

TECHNET TIMES

NEW THINKING.
NEW POSSIBILITIES.

VOL. 24, ISSUE 01



HYUNDAI

NEW THINKING.
NEW POSSIBILITIES.

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Techline Announcement

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Hyundai Motor America has a New U.S. Headquarters



Hyundai Motor America has relocated to its new \$200 million U.S. corporate headquarters in Fountain Valley, California. The new headquarters project represents the largest investment in an office building ever made in the U.S. by Hyundai Motor Company. The general contractor for the project was Hyundai Amco America, Inc.

The building design is sleek and modern, yet classic, and built on a structural pedestal foundation with floating translucent glass floors above. The focal point of the building is its impressive two-story high entrance, which leads to an open-to-the sky public courtyard in the building's center. A showroom of Hyundai vehicles will be visible from the freeway side of the new structure.

Designed by global architectural firm Gensler, the building uses a high-performance exterior glass curtain wall system comprised of 900 panels and challenges conventional wisdom. Rather than ordinary reflective glass, Hyundai is using custom-designed large insulated glass (IGU) 5' x 10' panels that are specially glazed to provide optimal energy efficiency, as well as exceptional visual clarity from both inside and outside the building.

Each curtain wall glass panel is comprised of a series of glass layers, performance coatings and a ceramic composition "frit," all of which have been calibrated to provide significant solar, light and acoustic benefits.

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David Zuchowski to Lead Hyundai Motor America

Hyundai Motor America announced a major management change at year's end. Incoming President and CEO David Zuchowski joined Hyundai Motor America in February 2007 as vice president of Sales with responsibility for all sales, sales operations, market representation, field operations and overall dealer relations. A proven 33-year veteran of the automotive industry, Zuchowski was previously with Mazda North America, where he served as vice president of Sales and Field Operations. Zuchowski began his career in 1980 at Ford Motor Company, where he progressed through various executive-level positions including regional manager, product marketing manager, national merchandising manager and field operations manager for the Ford and Lincoln Mercury divisions. Zuchowski

earned his Bachelors of Arts in Communications from the University of Washington.

"I am both humbled and excited to lead Hyundai Motor America into the next chapter by continuing to build on John's great legacy, and focusing on what matters most – building the highest quality, safest and most diverse fleet of models that customers love," said Zuchowski.



President and CEO David Zuchowski

"Dave has consistently distinguished himself as a results-oriented and motivational leader in our industry," said Hyundai CFO Im Tak Uk. "During his time at Hyundai, Dave has been instrumental in our growth, especially among our dealers. He exhibits a rare combination of passion, intelligence, creativity and diligence, and we are confident that he is the right choice to build on John's momentum and take Hyundai to new and greater heights."

Hyundai's New U.S. Headquarters

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White frit "speed lines" on the glass reduce heat by providing solar shading. Along with low-iron, clear glass substrates in the panels, this provides building occupants with a clear view and maximizes daylight penetration.

The glass curtain wall's energy-efficient design is part of Hyundai's broader goal to achieve gold-level LEED-certification for its new headquarters. Leadership in Energy and Environmental Design (LEED) is an internationally recognized green building certi-

fication process assessing the sustainability of a building's design, construction and operations.

The new building will be approximately 500,000 gross sq. ft., including a six-story tower connected to a one-story, technical services facility. A free-standing parking structure will also be part of the campus. The facility is also home to HMA's Western Regional office and Training Center. Workers from MOBIS, Inc. Hyundai's parts arm are located in the new building as well.

Hyundai Begins Utilizing Absorbent Glass Mat Batteries

Hyundai recently began utilizing Absorbent Glass Mat (AGM) batteries in some of their models. Replace an existing battery with a battery of the same type: flooded for

flooded or AGM for AGM. The table below will help when replacing a battery.

REPLACEMENT BATTERY APPLICATION GUIDE

MODEL	YEAR	ENGINE	PART NUMBER	GROUP	CCA	RC
ACCENT	1995-	4 cyl	00275-15001	121R	600	110
AZERA	2006-	6 cyl	00275-16001	124R	700	120
ELANTRA	1992-1995	4 cyl	00275-14000	25	550	100
	1996-2010	4 cyl	00275-15001	121R	600	110
GT	2013-	4 cyl	00275-18001	H5	600	100
COUPE	2013-	4 cyl	00275-18001	H5	600	100
SEDAN	2011-	4 cyl	00275-18001	H5	600	100
ELANTRA TOURING	2009-2012	4 cyl	00275-15001	121R	600	110
ENTOURAGE	2006-2008	6 cyl	00275-16001	124R	700	120
EQUUS	2011-	8 cyl	00275-17000	H8	95 amp hours**	
EXCEL	1985-1994	4 cyl	00275-14000	25	550	100
GENESIS						
COUPE	2010-	ALL	00275-16001	124R	700	120
SEDAN	2009-	ALL	00275-17000	H8	95 amp hours**	
SANTA FE	2010-	ALL	00275-16001*	124R	700	120
SPORT	2013-	4 cyl	00275-16001*	124R	700	120
SCOUPÉ	1991-1995	4 cyl	00275-14000	25	550	100
SONATA	1989-1998	4 cyl	00275-14000	25	550	100
	1999-2013	ALL	00275-16001	124R	700	120
	2014-	4 cyl	00275-20000	H6A	70 amp hours**	
HYBRID	2011-	4 cyl	00275-19000 ^	H6R	600	110
TIBURON	1997-2008	ALL	00275-16001	124R	700	120
TUCSON	2005-	ALL	00275-16001	124R	700	120
VELOSTER	2012-	ALL	00275-18001	H5	600	100
VERACRUZ	2007-2012	6 cyl	00275-16001 *	124R	700	120
XG300/350	2001-2005	6 cyl	00275-16001	124R	700	120

Some OEM batteries are smaller. Discard the battery insulation cover if it is too small to fit the service battery.

^ This battery is only stocked at the Battery Redistribution Center, not your local Distributor. Please add an additional one to two days to the normal delivery process to receive this battery.

* Some Veracruz and Santa Fe models may require a Hyundai battery post shim (P/N. 00220-68000) to fit the battery connections tight.

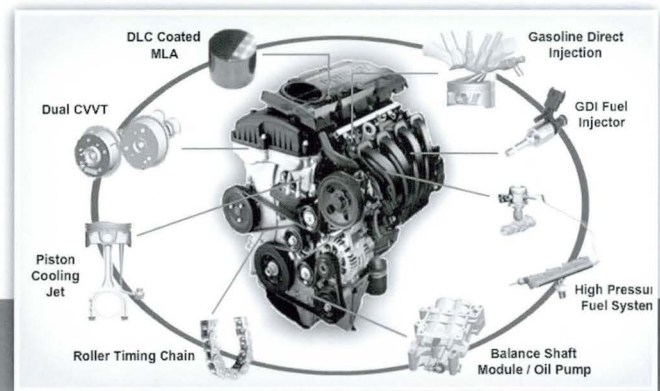
** This chart reflects the CCA for the available replacement service battery and not what is in the OEM vehicle.

Have You Completed the Course?

The 2014 Hyundai Tucson New Model Web Course is available on TACS. The course covers changes in model features and systems. Trim levels have changed as well. You will review Gasoline Direct Injection (GDI) operation and components since the engines

powering the new Tucson use GDI technology. Other new highlights include: Motor Driven Power Steering, GDI Diagnosis, and SRS Variant Coding.

This is a required course for all TECS Technician levels. Jump online and boost your service capabilities for the 2014 Tucson!



iPhone®/iPod® USB Data Cable

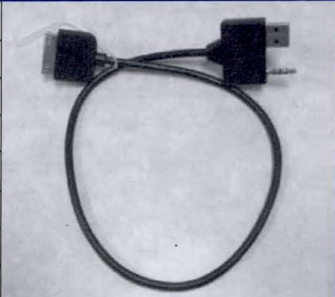
It is very important that a compatible USB/IPOD cable is used with radio units for 2012, 2013 and 2014 Model Year vehicles to ensure full iPhone/iPod features and functions in the audio and navigation system.

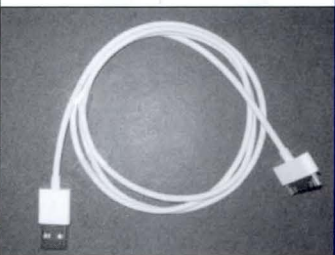
If an incompatible cable is used, the audio screen will dis-

play “Aux External Device Connected” and all iPhone/iPod functions will be required to be controlled from the iPhone/iPod. It will also not charge the iPhone or iPod.

Refer to the table below for the cable and vehicle model compatibility.

Applicable Vehicles: All 2012 – Newer Model Year vehicles equipped with a USB jack

YEAR	MODEL	RADIO TYPE	CABLE
2012 - 2013	Sonata (YF, YF-HEV)	AVN (Navigation)	 P/N 08620 2L000 Hyundai Part
2012 - 2013	Equus (VI)	DIS	
2012	Genesis Sedan (BH)	Base Audio, Touch Screen, DIS	
2012 - 2013	Genesis Coupe (BK)	AVN (Navigation), Base Audio	
2012 - 2013	Elantra (GD, UD/MD, JK)	AVN (Navigation)	
2012 - 2013	Elantra (JK*, UD/MD*)	Base audio	
2012	Santa Fe (CM)	AVN (Navigation), Base Audio	
2012 - 2013	Azera (HG)	AVN (Navigation)	
2012 - 2013	Accent (RB)	Base Audio	
2012 - 2013	Tucson (LM)	AVN (Navigation), Base Audio	

YEAR	MODEL	RADIO TYPE	CABLE
2013 - Current	Santa Fe,Santa Fe Sport	Base Audio, AV, AVN(Navigation)	 Apple provided white cable.
2012 - Current	Veloster(FS)	AV and AVN(Navigation)	
2013 - Current	Genesis Sedan(BH)	DIS	
2012 - Current	Sonata(YF, YF-HEV)	Base Audio and AV	
2013 - Current	Elantra(GD, UD/MD*, JK*)	Base Audio	
2014	Azera(HG)	Navigation, and AV	
2014	Elantra(UD/MD/JK)	Navigation,Base Audio and AV	
2014	Genesis Coupe(BK)	Navigation	
2014	Accent(RB)	Base Audio	
2014	Tucson(LM)	Navigation,Base Audio and AV	
2014	Sonata(YF, YF-HEV)	Navigation,Base Audio and AV	
2014	Equus(VI)	DIS	

* 2013 Elantra Sedan(UD/MD) and Elantra Coupe(JK) have a standard radio change on 9/13/2012.



If the radio has one knob use the Hyundai black cable.

NOTE: iPod® and iPhone® are registered trademarks of Apple, Inc.

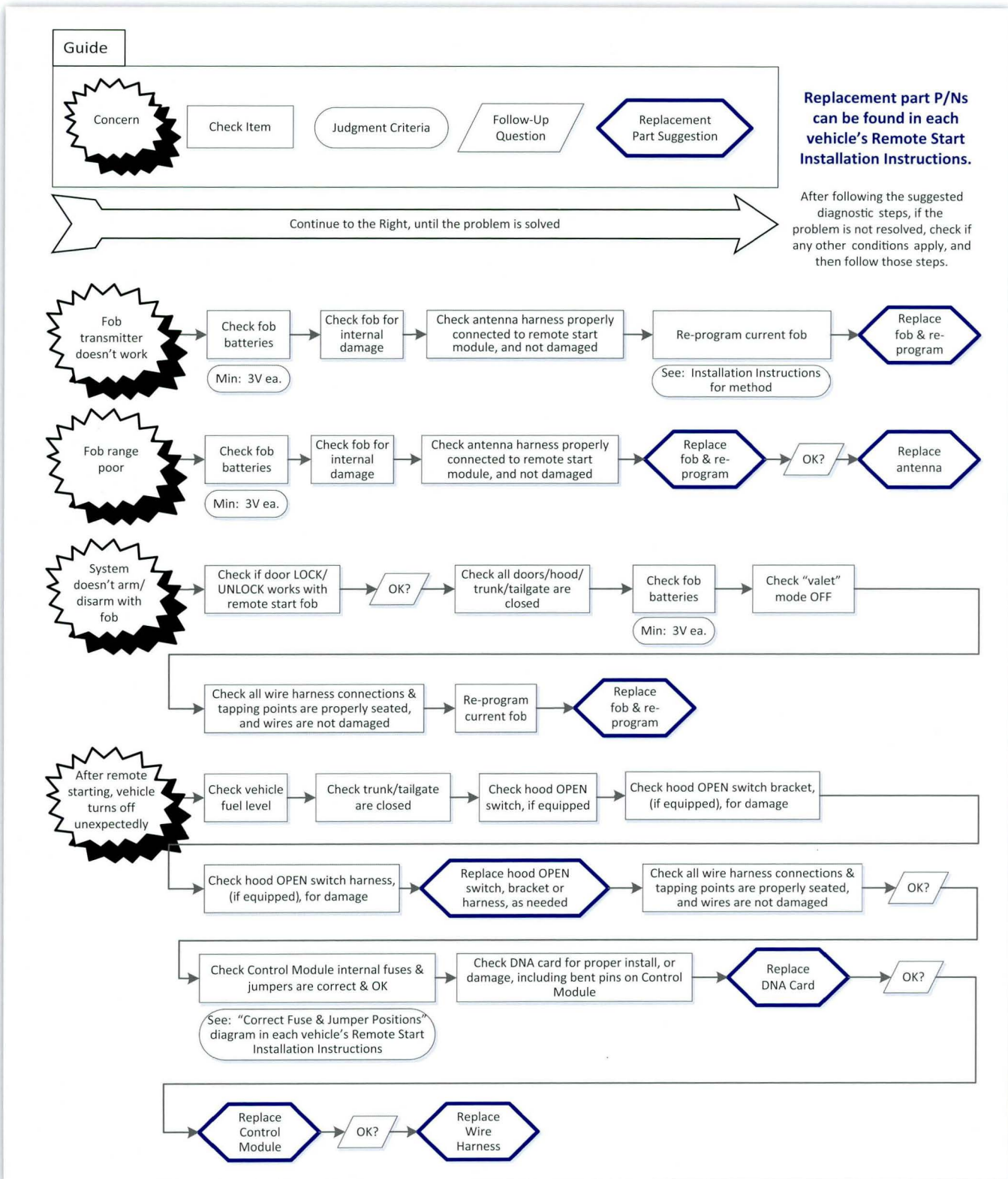


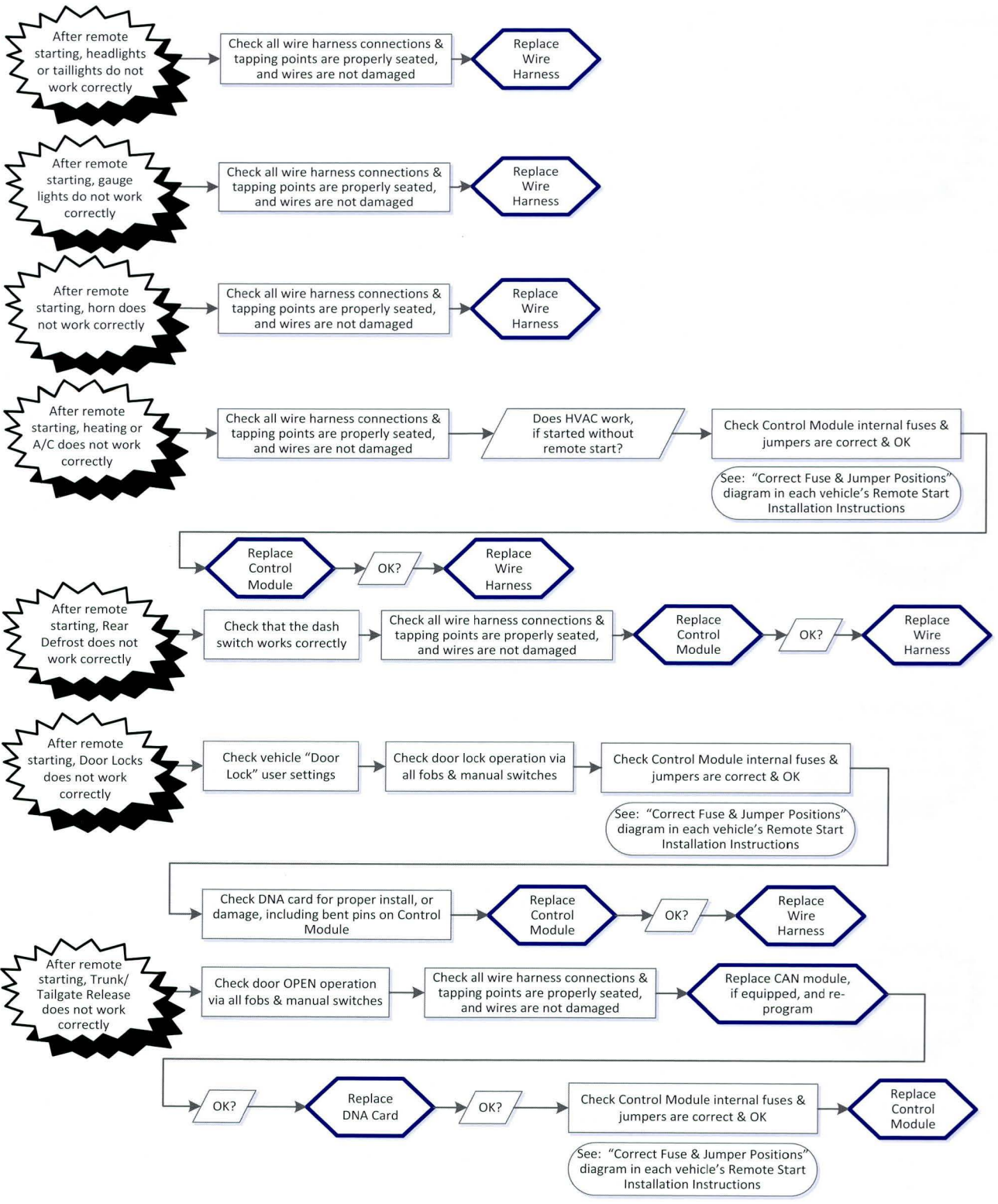
If the radio has two knobs use the Apple white cable.

BASIC DIAGNOSTIC GUIDE:

Remote Engine Start

The following information is provided only as a guide. It is not intended to replace skilled diagnosis by a technician. Please follow standard diagnostic procedures.

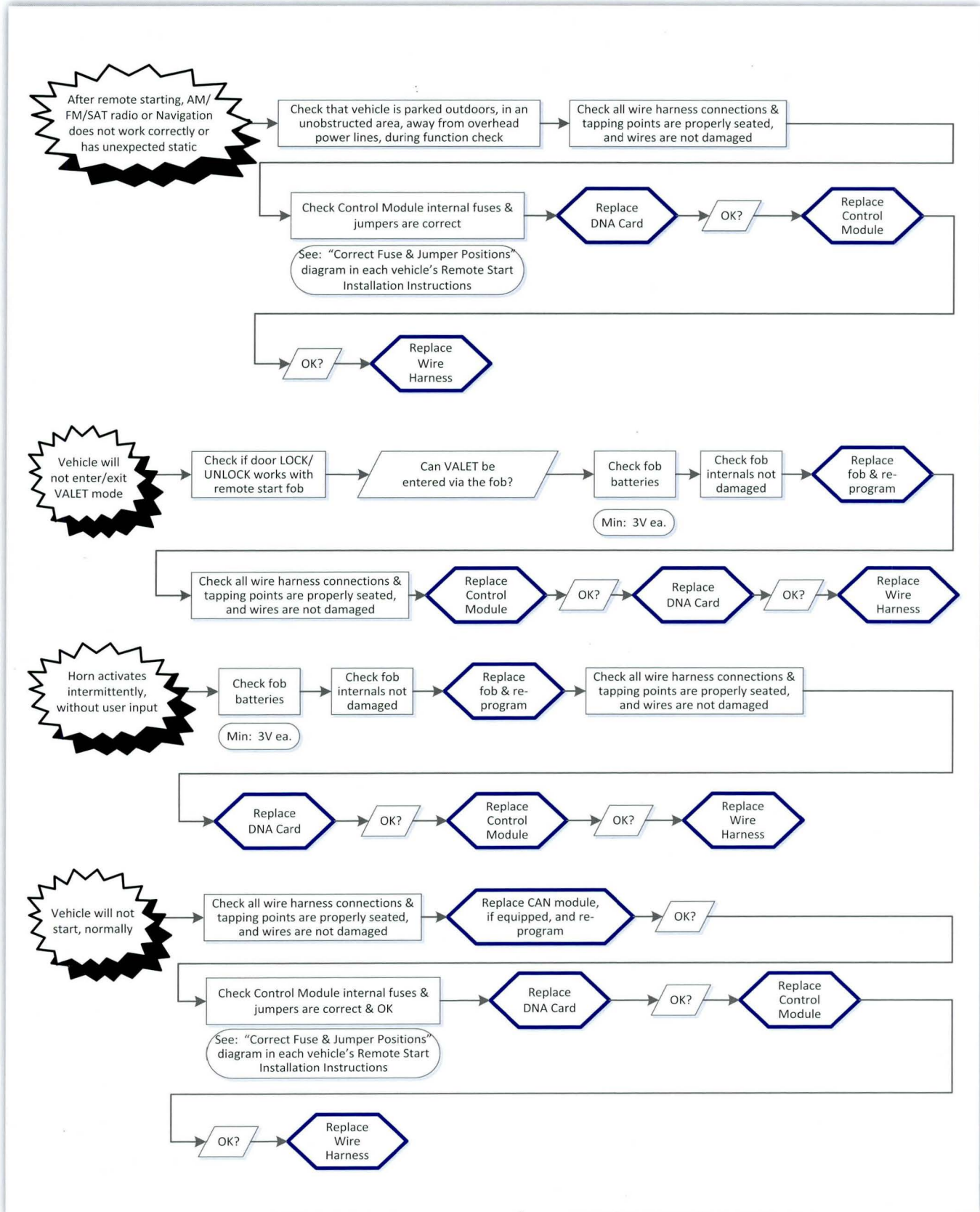


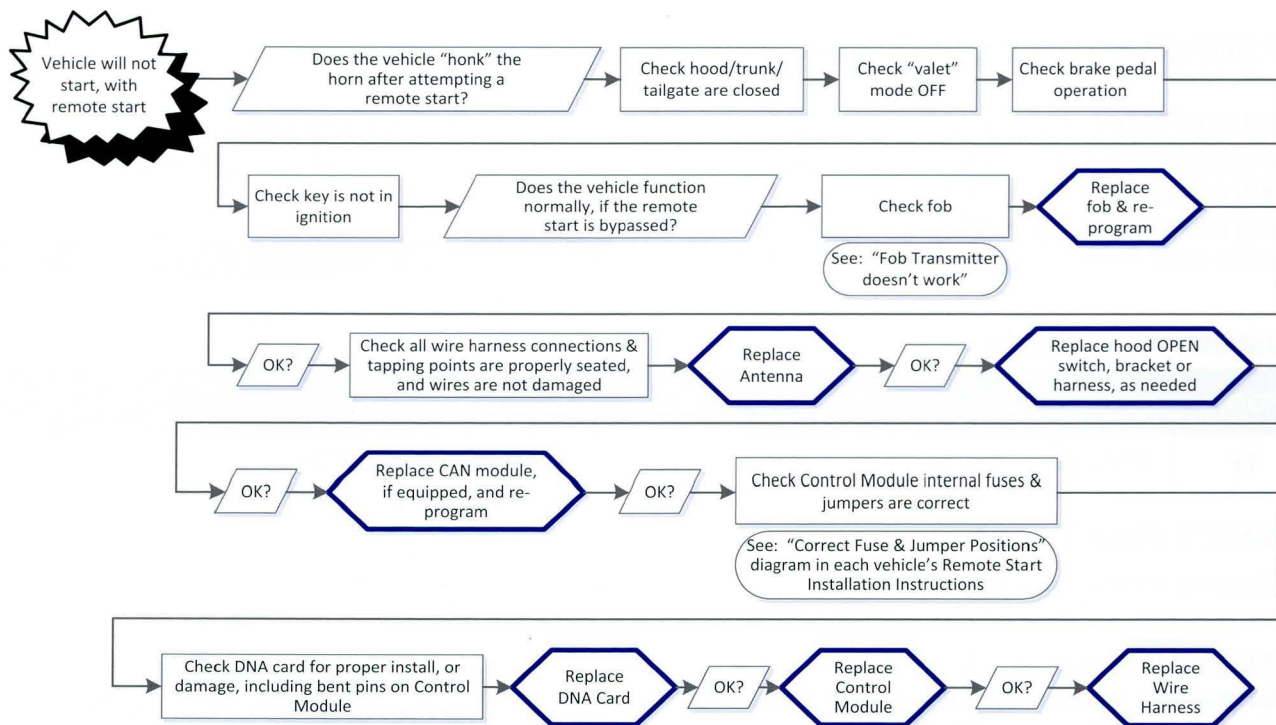


continued on page 8

Basic Diagnostic Guide: Remote Start

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TECS Star Award Points

In 2014, HMA will continue to award TECS training as follows:

- 2014 Equus Tech Certification course will award 1,000 points
 - Hyundai Assurance Car Care Express: Technician Overview will award 1,000 points in 2014
- | | |
|---|--|
| <ul style="list-style-type: none"> ■ BRONZE: 6,000 points + patch set ■ SILVER: 15,000 points + patch set ■ GOLD: 25,000 points + patch set ■ PLATINUM: 33,000 points + patch set ■ EQUUS: 14,000 points + patch set ■ HYBRID: 8,000 points + patch set | <ul style="list-style-type: none"> ■ TECS Individual Course Completion Awards <ul style="list-style-type: none"> ● 2014 New Technology Web Course: 500 points ● 2014 New Technology ILT Course: 1,000 points ● 2015 Genesis New Model ILT Course: 1,000 points |
|---|--|

Fix-It-Right

YF SONATA MDPS COUPLING REPLACEMENT

DESCRIPTION: This article describes the procedure to replace the flexible rubber coupling in the MDPS (motor driven power steering) assembly to address a minor clicking noise when turning the steering wheel in some Sonata (YF) vehicles.

APPLICABLE VEHICLES:

- Sonata (YF) vehicles produced from SOP to 12/11/2013

PART NAME	PART NUMBER	QTY
Flexible Coupling	56315-2K000-FFF	1

WARRANTY INFORMATION

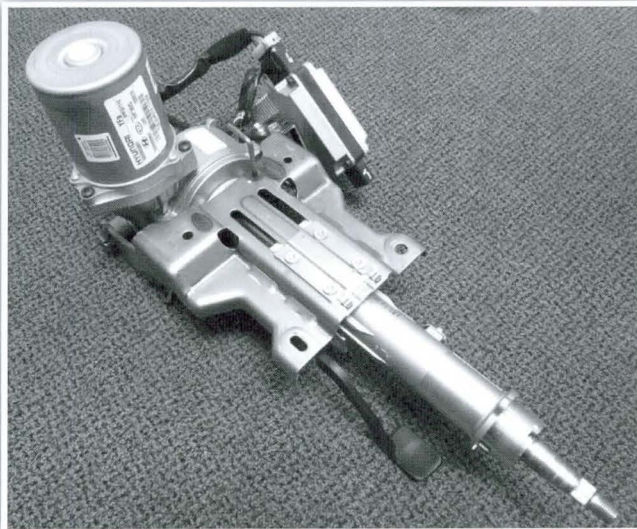
MODEL	OP CODE	OPERATION	OP TIME	CASUAL PART	NATURE CODE	CAUSE CODE
YF	56315F00	Replace MDPS flexible coupling	1.5 M/H	56315-2K000-FFF	N29	C06

SERVICE PROCEDURE:

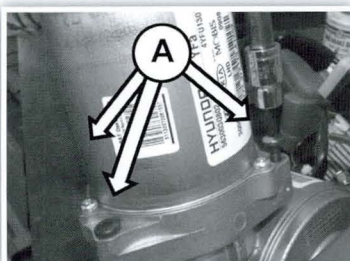
1. Remove MDPS assembly from the vehicle (refer to shop manual for removal procedure).

NOTE: Carefully align the steering wheel to the center position, with the front wheels pointing straight ahead before removing MDPS assembly.

When re-installing MDPS assembly, make sure the steering wheel is aligned to the center position, and that the front wheels are still pointing straight ahead.

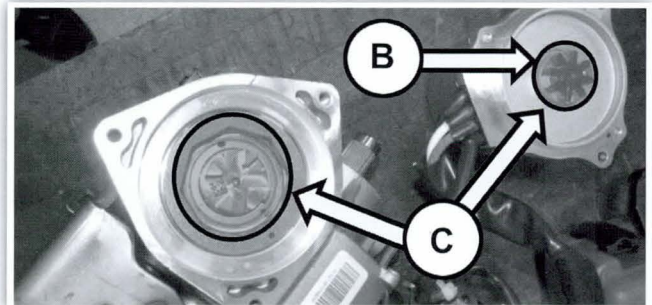


2. Loosen the 3 bolts (A) to remove the MDPS motor using a T25 socket, or similar tool.

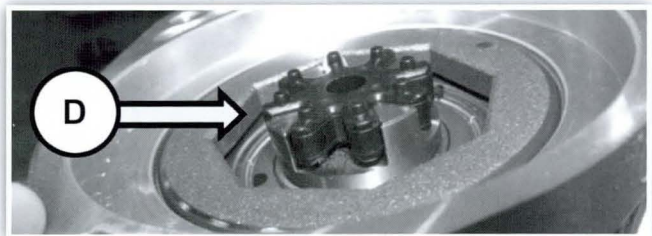
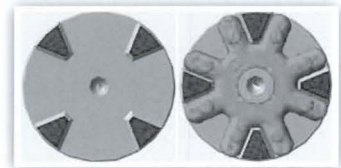


3. Remove rubber coupler (B).

Use an air gun or brush to remove all debris around the coupling seating areas (C)



4. Install new flexible coupler (D) into MDPS assembly. Verify that the coupling is correctly seated.

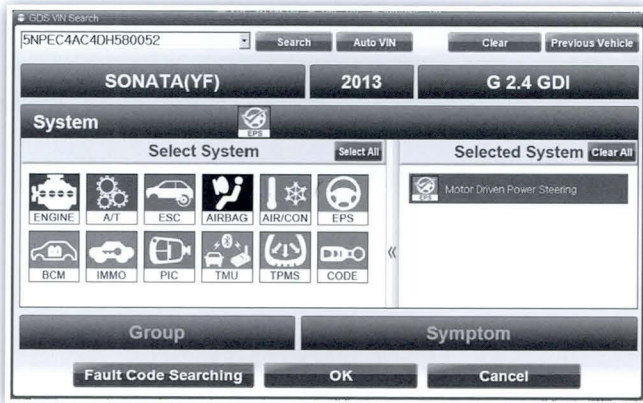


5. Install the motor back onto the assembly and re-install the MDPS assembly into the vehicle in the reverse order of removal.

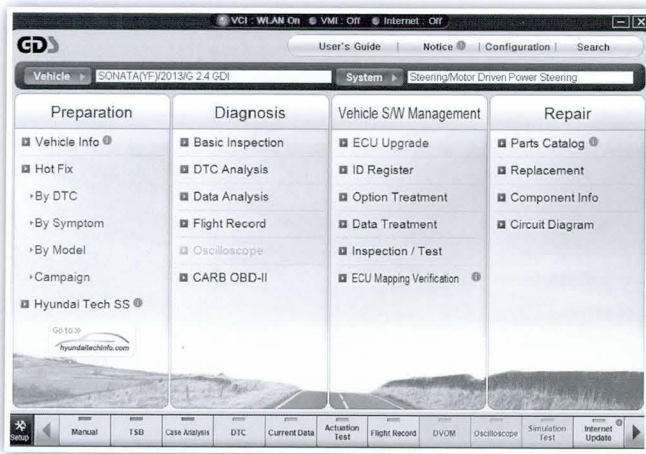
(Tightening torque MDPS motor bolts: 7.84~11.76 Nm or 0.8~1.2kgf)



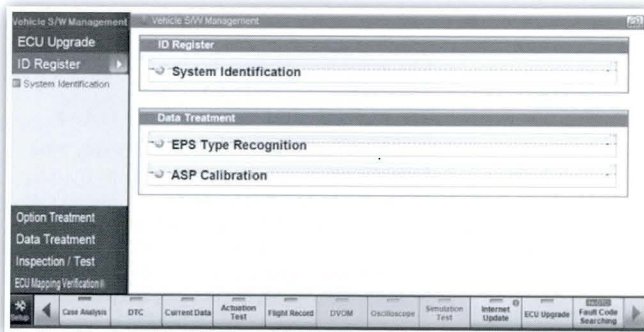
6. Connect GDS VCI to DLC connector. Connect VCI to GDS using USB cable. Turn the ignition ON and verify that all electrical systems turn off (no electrical load). Select model and EPS (Electric Power Steering) system, then press “OK” button on the screen.



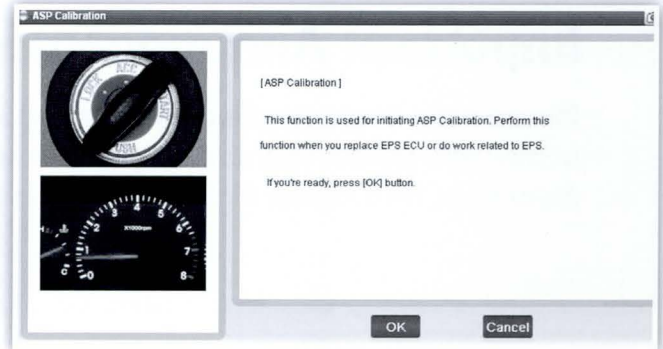
7. Select “Option Treatment” under the Vehicle S/W Management tab.o



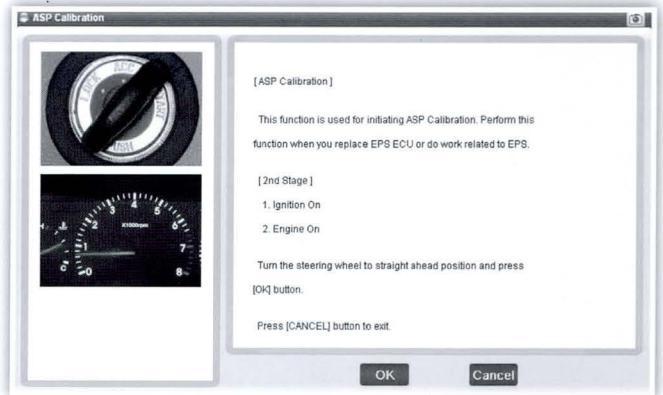
8. Select “ASP Calibration.”



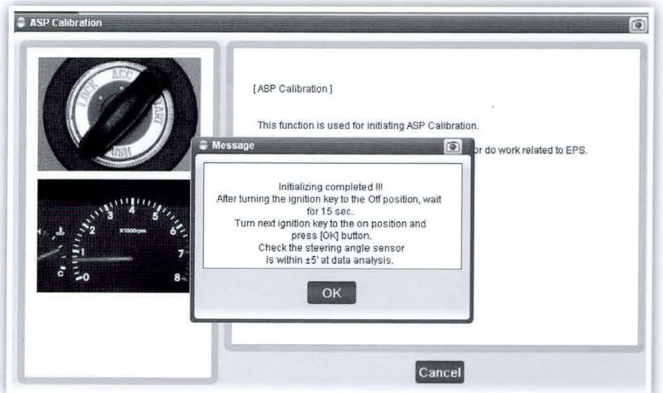
9. Press “OK” to continue with ASP calibration.



10. Center the steering wheel with the ignition ON and engine idling, then press “OK.”



11. Turn the ignition OFF and wait for 15 seconds. Then turn the ignition ON and press “OK.”



12. Under Current Data, verify that the Steering Angle Sensor value is at: 0.0 ± 5.0 degrees

Sensor Name	Value	Unit
Battery Voltage	11.89	V
Steering Wheel Torque	0	Nm
Steering Angle Sensor	0.0	°
Calibrated Steering Angle Sensor Offset	0	°
Steering Wheel Velocity	2	degree/s
Motor Current	0	A
Target Motor Current	0	A
Target Motor Torque	0	Nm
ECU Temperature	31	°C
Motor Temperature	36	°C
Percentage Of Derating	0	%
Vehicle Speed	0	MPH
Filtered Vehicle Speed	0	MPH
Angle Sensor Index Status	DETECT	-
Engine Status	STOP	-
Calibration Status	CAL. & INITIAL	-

Important Announcement

Please note: Beginning December 20th 2013, the Hyundai Motor America Service Information website now requires your dealership user ID and password to access the site. Anyone not using the dealer login, must register for a fee-based access to Hyundai's service information.

TECHNET TIDBIT

Hyundai Motor America's VET program assists veterans in their transition to civilian careers by providing a link through HyundaiCareers.com that gives access to Hyundai Dealership Service and Parts Department openings. Tell your veteran friends to check it out.

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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.

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