



TECH TIMES

2018 • VOLUME 21, ISSUE 2

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KIA SKILL WORLD CUP 2018

Technicians without borders! For the 9th time the top four Kia Skill National Cup contestants boarded a plane bound for Seoul Korea with the goal of competing with 77 other top technicians from around the world. But first they spent a few days at Kia Motors America in Irvine, CA, getting one-on-one training from previous competitor and Kia Central Region Technical Training Instructor, Jason Powell. Jason's experience, advice and coaching goes beyond vehicle diagnosis as the trip is a whirlwind of new adventures and complete exhaustion.

Each 2018 World Cup finalist was run through various vehicle diagnostic scenarios using not so common diagnostic tools like a Data Logger (common in other countries). Preparation went beyond the vehicle as the competition is a cultural experience as well. Contestants received an afternoon of Korea 101 where they learned Korean and Kia history, corporate structure, daily work life, and even a few important Korean word phrases like "An Nyeong, Ha say yo" meaning: Hi, Good day, and "Kam sam nida" or, as we know it, Thank you. Now you try to say it.

Loaded with friendly Korean phrases, the contestants boarded the plane Saturday night in Los Angeles, flew overnight and arrived on what was Monday morning in Korea. Wait! Where did Sunday go? The first task in Korea was a reception with

Greg Silvestri, Head of Service and After Sales Operations met with and congratulated the returning champions at Kia Motors America.



Kia Motor Corporation (KMC) executives and staff along with technician contestants from all over the world. There was a reception, a comprehensive written test, question after question about Kia vehicle technology, diagnosis and repair; even a couple diesel questions. Finally, an assembly plant tour in Hwaseong closed out the first day's events.

Competition day included an on-vehicle engine challenge, an

continued on page 3

TECHLINE FAQs

Q	I have a vehicle in for SC147 but it has a salvaged title. How do I proceed?	A	The salvage title does not invalidate SC147 safety recall and you should proceed as you normally would.
Q	How do I get a variant or ACU code?	A	When you create a case after pasting or typing the VIN into the box, simply click on the "more info" button and you will see a list that includes Campaigns, Service Actions, TSBs, Pit Stops, DTCs, ETM, Service Manual, ACU coding, and Key and Pin codes.
Q	Do I need to attach a WRTY 143 data form and return the core for Campaign SC147?	A	Beginning April 1, 2018, entire engine cores with starter bracket ear intact will be required to be received by KMA in order for dealers to receive their core deposit refund. If not received or if the starter bracket ears are broken, the dealer core deposit will be forfeited.
Q	How do you test the thermistor?	A	Place the sensing bulb in a glass of ice water to test at 32°F, then measure the resistance across the terminals and compare to the specifications chart in KGIS for the component.
Q	Why is Techline requesting detailed information for PWA cases?	A	The reason for this is the PWA case will later be reviewed by the warranty dept. and if the information is not adequate the claim can be rejected. So to avoid this, Techline agents request as much detailed information as possible.

LATEST TECHNICAL SERVICE BULLETINS, SERVICE ACTIONS AND CAMPAIGNS

ELE 146	SA: Front Wiring Harness Securing and/or Repair (SA343) (17-18MY DE P/HEV)
ENG 188	SA: Electric Thermostat Assembly Replacement (SA346) (17-18MY YG)
CLI 043	A/C Fan Control Logic Improvement and Cooling Fan/Cooling Fan Resistor Inspection or Replacement (12-15MY UB)
ELE 147	BMS Logic Improvement For DTC P1B70 (11-16MY TF HEV)
SST 057	Kia Smart Battery Tester User Guide (All Models)
SST 055r1	Kia Vehicle Inspection & Delivery (KVID) Program (All Models)
SC 147r8	Theta II Engine Inspection and/or Replacement (11-14MY QF/TF, 12-14MY XMa, 11-13MY SL)
CHA 089r1	SA: Rear Lower Control Arm Replacement (SA338) (18MY DE PHEV)

⚠ CAUTION

Vehicle servicing performed by untrained persons could result in damage to the vehicle.

⚠ WARNING

- Vehicle servicing performed by untrained persons could result in injury to those persons or to others.
- Always take proper and necessary safety precautions when performing any type of service on a vehicle.
- The Kia technician newsletter (Tech Times) is intended for use by professional Kia automotive technicians only. It is written to inform technicians of conditions that may occur on some vehicles. Trained Kia technicians have the equipment, tools, safety instructions, publications and expertise to help perform the job correctly.

NOTICE

The topics covered in this newsletter are designed to assist you with the diagnosis and repair of specific vehicle conditions. Just because a condition is described in this newsletter, do not assume that it applies to your vehicle, or that your vehicle will have that condition. In all cases, the procedures in the applicable Service Manual and/or Electrical Troubleshooting Manual or on KGIS should be performed first.

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KIA SKILL WORLD CUP 2018 (CONTINUED)

electrical simulator, and a chassis related repair. Each task is a daunting challenge, requiring diagnostic reasoning, clearly documenting the concern, cause and correction along with being judged on professionalism, preparation, vehicle care, proper tool usage and workstation organization.

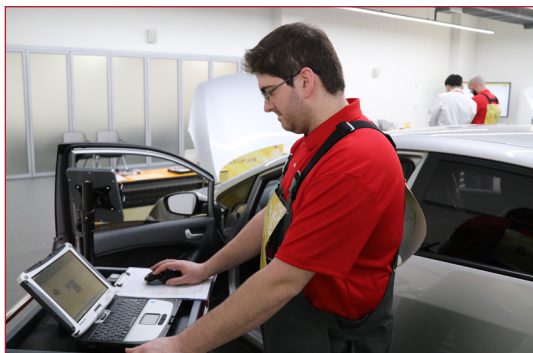
While the judges were busy tallying the scores, debating individual performance and determining winners, the technicians were given a cultural tour of Gyongbok Palace and Korea's ultra high tech Kia dealership called Beat 360. So how'd Team USA do? Jason Jackson from



Seiner Kia Salt Lake in Salt Lake City, Utah brought home the Silver Medal and a hefty cash prize. All the competitors, including Tim Carlson from Martin Swanty Kia in Kingman, Arizona, Shane Johnson from Sansone Jr's 66 in Neptune, New Jersey and Corey Sloan, from Rusty Wallace Kia of Knoxville in Knoxville, Tennessee had the experience of a lifetime. And each is excited to accept the challenge to earn a place in 2020. However, with Jason's outstanding success earning a Silver Medal, he has to retire from competition.

That leaves space open in 2020: **Are you ready for the challenge?** Start preparing today. It's not easy, but it's worth it. Maintain or achieve Kia Master or Master Elite level and be ready to take the 2020 Skill National Cup qualifying test to start your successful technical adventure to proudly claim your "Best of the Best" position.

See you in 2020 and *Haeng-un-eul binida* (Good luck)!



OPERATING CHARACTERISTICS OF A PLUG-IN HYBRID – PART 2

A Kia Hybrid Electric Vehicle (HEV) operates very much like a normal vehicle; it starts, drives and stops in very similar ways. A Kia Plug-In Hybrid Electric Vehicle (PHEV), while similar to a HEV vehicle, does have several features and differences that a customer may notice. In part 2 of this article, we discuss these differences on both Optima and Niro PHEV vehicles.



Using the UVO ECO app

No remote climate control while plugged in (Optima only)

The Optima will not allow remote climate control while plugged in, whether charging is occurring or not, this however does not apply to Niro PHEV. The app will report back "Start Climate Failed" and if you have UVO notifications turned ON (on the iPhone) you can get an UVO notifications stating "Remote Request Error! Your vehicle's charging cable is plugged in and cannot process climate requests."

No need to press the Start Stop Button (SSB) if remote climate control is commanded ON

On both Optima and Niro, if remote heating/cooling has been initiated, it cycles on for 10 minutes. If you are getting in the car within the 10-minute period, unlock the car normally with Smart Key fob, app or door handle button. Once inside the vehicle there is no need to press the Start-Stop Button (SSB); the vehicle switches to Ready Mode (ON) once it detects the Smart Key fob inside.

EV mode on both Optima and Niro PHEVs

Always EV mode first when charged

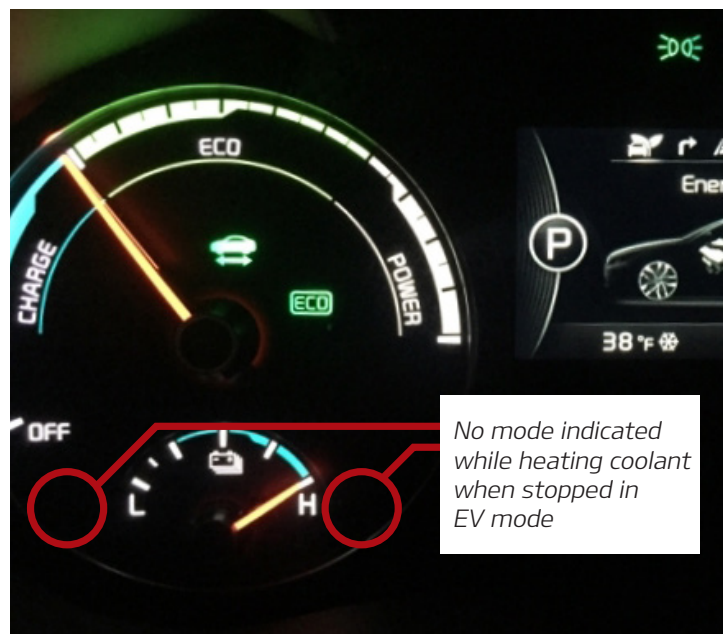
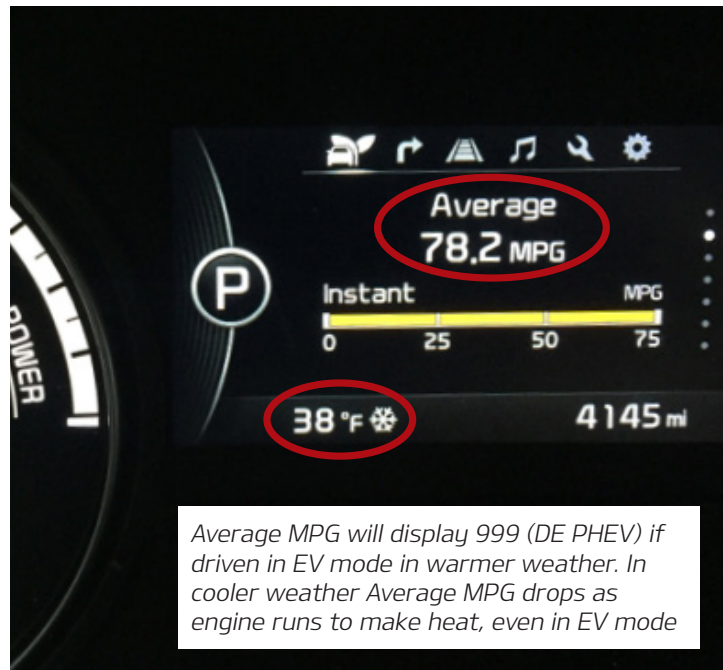
On both Optima and Niro; if EV charge range is available, upon startup (Ready ON) the vehicle will attempt to use that charge first. In other words, normal operation is EV mode until EV charge is depleted, then the vehicle will change to HEV mode.

Gas engine will run in EV mode

Driving the vehicle in EV mode with a charged battery does not mean the engine doesn't run. Under hard acceleration the engine will start and run to assist the drive motor.

In cooler climates, in EV mode, the engine will run to make hot coolant for the HVAC system, but not to move the vehicle. Power flow display on the dash indicates the engine is charging the battery but not driving the wheels. Therefore, cabin heating demands will require fuel consumption even in EV mode.

If the vehicle is in EV mode and not moving while the engine runs to create heat, there will be no indicator for the drive mode it is in. Once it begins moving, EV illuminates (even while the engine is running).



EV Mode MPG

If the vehicle is driven only within its EV range in a warmer climate where no engine operation is required, the dash MPG display will indicate an MPG of 99.9 (JF PHEV) and 999 (DE PHEV) miles per gallon, which is the maximum calculation.

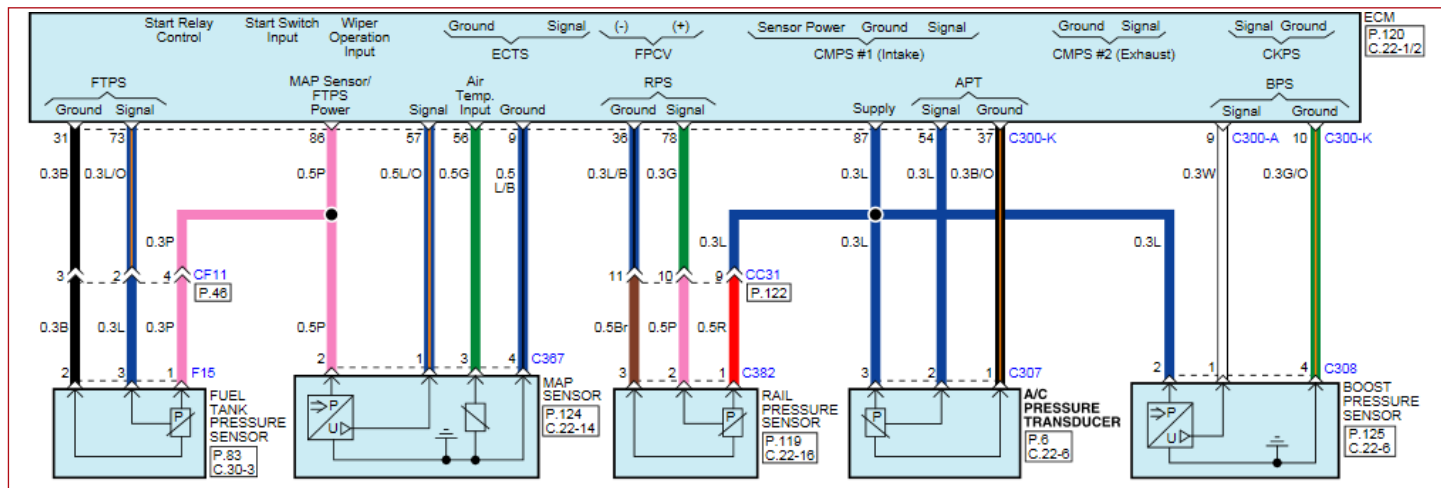
In cooler climates, engine operation for heating coolant will lower the MPG even when driven in EV mode. See picture for cool weather MPG example.

Charging

Charging on both Optima and Niro using the supplied Level 1 charger will only work with a properly rated and grounded outlet. Using the Level 1 charger on a non-grounded outlet cable box will show a fault.

JOE'S CORNER

DON'T LET THE PRESSURE GET TO YOU!



Continuing in this ongoing series of articles Tips & Tricks of the Trade, I will show you how to diagnose pressure sensors.

They have only three (3) wires to deal with:

- Sensor Supply
- Sensor Signal
- Sensor Ground

Easy to check:

- ☐ Install T-Connector between the sensor and wiring harness
- ☐ **Key On Engine Off**
- ☐ Measure Sensor Supply to Sensor Ground
- ☐ Measure Sensor Supply to Chassis Ground
- ☐ Subtract the smaller voltage from the larger voltage

Should be less than 200mV (0.20Vdc)

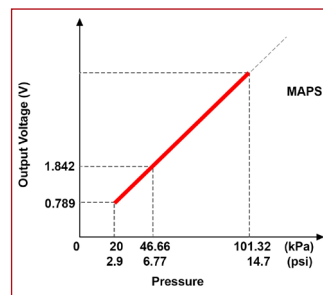
If not:

- ☐ Clean the ECM/PCM Ground(s) at the Body Connection(s)
- ☐ Clean the Negative Battery Cable at the Battery Post and Body Connection
- ☐ Clean the Positive Battery Cable at the Battery Post

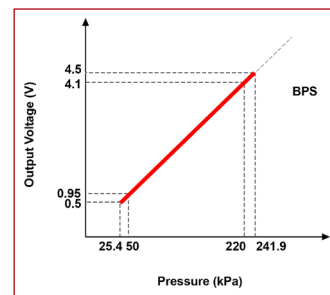
If OK:

- ☐ Measure signal voltage to sensor ground
- ☐ Use Data Analysis to view the sensor pressure & voltage (if available). **Voltage values should be the same**
- ☐ Connect a **(Less Than 10A) FUSED Jumper Wire** between the Sensor Supply & Signal terminals. **The sensor pressure value should change.**
- ☐ Check for related DTC (Range Performance/Input High)
- ☐ Remove the FUSED jumper wire
- ☐ Clear any DTCs
- ☐ Connect a **(Less Than 10A) FUSED Jumper Wire** between the Signal & Ground terminals. **The sensor pressure value should change.**
- ☐ Check for related DTC (Range Performance/Input Low)
- ☐ Remove the FUSED jumper wire
- ☐ Clear any DTCs
- ☐ **KEY OFF**

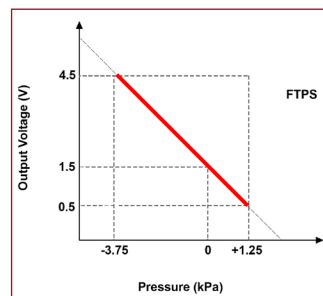
In most cases, that is all there is to it. Below are some typical voltage values of the most common pressure sensors.



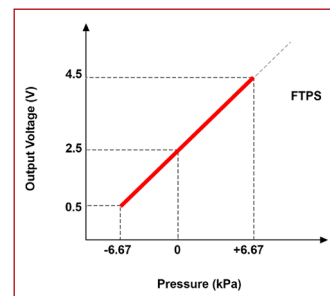
Manifold Absolute Pressure Sensor



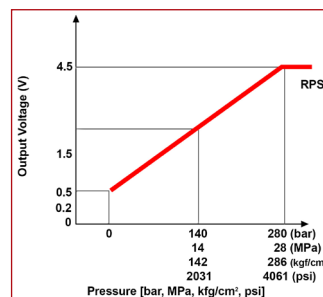
Barometric Pressure Sensor



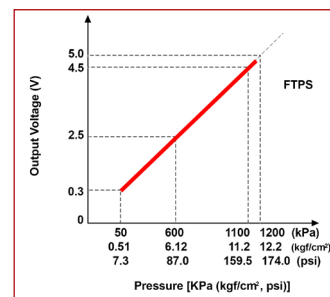
Fuel Tank Pressure Sensor



Fuel Tank Pressure Sensor



Rail Pressure Sensor



Fuel Pump Pressure Sensor

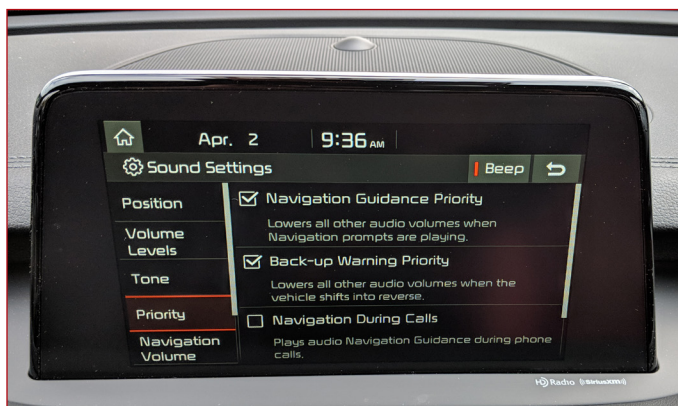
STINGER SOUND SYSTEM SETTINGS

This article provides information about some of the sound system settings available in the Stinger (CK) vehicles with Premium Navigation (**720-watt Harmon/Kardon Quantum Logic Surround Sound System with 15 speakers**). Specific settings covered in this article are Quantum Logic Surround, Clari-fi, and the Priority Sound Settings.

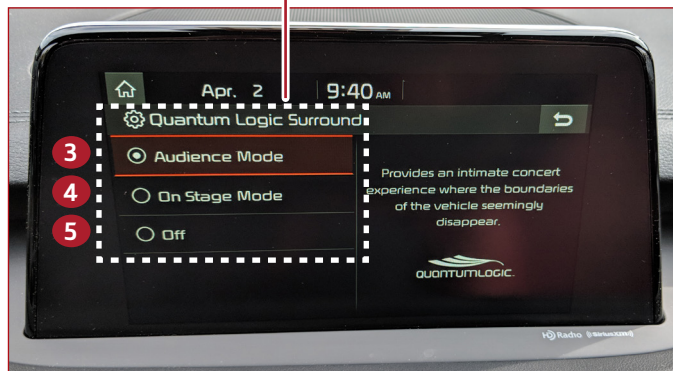
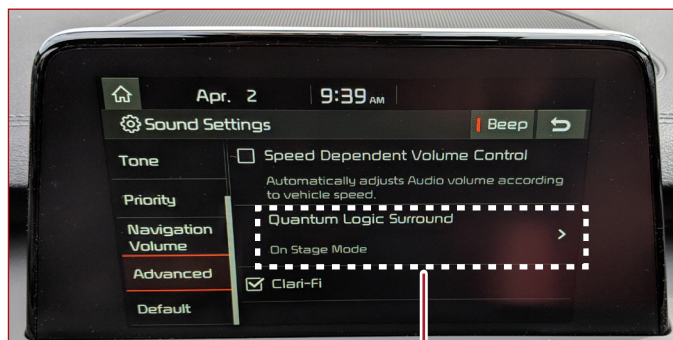
To access the sound settings, press the **SETUP** hardkey **1** and select the **Sound** icon **2**.



The sound settings consist of the following categories shown below, on the left menu screen: Position, Volume Levels, Tone, Priority, and Navigation Volume; **NOTE:** Advanced and Default settings shown on the right.



Quantum Logic Surround and **Clari-fi** are found in the **Advanced** settings along with **Speed Dependent Volume Control**.



Quantum Logic Surround

Within the Quantum Logic Surround, there are three (3) available settings: Audience Mode, On Stage Mode, and Off.

- **Audience Mode** **3** aims to provide an intimate concert-like experience where the boundaries of the vehicle seemingly disappear (sound comes from a stage in front of the driver)
- **On Stage Mode** **4** is a surround sound experience that puts listeners on stage with their favorite artists placing individual instruments and musical elements throughout the cabin (sound surrounds the driver as if the driver is on stage with the instruments/singers)
- **Off** **5** Quantum Surround Logic is disabled (off)

Clari-fi (Harman Music Restoration Technology)

- Some music sources are digitally compressed (such as files sourced from satellite radio or some streaming music sources)
- Clari-fi scans compressed music files and rebuilds details lost during compression resulting in clearer and more dynamic sound performance
- Reference the link to the Harman Clari-fi website for more information: <http://www.clarifisound.com>

It is important to be aware of the options in **Priority** as some customers may not realize that they can choose to enable or disable these settings. Not being aware of these options, may result in customer complaints regarding the volume lowering during engine start up or when shifting transmission into reverse.

Continued next page

STINGER SOUND SYSTEM SETTINGS (CONTINUED)

The **Priority** setting includes the following menu options (touch check box to turn on or off) on the right side of the screen:

- **Navigation Guidance Priority** **6**

Priority is given to the navigation guidance and other audio volumes are lowered.

- **Back Up Warning Priority** **7**

The audio volume is lowered when the transmission is shifted into reverse.

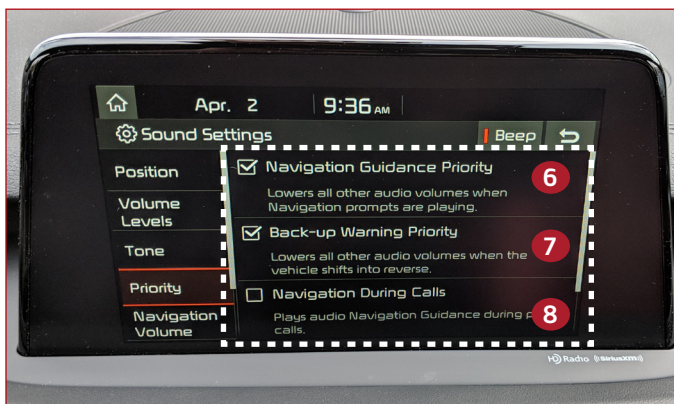
- **Navigation during Call** **8**

Navigation guidance will play during active phone calls.

- **Start Up Volume** (scroll down to view) **9**

Radio and media volumes are lowered upon vehicle start up if the volume is above a set maximum level during start-up.

Please refer to PitStop PS557.



R1234YF OIL AND DYE INJECTORS

Using fluorescent leak detection dye in the vehicle's A/C system could aid in locating refrigerant leaks. R1234yf A/C systems Oil and Dye Injector Kits are available through Snap-On Business Solutions.

Tips for Use

- Follow instructions included with the Oil/Dye Injector Kit.
- Ensure that the oil and dye is compatible with the R1234yf system being serviced.
- Avoid overfilling the Injector chamber and remove all air from the injector hose.
- Attach the injector coupler to the vehicle's low side port.
- UV Leak Detection Lamp is required in conjunction with the LD-2 Arctic Pro Leak Detector.

- The vehicle's A/C system must be running to circulate dye throughout the system.
- Dye needs time to penetrate all the A/C systems lines and components.
- Avoid checking the A/C system immediately after adding dye.

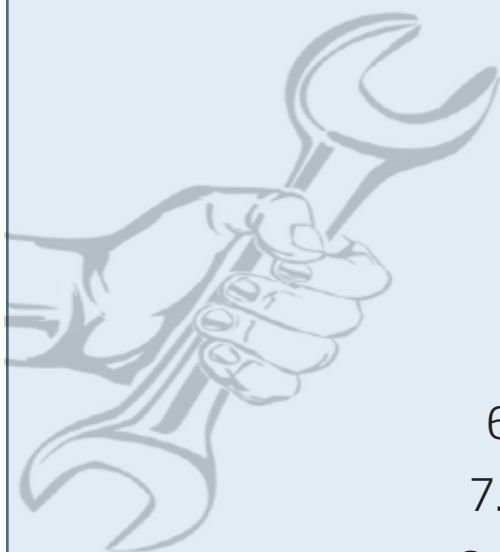
Contact Info: Snap-On Business Solutions / (888) 542-1011 / www.KiaSpecialTools.com.

For additional information for R1234yf service and equipment refer to TSB: SST054 and SST044.

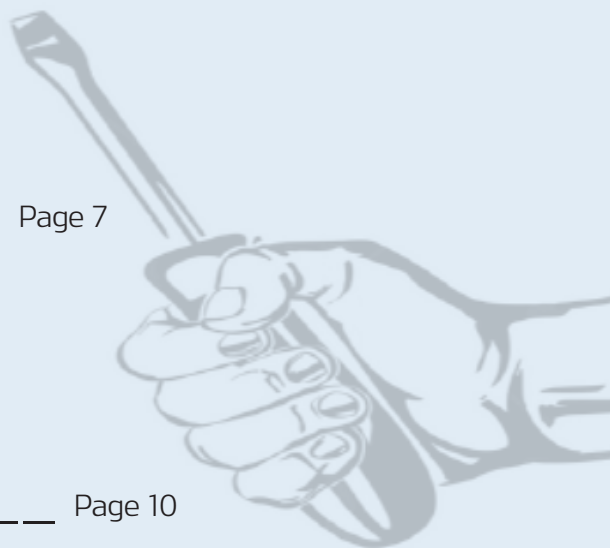
Part Number NOTE: Although there are 2 parts listed below, only 1 is to be used.	Description	Image	
AIR90023	R1234yf Refill Dye/Oil Injector. To inject the oil, simply connect the injector to the low side of the A/C system and twist the handle until you reach the desired amount.	Large Injector with 5-inch hose	
ACT53135	The injector hose comes complete with a R1234yf coupler	Refill Dye/Oil Injector	

TEST YOUR TECH TIMES KNOWLEDGE WORD SCRAMBLE

Test your search ability on this puzzle: we have taken 19 words from articles in this issue and scrambled them. Unscramble the words; use the letters underlined in red to reveal the secret phrase in the box at the bottom of the page. Solution is on page 13.



1. OTCSTNEANT _____ Page 1
2. MCEOPTOIRT _____ Page 1
3. THERTMISRO _____ Page 2
4. RVNAAIT _____ Page 2
5. TCNEHCIINA _____ Page 1
6. AUQLIFIYNG _____ Page 3
7. DTOIECETN _____ Page 7
8. ALRCIAETOENC _____ Page 4
9. SNSREO _____ Page 5
10. BRAKCTE _____ Page 13
11. NAQMUUT _____ Page 6
12. LTECRUEFONS _____ Page 7
13. FILSITAN _____ Page 1
14. HNREASS _____ Page 12
15. TSRETE _____ Page 12
16. NINTTEEMRTIT _____ Page 10
17. MIUASTLRO _____ Page 3
18. OSNOSMICREP _____ Page 6
19. NALISYAS _____ Page 5
20. AYTTRBE _____ Page 11
21. LCSIEEN _____ Page 13
22. REOKA _____ Page 1
23. NIRUTOSIN _____ Page 13



The Kia Niro is ...

" _____

 _____ "

KDS CAN LINE INSPECTION FEATURE

The KDS features a special diagnostic feature that can greatly assist technicians when diagnosing Controller Area Network (CAN) concerns on most newer Kia vehicles.

The function of the KDS CAN Line Inspection tool is for the KDS to perform a quick network test of all the modules that communicate and transmit on the vehicles' C-CAN network.

To perform the test:

1. Navigate from the KDS Main page (See Fig. 1) and select S/W Management.
2. Once the S/W screen list of Systems is displayed, scroll down and select "CAN Line Inspection" (See Fig. 2)
3. Review the CAN Line Monitoring test instructions and other critical details in the etc. portion of the screen.

NOTE: It is recommended that this test be performed with the engine running

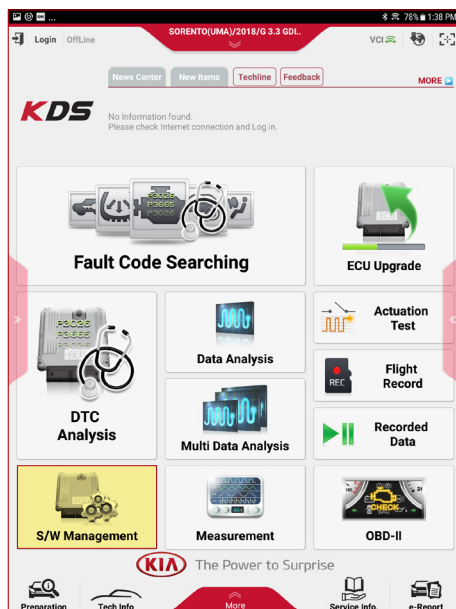


Fig. 1. KDS Main Page (S/W Management highlighted)

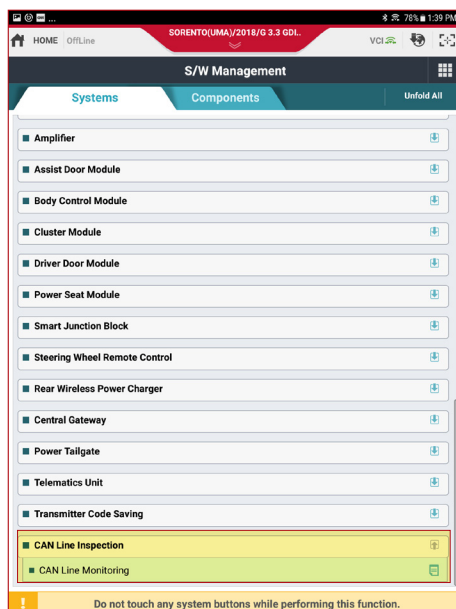


Fig. 2. S/W Management Page (CAN Line Inspection tab at bottom, highlighted)

Once the "OK" button is selected, the test will begin and each module box shown on the screen will change color to green if the test result is OK or pass (see Fig. 5). Once the test is completed, a popup window will display the test results and which C-CAN network Modules (if any) did not communicate.

If any modules are shown as "Fail" (shown in red) make sure that the module is equipped in the vehicle. If vehicle is equipped with module, then further testing/ diagnosis will be required (e.g., Fault Code Searching and related diagnosis) to address the root cause of the network concern.

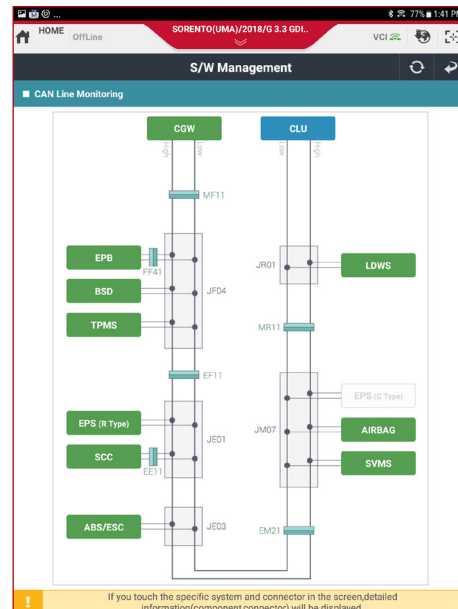


Fig. 3. CAN Line Monitoring Page

CAN Monitoring	
Purpose	To check CAN Line.
Enable Condition	1. Ignition Switch On
Concerned Component	-
Concerned DTC	-
Fail Safe	CAN communication error
Etc	Meaning of color and behavior of the System icons - Charcoal: Before checking - Flashing: Checking - Green: Communication successful - Red: Communication failure - Gray: Not applied specification

Fig. 4. CAN Line Monitoring Index

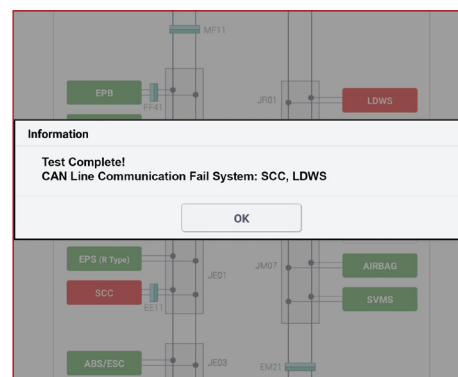


Fig. 5. Test Result Screen

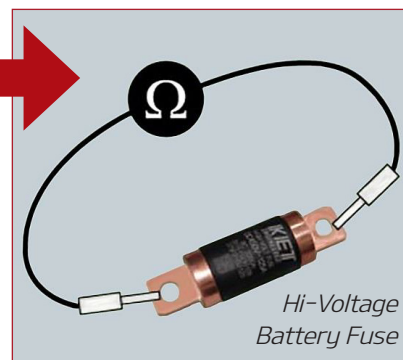
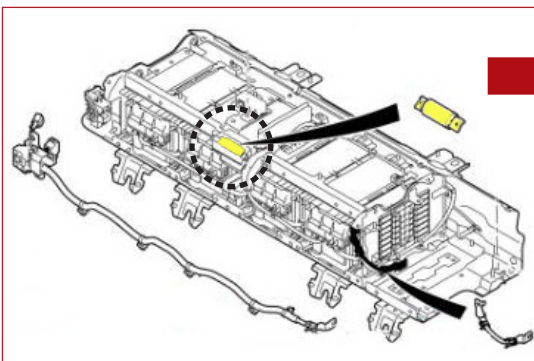
NIRO (DE) - HEV WARNING LIGHT AND DTC P1B25/P1B77

This article provides information when addressing a concern related to the Niro HV warning light ON, and KDS detects a primary DTC P1B25 (HV Path Fault) and secondary DTC P1B77 (HV Pre-Charge Fault), then the 125 Amp High Voltage Battery Fuse should be inspected for an intermittent and/or an open condition.

Remove the HV battery safety plug, to shut off the high voltage circuit, and remove the high voltage fuse by referring to the applicable Shop Manual on KGIS.

⚠ DANGER

When performing this procedure, follow all EV battery safety precaution procedures found in the "General Information → General Safety Information and Caution" chapter in the Shop Manual on KGIS and wear all required Personal Protection Equipment (PPE). Failure to follow the safety instructions may result in serious electrical injuries.



Measure the resistance while tapping on the fuse (less than <1Ω resistance).

Specification: 1Ω or less (68°F)

If the measured resistance is not within specification, or the P1B25 DTC is intermittent, replace the 125 Amp main HV battery fuse with the newer 175 Amp main HV battery fuse. (Part# 375F2 A8170)

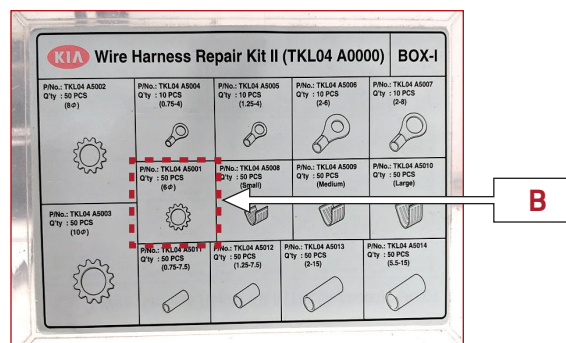
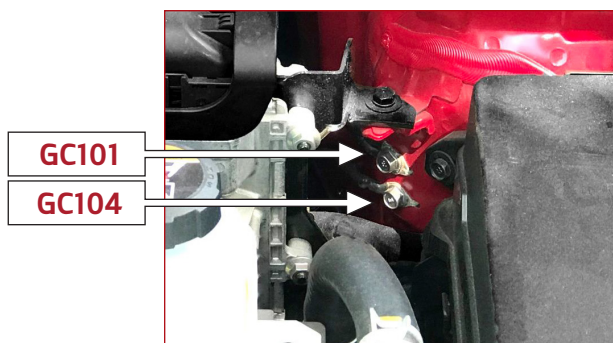
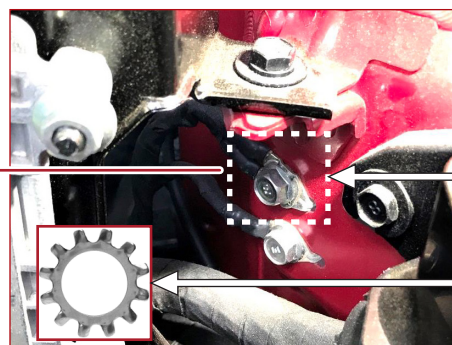
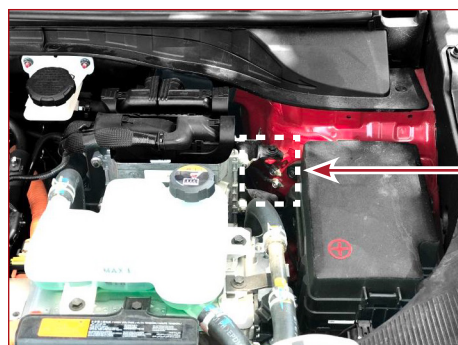
Please refer to PitStop PS553.

NIRO (DE) - HEV/PHEV ENGINE DTC P060500 - ECU ROM ERROR

This article provides information regarding the possible illumination of the malfunction indicator light (MIL) on some 2017-2018MY Niro (DE PHEV and HEV) vehicles with a stored DTC: P060500 (Internal Control Module Read Only Memory / ROM Error). This condition may be difficult to duplicate, and may be due to insufficient contact between the GC101 ground **A** and the vehicle body. Improve the ground

connection by cleaning the area of contact of the GC101 bolt **A** to metal (no paint) and by adding an external tooth lock washer **B** between the ground wire and body. Use Wire Harness Repair Kit II (TKL04-A0000) star washer **B** part number TKL04-A5001 or equivalent.

Please refer to PitStop PS556.



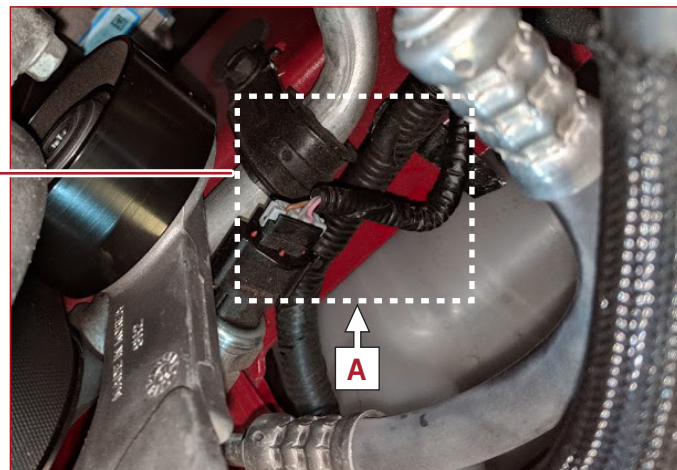
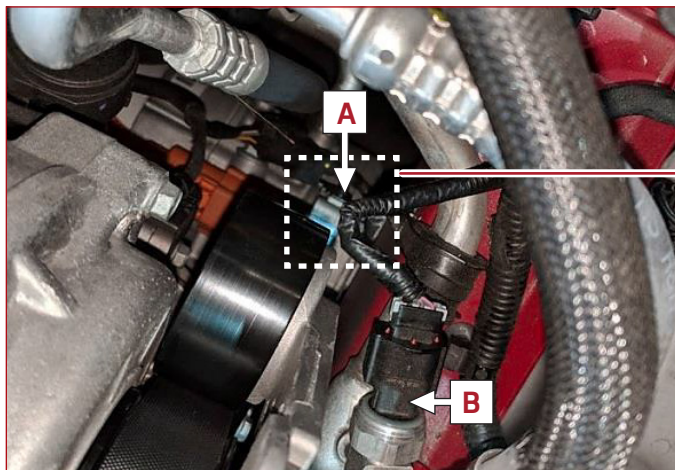
NIRO (DE) HEV – DTCs P0A0F AND P040400 AND/OR IMPROPER A/C OPERATION

This article provides information when addressing a concern related to DTC's P0A0F (Engine failed to start), P040400 (Exhaust Gas Recirculation Control Circuit Range/Performance), and/or improper A/C system operation, note that the cause may be related to a shorted A/C Pressure Transducer Wiring Harness **B** as a result of interference with the engine drive belt idler pulley, in vehicles produced prior to August 21, 2017. If this condition is found, the

harness **A** should be repaired, re-routed and secured away from the pulley to prevent it from damage. Confirm all related components are functioning as designed.

NOTE: Engine ECU 5V reference voltage can be abnormal if harness is damaged.

Please refer to PitStop PS554.



STINGER (CK) – BATTERY INSPECTION AND TESTING PROCEDURE USING GR8

This article provides information regarding how to properly inspect and test the battery on 18MY Stinger (CK) using GR8. The Stinger (CK) models have two (2) differently rated AGM batteries. Refer to the table below.

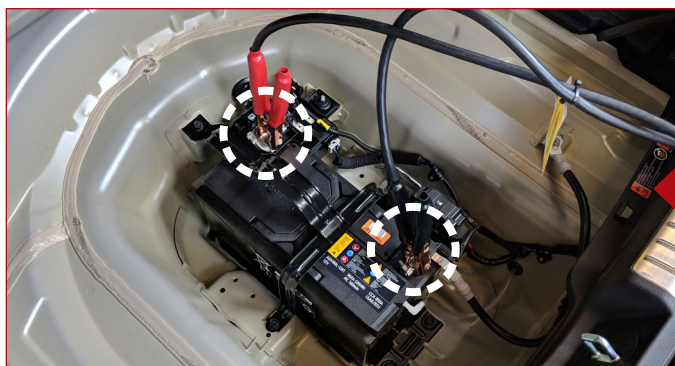
When required to connect GR8 to the battery in a Stinger to inspect and test the battery, whether during PDI or at other times, ensure to always conduct GR8 battery test directly at the battery posts as shown below, not at clamp(s) located under the hood. Testing the battery using clamps under the hood can result in false "measured Cold Cranking Amps" (CCA) and voltage readings, resulting in unnecessary battery replacement. When prompted to charge the battery by GR8, connect probes directly to the battery posts to ensure proper charging.

Removal of rear floor cargo cover and spare tire is necessary to access the battery located in the rear cargo area.

Model	Engine	Battery
CK	2.0L	800CCA
	3.3L	850CCA

Note: Be sure the GR8 software is up-to-date before using. If necessary refer to TSB SST052 to update to software Version 192-210185F.

Please refer to PitStop PS549.



KIA SMART BATTERY TESTER INTRODUCTION

Kia is introducing the upcoming Kia Smart Battery Tester. The Smart Battery Tester is a lightweight, easy to use tool with immediate feedback. The Smart Battery Tester provides a portable and speedy real time solution to support the PDI process, vehicle battery diagnostics, inventory maintenance, and express lane service, among other capabilities.

The Smart Battery Tester is the most capable, affordable, and user-friendly professional battery tester and leverages the power of smart phones, tablets, and the internet.

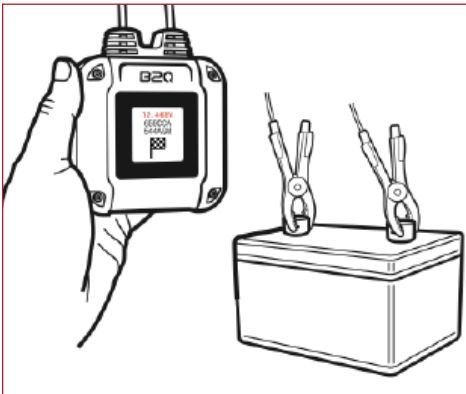
The Kia Smart Battery Tester will be introduced as an essential tool with a minimum of two (2) Smart Battery testers per dealer beginning mid-May. The User's Guide and information regarding use of the Kia Smart Battery Tester will be available on **TSB SST057**, at the time of Kia Smart Battery Tester launch.



Kia Smart Battery Tester Benefits

- The Smart Battery Tester is simple and easy with no buttons to push.
- Very fast test routine, accompanied by VIN barcode scanning provides:
 - Quick and error free battery testing for use on the lot or in the service lane
 - User-friendly for everyone at the dealership (lot porter, service advisor, technician, sales consultant, etc.)
 - Accurate selection of vehicle and battery specifications
- B2Q App can be installed on KDS, KVID, CVIS, Android or Apple devices/phones.
- Updates will occur via device app updates; no cumbersome updates with serial data cables and/or internet consuming time to update.
- The tester can work without Wi-Fi in off-site storage lots; all files will synchronize once the smart device/tablets are in range of Wi Fi.
- The Kia Smart Battery tester is able to print results to B2Q compatible *Bluetooth®* printers, network printers or the results can be emailed.
- Web portal access will be available through kdealer.com to monitor dealership personnel battery test activity.

Easy to Use



1. Connect the Kia Smart Battery Tester clamps to the battery.



2. Using the (free) B2Q Scan app on an iOS or Android device, scan the QR Code on the Smart Battery Tester.



3. View the test results and recommendations on the app. Save, print, or share the results.

The Kia Smart Battery Tester will be introduced as an essential tool with 2 Kia Smart Battery testers per dealer beginning mid-May. Additional Smart Battery Testers and optional *Bluetooth®* printers are available for purchase through Snap-On Business Solutions.

Part Number	Item	Costs	Comment
N/A	Kia Smart Battery Tester (intro pricing)	\$698.00 per 2 testers	Initial essential distribution
BQTB1EXK	Kia Smart Battery Tester (each)	\$407.00	To order, contact Snap-On Business Solutions at (888) 542-1011
RG-MTP58B	REGO <i>Bluetooth</i> ® Printer	\$125.00	
<i>Note: Costs are subject to change without notice</i>			

Please refer to TSB SST059.

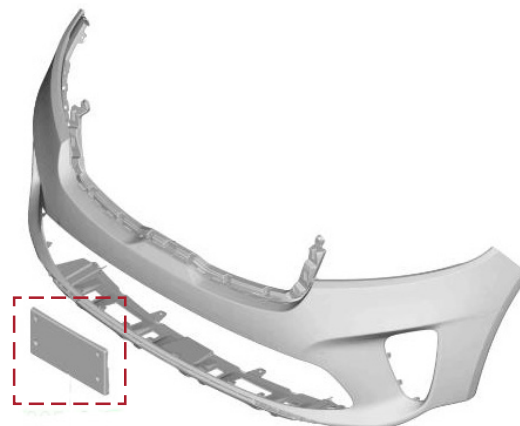
FRONT LICENSE PLATE BRACKET AVAILABILITY

This article provides information regarding a change to front license plate bracket availability on some 2019MY Sorento (UMa) vehicles. Beginning with 2019MY, front license plate brackets will only be included on Sorento (UMa) vehicles delivered to states that require display of the front license plate. Front license plate brackets will no longer be included on Sorento (UMa) vehicles shipped to the following states, excluding fleet units:

- Alabama
- Arkansas
- Arizona
- Delaware
- Florida
- Georgia
- Indiana
- Kansas
- Kentucky
- Louisiana
- Michigan
- Mississippi
- North Carolina
- New Mexico
- Oklahoma
- Pennsylvania
- South Carolina
- Tennessee
- West Virginia

In the situation where interstate vehicle trade occurs to a dealership with front license plate requirement, the correct

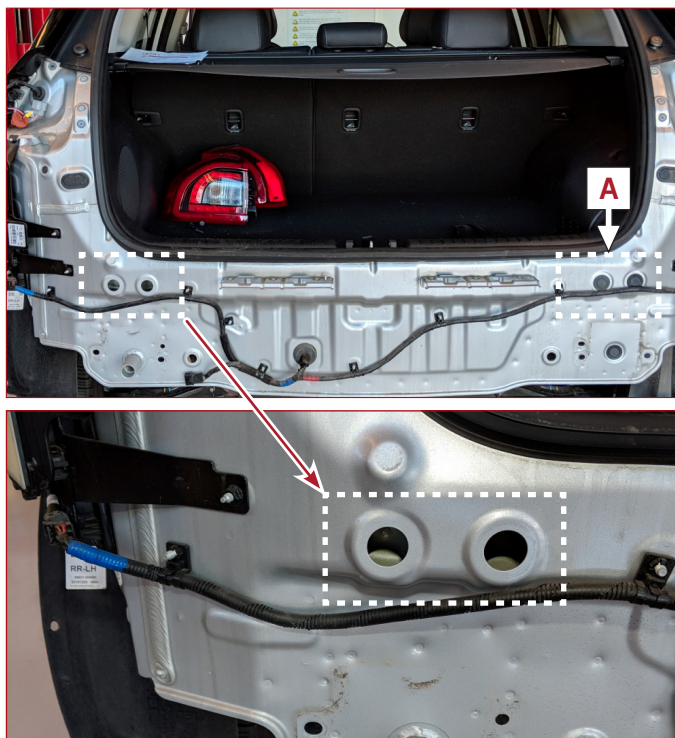
license plate bracket must be ordered by referring to the Electronic Parts Catalogue (EPC). It is important to note that installation of an incorrect license plate bracket can result in improper fitment as described in PS374.



Please refer to PitStop PS562.

REAR CARGO AREA WATER INTRUSION

This article provides information regarding a concern with water intrusion in the cargo area on some 2017MY Niro (DE) vehicles. Remove the rear bumper cover by referring to the repair procedure chapter in the applicable Shop Manual on KGIS. Inspect the inner chassis for any missing body plugs **A** on the left and right sides of the vehicle. Replace missing body plugs and retest for any water intrusion leaks in the rear cargo area.



Sample: Missing plugs

WORD SCRAMBLE SOLUTION

Here is the solution to the Word Scramble puzzle on page 8.

NIRO IS ...
A SMARTER KIND OF CROSSOVER

- | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---------------|---------------|------------|---------------|---------------|--------------|-----------------|-----------|-------------|-------------|-----------------|-------------|-------------|------------|------------------|---------------|-----------------|--------------|-------------|-------------|-----------|---------------|
| 1. CONTESTANT | 2. COMPETITOR | 3. THERMISTOR | 4. RYANAIR | 5. TECHNICIAN | 6. QUALIFYING | 7. DETECTION | 8. ACCELERATION | 9. SENSOR | 10. BRACKET | 11. QUANTUM | 12. FLUORESCENT | 13. FILITAN | 14. HARNESS | 15. TESTER | 16. INTERMITTENT | 17. SIMULATOR | 18. COMPRESSION | 19. ANALYSIS | 20. BATTERY | 21. LICENSE | 22. KOREA | 23. INTRUSION |
|---------------|---------------|---------------|------------|---------------|---------------|--------------|-----------------|-----------|-------------|-------------|-----------------|-------------|-------------|------------|------------------|---------------|-----------------|--------------|-------------|-------------|-----------|---------------|