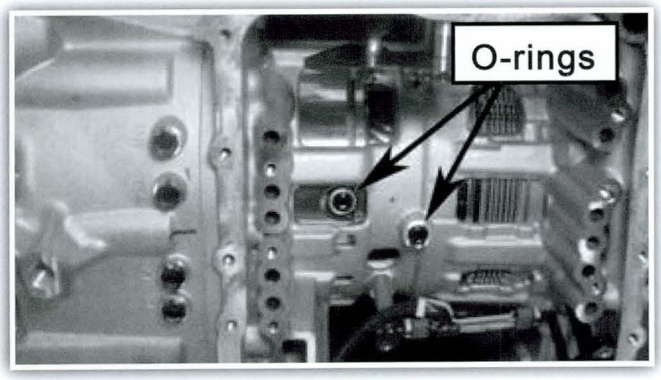
Install the bolts that secure the harness.

Torque: 6~7 lb.ft (0.9~1.0 kgf.m)

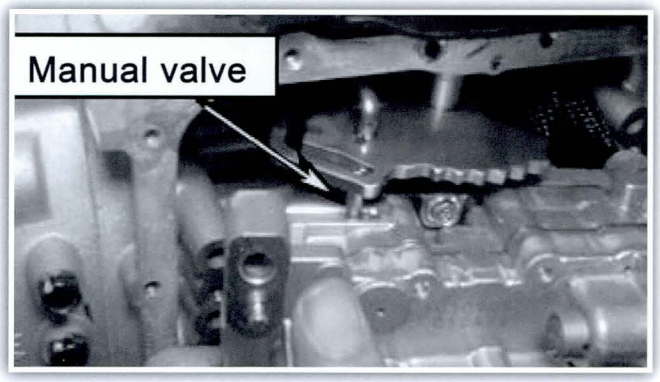


18. Confirm the O-rings are installed correctly in the case.

Reconnect the input and output speed sensor connector to the harness.

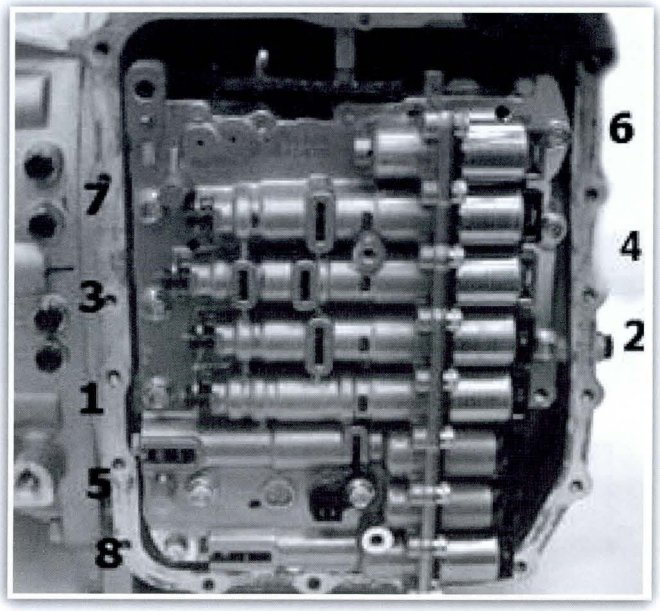


19. Align the manual shaft to the shift lever and install the valve body.



20. Install the valve body bolts and torque the bolts to specification in the order shown.

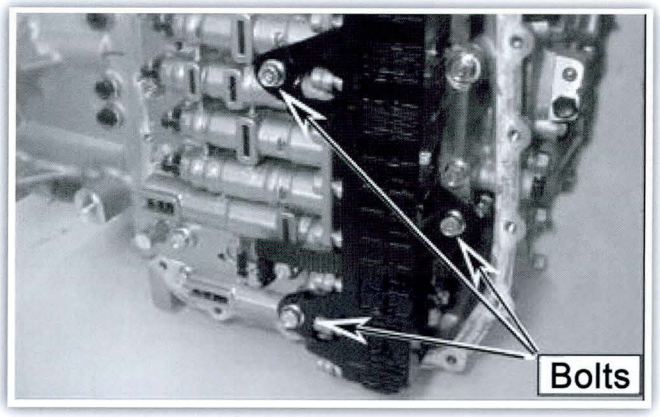
Toque: 6~7 lb.ft (0.9~1.0 kgf.m)



21. Reconnect the solenoid harness to the solenoids and oil temperature sensor.

Install the bolts to the solenoid harness connector and torque to specification.

Torque: 6~7 lb.ft (0.9~1.0 kgf.m)



22. STEEL OIL PAN:

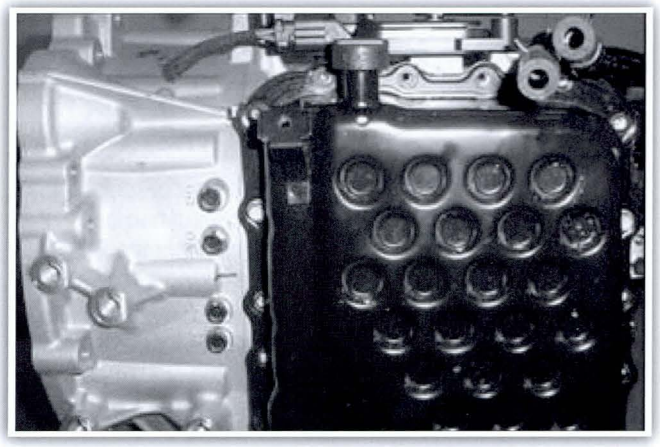
Apply Permatex Ultra Gray Sealer or Hyundai Ultra Gray Gasket Sealer, P/N 00232-19039, to the oil pan and reinstall the pan.

PLASTIC OIL PAN:

Install a new gasket to the oil pan, reinstall the pan and tighten the bolts to specification.

Torque: 6~7 lb.ft (0.9~1.0 kgf.m)

See list on Page 2.



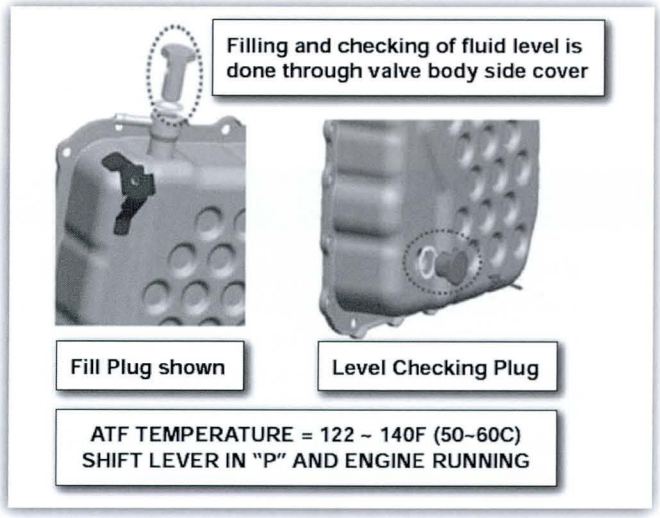
23. Remove the transaxle fill plug.

Use a funnel to add approximately 5~6 quarts of SPH-IV ATF through the fill plug opening. Reinstall the fill plug.

Attach the GDS to the DLC and select vehicle, A/T menu, Current Data and "Oil Temperature Sensor".

Start the engine and shift to Park. When the ATF is 122°F~140°F (50~60°C), remove the level checking plug. The level is correct when oil flows out of the level checking plug in a thin steady stream.

Collect and dispose of any excess fluid in accordance with local regulations.



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Fix-It-Right

Automatic Transaxle (6-Speed) Oil Temperature Sensor

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24. Clear the codes and test drive the vehicle for two drive cycles (two key-on to key-off driving cycles).

25.

- If the DTC do not occur again, return the vehicle to the customer.
- If the DTC return, perform the following repairs:

DTC		REPAIR PROCEDURE
P0711	Transmission Fluid Temperature Sensor - Rationality check	• Repair or replace the control harness between the PCM and the transmission. • Test drive the vehicle for two drive cycles. If the DTC return again, replace the PCM.
P0712	Transmission Fluid Temperature Sensor - Circuit Low Input	
P0713	Transmission Fluid Temperature Sensor - Circuit High Input	

26. Clear the codes and test drive the vehicle for two drive cycles (two key-on to key-off driving cycles). If the DTC do not occur again, return the vehicle to the customer.

TechNet Tips

ATF SPH-IV Discontinued; Introducing New ATF SP4-M

Effective June 26, 2013 ATF SPH-IV, part number 00232-19045, will be discontinued. SPH-IV will no longer be available for order after 6/26/2013. The new replacement product is SP4-M and the part number is 00232-19057. SP4-M is a new ATF that replaces SPH-IV and is backwards compatible with SPH-IV.

TECHNET TIDBIT

Hyundai's Veteran Employment Transition (VET) Program offers transitioning veterans and reservists a chance to participate in Hyundai Technical training online and in the classroom when space allows. Tell your veteran friends about Hyundai's VET Program and give them the opportunity to possibly transition to a Hyundai Dealership. Have them register at Hyundaicareers.com and indicate "Military" when prompted.

TechNet Times

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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:

Editor–TechNet Times
National Service Training
& Support Department
Hyundai Motor America
P.O. Box 20850
10550 Talbert Avenue
Fountain Valley, CA 92728-0850