THE PROFESSIONAL PUBLICATION FOR KIA DEALERSHIP TECHNICIANS & SERVICE STAFF

Kia University

TECH TIMES

2018 • VOLUME 21, ISSUE 6

INSIDE THIS ISSUE:

NEW KGIS ENHANCEMENTS

KGIS will be rolling out an update by the end of this year. This change will be a new dynamic ETM that will be applied to both the ETM & DTC manuals.

The current format limits the viewable size of the ETM due to its static layout and this limits the functionality and produces a more difficult diagnosis procedure.

The new update will enable the ETM thumbnail to open in a new resizable pop-up window with the addition of "Previous" and "Next" buttons that records the technician's path to traverse forward and backward and facilitate the viewing of schematics when diagnosing different circuits.

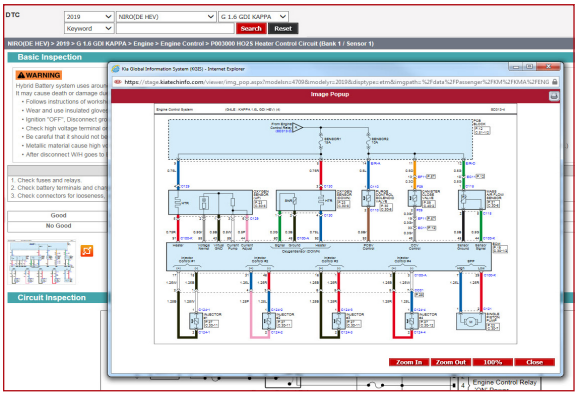
Other features that have already been applied to KGIS this year include the following:

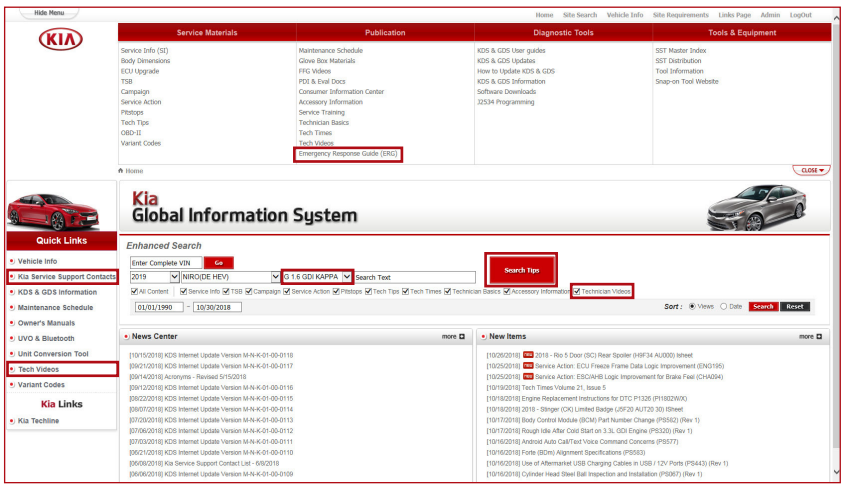
Synonym & Ignore word search; this feature searches different documents using synonym words (ex. AVN, NAV, Navigation). The ignore word feature will not search for words like all, at, the, of, etc.

Single engine auto populate, this feature will auto populate the vehicle engine automatically for all vehicles that are equipped with only one engine (ex. Rio w/1.6GDI, Cadenza w/3.3GDI, etc.)

Home page enhancements, the following changes have been applied to KGIS throughout the home page.

- Emergency Response Guide to Top Navigation
- Kia Service Support Contacts to Quick Links
- Search Tips
- Tech Videos to Quick Links & Enhanced Search





TECHLINE FAQs

Q	**What warranty coverage do customers have for vehicles included in PI1802/ PI1803?**	A	Kia is providing lifetime warranty coverage under Product Improvement Campaign PI1802/PI1803 to both new and used vehicle owners for engine long block assembly repairs needed due to excessive connecting rod bearing damage. There are coverage guidelines included for specific failures related to DTC P1326 and severe knocking or seized engines, however other engine failure modes may not be covered within these Product Improvement Campaign. Please review all applicable TSBs, Warranty and Parts Bulletins associated with this Product Improvement Campaign.
Q	**How do I move the wiper arms all the way up on a 2018 Stinger without them contacting the hood?**	A	The wipers must be placed into service mode. Hold the wiper stalk in the up position (mist position) for 2 seconds with the ignition on and the wiper arms will move up past the hood so you can service them. Please refer to PitStop PS299r3.
Q	**How can I monitor A/C information in a manual A/C system?**	A	All A/C information with the exception of the evaporator temperature sensor can be monitored in engine current data. The evaporator sensor can be tested manually.
Q	**How do I switch the TPMS sensor from high state to low?**	A	New TRW sensors come in High State. The TPMS Module will automatically switch these sensors to the proper state. When the vehicle information is entered, the system knows if the sensors should be high or low.

LATEST TECHNICAL SERVICE BULLETINS, SERVICE ACTIONS AND CAMPAIGNS

SST 061	Kia Smart Battery Tester v1.8 Replacement (All Models)
CHA 091	Steering Gear Yoke Plug and Assembly Replacement (Multiple Vehicles)
SC 168	Power Relay Assembly (PRA) or HV Main Relays Replacement (17-18MY DE HEV)
CHA 095	Front Strut Flange Nut Replacement (16MY JF)
CHA 084	Replacement of C-MDPS Motor and/or ECU (Multiple Models)
BOD 173r1	Outside Door Handle Cover Replacement (17-18MY DE P/HEV)
ENG 196	Service Action: 1.6GDI ECU Logic Improvement for DTC P0128 (SA 363) (19MY PS)
ENG 191r1	Service Action: 2.0T ECU Replacement for DTC P053F and/or P0087 (SA352) (18MY CK)

⚠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.

The information and specifications provided in this document were accurate at the time of development. Kia reserves the right to discontinue or change specifications or design at any time without notice and without incurring any obligation.

Published by Kia Motors America, Inc. and produced by Kia University.

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TECHLINE 2018-2019 HOLIDAY HOURS

Christmas	
Monday, Dec. 24	7 AM – 2 PM PST*
Tuesday, Dec. 25	Closed
Wed., Dec. 26 – Fri., Dec. 28	6 AM – 4 PM PST*
Saturday, Dec. 29	7 AM – 2 PM PST*
Monday, Dec. 31	6 AM – 4 PM PST*
New Years	
Tuesday, January 1	Closed

*Techline will be open during the holidays with limited staffing. Business hours will resume to normal on January 2nd, 2019. *Schedule subject to change without notice.*

THE TOOLS YOU NEED: THE NEW KDT COURSE

Kia supports its vehicles with cutting-edge tools, and their proper use is essential to properly diagnose vehicles so they can be fixed right the first time. To keep up with current technology and diagnostic methods, Kia University has developed a brand new course: Kia Diagnostic Tools (KDT), course number TEC-03-059-1. This course replaces the previous KDS and Diagnosing with GDS courses.

This all-new two-day instructor-led course delivers the information Kia Technicians need to properly service and repair Kia vehicles with the versatile and powerful Kia Diagnostic System (KDS) tablet, the GDS tester, and the Kia Smart Battery tester. Class time is devoted to learning how to use these tools, including in-class lecture and hands-on guided practice activities. Finally, Technicians complete a performance assessment to demonstrate they are ready to provide an exceptional service experience to our valued Kia vehicle owners.

Learners have to complete the online Intro to GDS VE Course & Test (TEC-01-023-1) and Intro to KDS Course & Test (TEC-01-051-1) prior to attending the KDT Course so they will be properly prepared to get right to work. After successfully completing this new course, these technicians will be able to:

- Identify components and features and explain the functions of the KDS tablet
- Identify components and features and explain the functions of the GDS laptop
- Locate and view Service Information and find TSBs using the KGIS Search function
- Connect KDS and/or GDS to a vehicle
- Check vehicles for DTCs and locate DTC diagnostic information
- View vehicle Current Data in both text and graph mode
- Perform Actuation Tests of vehicle components
- Perform Flight Recording function to capture vehicle data
- Locate and view Flight Record files for diagnosis
- Identify and perform updates for the KDS, VCI-II and TPMS Bluetooth module
- Explain Smart Battery Tester functions
- Review and analyze battery test results within the B2Q application

Be sure to check out KiaUniversity.com for more details and to enroll in the Kia Diagnostic Tools Course!

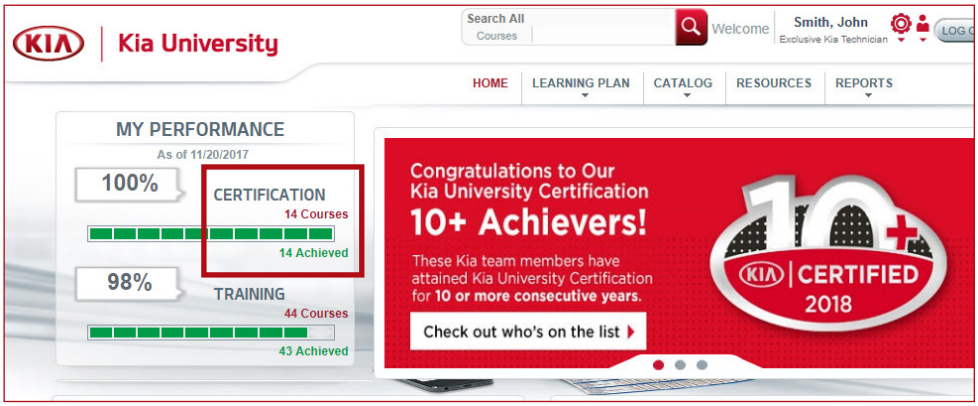
2018 ELITE CERTIFICATION

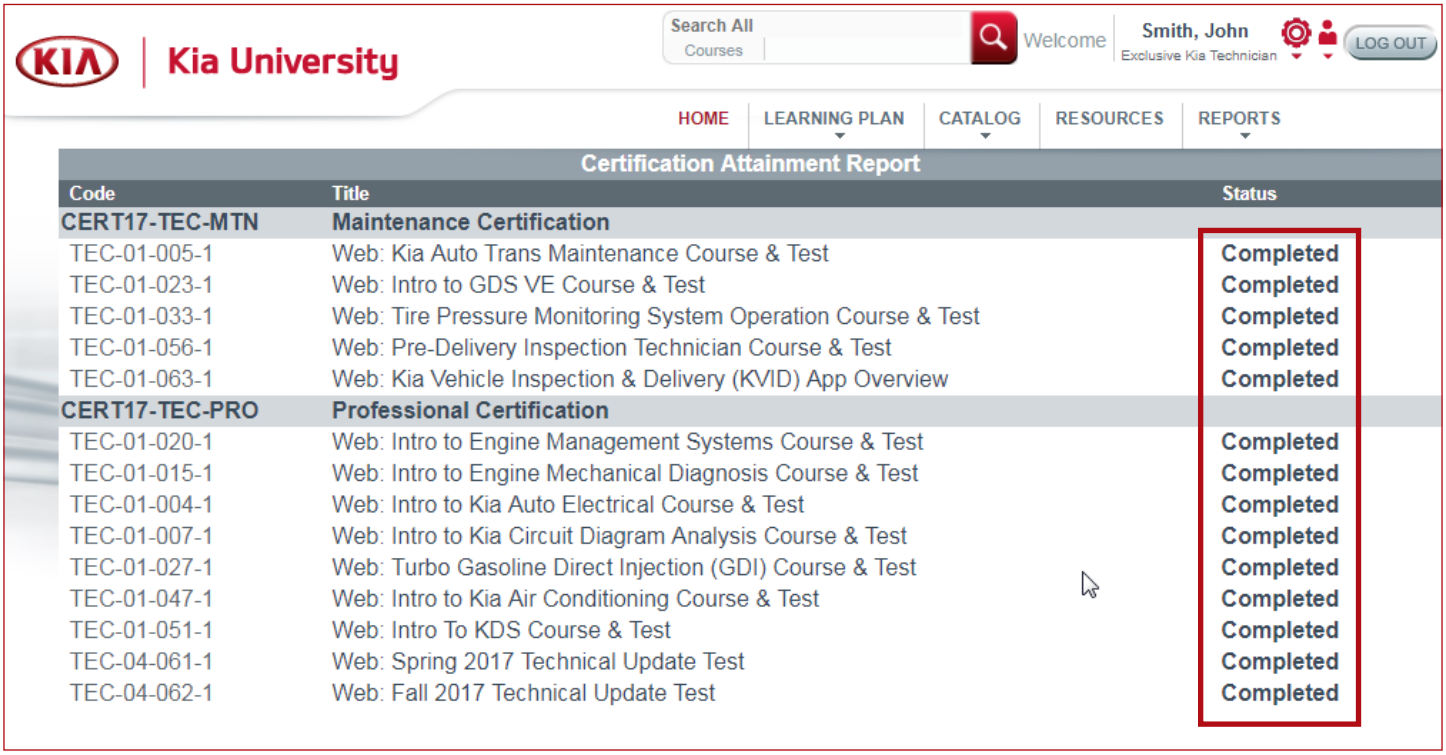
The days and months are quickly disappearing from the calendar, and soon the year will be over.

Get a jump on year-end and complete your training and certification requirements now before the 2018 calendar gets replaced! If you wait any longer, the classes you need may no longer be available.

As a reminder, you must complete all minimum training requirements for your primary job position by December 31, 2018 to receive rewards and recognition for your professional development.

To view your certification progress, visit the Kia Performance Center through KDealer.com. From the KDealer.com home page, select View All in the My Favorites section and then select the Kia Performance Center icon (KPC2). On the Kia Performance Center home page, select VIEW PROGRESS.





Certification Attainment Report

Code	Title	Status
CERT17-TEC-MTN	Maintenance Certification	
TEC-01-005-1	Web: Kia Auto Trans Maintenance Course & Test	Completed
TEC-01-023-1	Web: Intro to GDS VE Course & Test	Completed
TEC-01-033-1	Web: Tire Pressure Monitoring System Operation Course & Test	Completed
TEC-01-056-1	Web: Pre-Delivery Inspection Technician Course & Test	Completed
TEC-01-063-1	Web: Kia Vehicle Inspection & Delivery (KVID) App Overview	Completed
CERT17-TEC-PRO	Professional Certification	
TEC-01-020-1	Web: Intro to Engine Management Systems Course & Test	Completed
TEC-01-015-1	Web: Intro to Engine Mechanical Diagnosis Course & Test	Completed
TEC-01-004-1	Web: Intro to Kia Auto Electrical Course & Test	Completed
TEC-01-007-1	Web: Intro to Kia Circuit Diagram Analysis Course & Test	Completed
TEC-01-027-1	Web: Turbo Gasoline Direct Injection (GDI) Course & Test	Completed
TEC-01-047-1	Web: Intro to Kia Air Conditioning Course & Test	Completed
TEC-01-051-1	Web: Intro To KDS Course & Test	Completed
TEC-04-061-1	Web: Spring 2017 Technical Update Test	Completed
TEC-04-062-1	Web: Fall 2017 Technical Update Test	Completed

REPLACEMENT PARTS INFORMATION FOR MAHLE ACX 1299

Part Name	Part Number	Service Interval
RFID Filter	RTI360829580	As required
RFID Internal Sample Hose	RTI028805060	As required

The refrigerant identifier (RFID) on the ACX1299 includes a filter which must be monitored. This filter is located on the top control panel which is easily visible. If this filter appears pink, it indicates that oil has migrated into this device and the filter and/or sample hose assembly should be replaced as soon as possible. Continuing to perform refrigerant identifications under this condition could result in damaging this sensitive and costly device.

Oil entering the Refrigerant Identifier will damage the unit. Continuing to perform refrigerant identifications under this condition could result in damaging this sensitive and costly device.

Part Name	Part Number	Service Interval
Filter Service Kit	RTI360827390	After 68kg (150lbs) of refrigerant processed

The ACX1299 monitors the quantity of processed refrigerant. As the filter nears the end of its capacity, the ACX1299 will warn the operator that a replacement will be required soon. It is essential to order or stock a spare combo filter as soon as these warning messages appear.

When the life of the filter expires, the ACX1299 recovery/recycling will be disabled until a replacement is installed. This filter is accessed through the left side panel on the unit.

The red and blue A/C service hoses included with the ACX1299 are equipped with conical inline filters to prevent debris from entering the unit. If during a recovery/recycling process, the service time appears to be longer than normal, it is a good indication that the hose filters should be replaced.

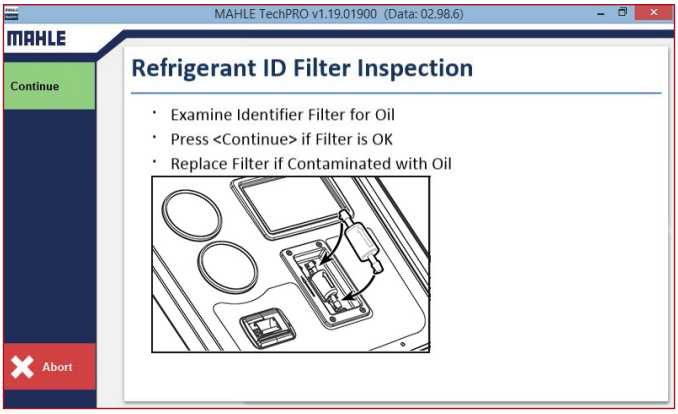
The filter service kit includes one (1) combo desiccant filter and four (4) inline hose filters.

Part Name	Part Number	Service Interval
Printer Paper	MTR095A	As required

1. Pull the printer lever until the cover is released
2. Insert new roll of paper as shown in the above image
3. Close the cover and tear off excess paper

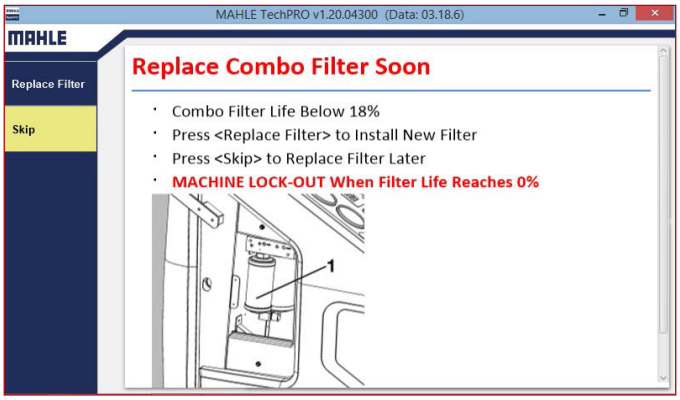
For all replacement parts, please contact Snap-on Business Solutions at (888) 542-1011.

Please refer to TSB SST054



RFID filter inspection instructions

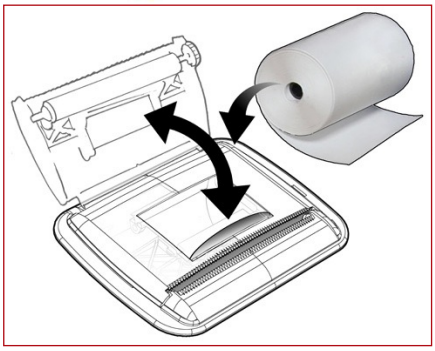
RFID filter



Filter service kit replacement instructions

Inline hose filters

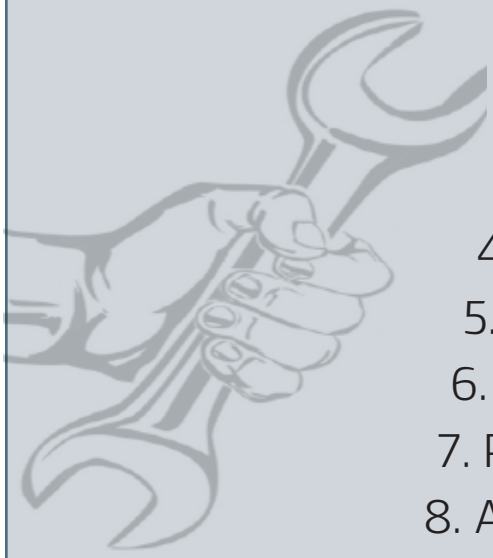
Combo desiccant filter



Printer paper replacement

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, then use the letters underlined in red to reveal the secret phrase in the box at the bottom of the page. Solution is on page 14.



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2. TIOICIEAFCN**T**R _____ P4
3. CRTNRE**U** _____ Page 14
4. IESPR**W** _____ Page 2
5. R**Y**EOMM _____ Page 12
6. EGNOONI**R**ITC _____ Page 7
7. RC**L**ADNAE _____ Page 4
8. ARNLTIA**C**BIO _____ Page 8
9. TANIENVM**L**ONER _____ P12
10. OENLAITPEC**X** _____ Page 7
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12. **H**VECIEL _____ Page 14
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14. CTRAI**E**SENS _____ Page 9
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16. **L**TMEINNGA _____ Page 9
17. N**U**TMDEO _____ Page 13
18. RTBEU**O**L _____ Page 8
19. LAP**E**P _____ Page 10
20. NRRRI**E**AFGTE _____ Page 5
21. SOESR**N** _____ Page 8
22. DNC**G**IOASTI _____ P3
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24. MBR**U**PE _____ Page 13
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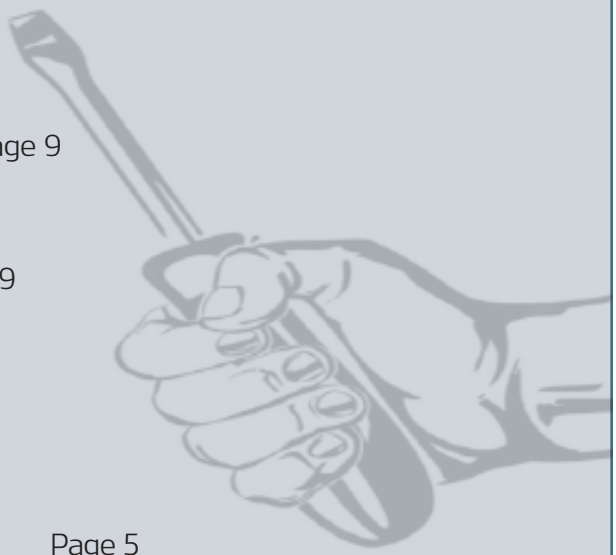

The 2019 K900 asks...

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KIA RECOGNITION OF EXCEPTIONAL PERSONNEL

Kia would like to recognize outstanding individuals who go above and beyond in ensuring service quality and customer satisfaction. Below is a small sample of those being recognized.

Tate Treacy – Central Region

▶ **Bryan Manzanarez** – Service Technician, Raymond Kia, IL

Thank you very much for completing all of your Kia University classroom and web-based training and congratulations on over four years of dedication and outstanding service to the Kia brand. Your abilities, coupled with your consistently positive attitude, are very much appreciated by your co-workers and by me.

Daniel Valdes – DPSM Southern Region

▶ **Luis Montalva** – Service Technician, Rick Case Kia, FL

Luis, I want to take a moment and recognize you for such outstanding work last Friday. We were very impressed with your understanding of the SC165 recall and professionalism in assisting the Kia engineer while on our visit. Thank you for make it a smooth and productive visit. I appreciate you sir.

Paul Gianmoena – DPSM Southwest Region

▶ **Shakelia Fletcher** – Service Technician, JT's Kia, SC

I just wanted to say congratulations for reaching Master status! Keep up the good work!

Matthew Partington – DPSM Central Region

▶ **Chris Weed** – Service Technician, Spitzer Kia, OH

Chris, I wanted to thank you for your efforts this summer and fall for carrying the weight in the shop and taking care of Kia customers at the dealership in the midst of being short-staffed. This is just a small thank you for a job well done!

Malcolm Hoff – DPSM Eastern Region

▶ **Carl Vanorden** – Service Technician, Vision Kia, NY

Thank you Carl for being loyal to the Kia Brand and an excellent team leader in the shop!

David Brisky – Techline Manager

▶ **Lee Camplin** – Service Technician, Universal Kia, TN

Lee, Techline would like to thank you for your efforts in diagnosing/repairing the Cadenza with the IGPM concern. Good Job and keep up the good work!!

Derek Dunning – DPSM Western Region

▶ **Steve Janson** – Service Technician, Horne Kia, AZ

Steve, Congratulations on being with Horne Kia for 10 years! You have seen the ascension of brand quality and performance.

David Brisky – Techline Manager

▶ **Michael Schwartz** – Service Technician, Cronin Kia, OH

Michael, Thank you for taking the technician survey and thank you for the feedback you provided. We are constantly trying to improve our service levels to the technicians and we are actually working towards implementing your suggestion in 2019. Thanks again and keep up the good work!!

FRONT RADAR CALIBRATION TIPS

Keep in mind that the front radar service and repair represents a dual path. On one path is the hardware and on the other path is the software.

Hardware (like the sensor and mounting brackets) must be correctly installed and aligned before calibration can occur. Software must be calibrated, and is always the second step of a radar system concern repair.

A proper repair procedure includes inspection, replacement, alignment and calibration. Minor collisions can create minor damage that isn't often noticed at first glance. Low speed impact at the front bumper might produce minor misalignment for the bumper reinforcement or radar mounting brackets behind the bumper cover. Just a couple of degrees of misalignment can prevent proper operation. This type of damage can occur while the vehicle is parked and bumped by another car or object, without the vehicle owner even being aware. Remember also that quick bumper paint repairs are a specialty service available in nearly every city. A quick scratch repair, either by polishing or by touch up paint can make the outside look great and provide no indication to you, the technician, that damage has occurred.

Always begin the inspection by looking beyond the bumper cover. Inspect:

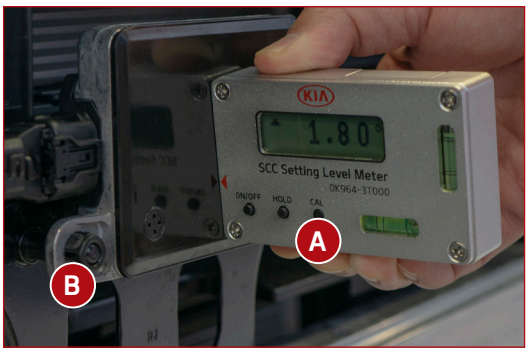
- The bumper reinforcement
- The bumper reinforcement mounts
- The license plate (a mangled license plate and a shiny clean or repainted bumper could be a clue)
- The license plate and mounting bracket to see if they are installed properly and not interfering with the radar
- Stickers, vehicle wraps, inner city bumper protectors blocking the radar
- Road grime build up blocking radar performance

Use KDS to check for Diagnostic Trouble Codes

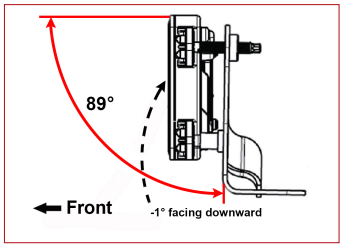
Use KGIS and follow the repair manual diagnostic procedures. Once you have inspected and ruled out the items listed above, ensure the hardware isn't at fault. Diagnose following KGIS.

If replacing the radar unit or mounting brackets, you must always align the radar unit. Use KGIS to obtain the alignment specification and the correct digital level to perform the repair.

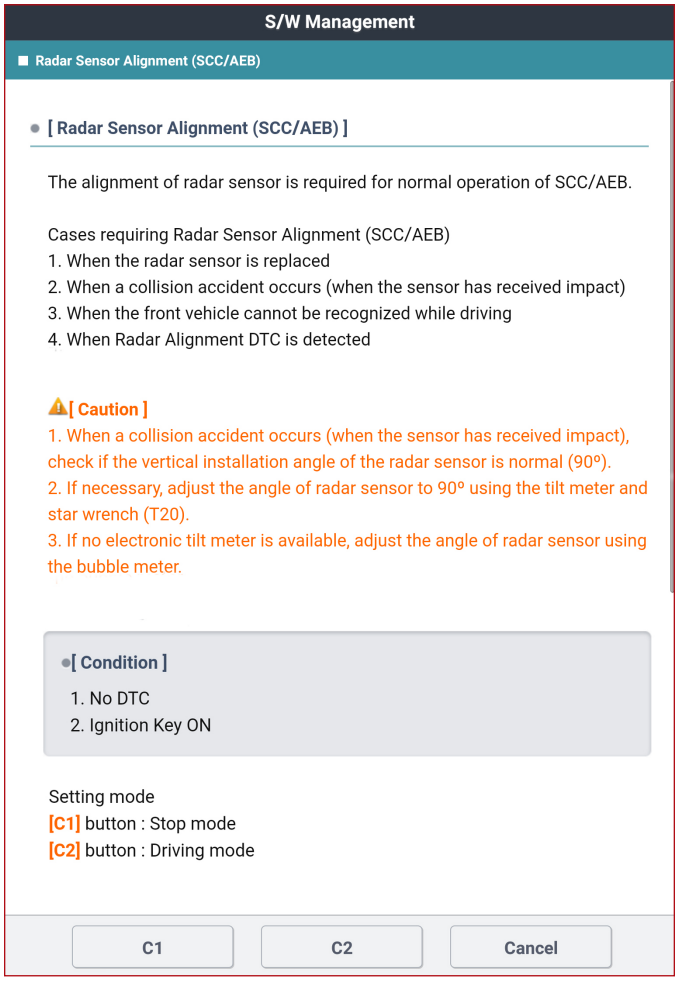
Once you have aligned the sensor or removed any obstruction, the software must be calibrated. KDS is always used for this step and, depending on the vehicle, a properly placed radar target (C1 Parking Mode) or a drive in the vehicle



A: SST 0K964-3T000
B: Vertical adjustment screw



Top of sensor should be tilted forward 1 degree



(C2 Running Mode) is also required.

If using the radar target and KDS, follow the repair manual instruction to determine vehicle center line and properly place the target the correct distance from the front of the vehicle.

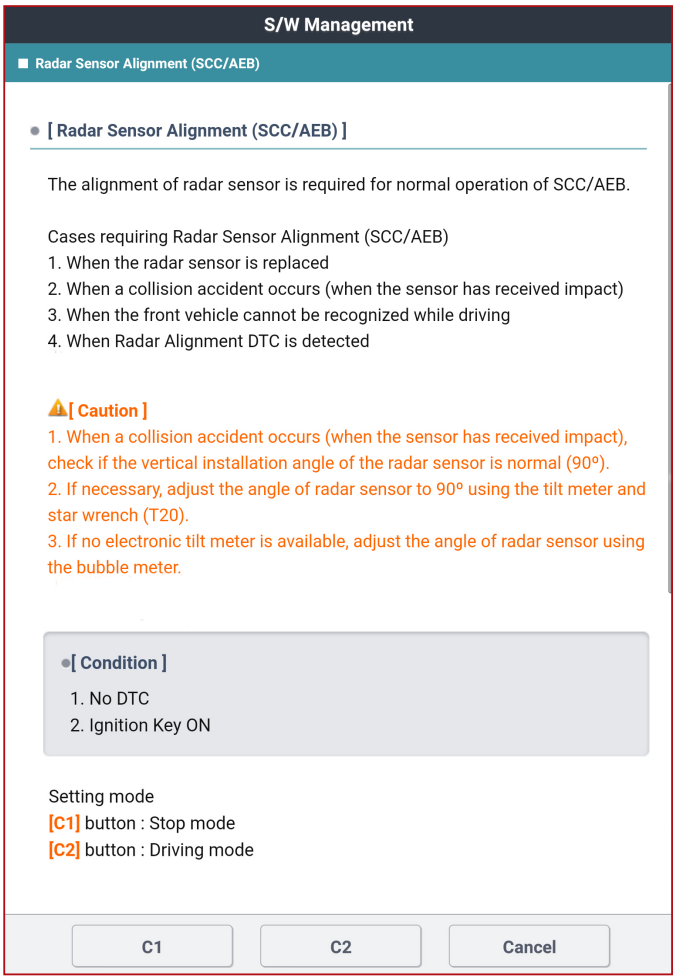
If driving the vehicle and using KDS, ensure KDS is active and the target road requirement is met during the drive. A few recently released vehicles like the Stinger (CK) and K900 (RJ) only use a road test to calibrate the software. This can be a challenge but there are two important bits from the data list that can make completing the calibration procedure more efficient.

After choosing Test Mode C2 Running Mode using KDS.

Open the data list and look at Field Alignment Result and Field Align Progress. Status must read "BUSY". If the radar

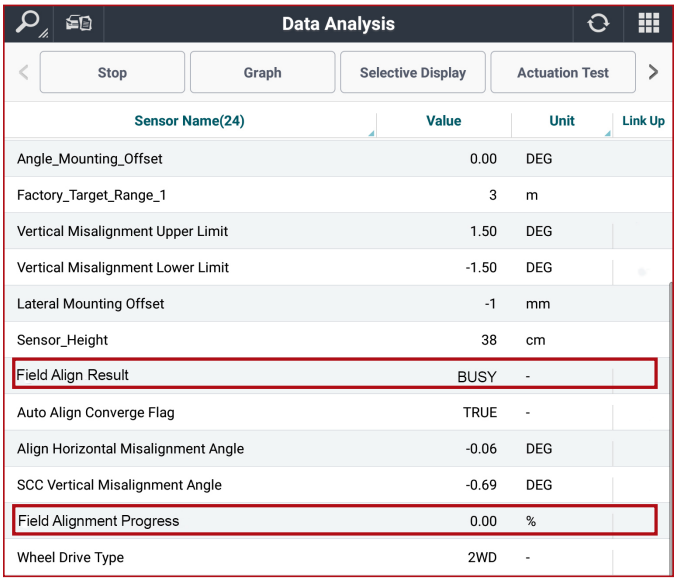
continued

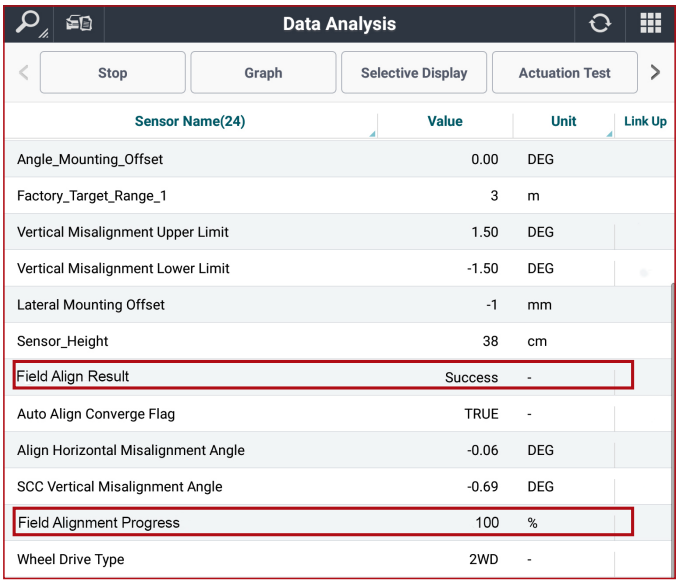
FRONT RADAR CALIBRATION TIPS (CONTINUED)



cannot activate the calibration with KDS, Field Alignment Result will not read "BUSY" and a road test is a waste of your valuable time. Once you have confirmed the data list shows BUSY, now test drive the vehicle.

Have an assistant ride with you to monitor KDS (never use KDS yourself while driving). When the radar recognizes a highway barrier, such as a guard rail or fencing, the percentage of





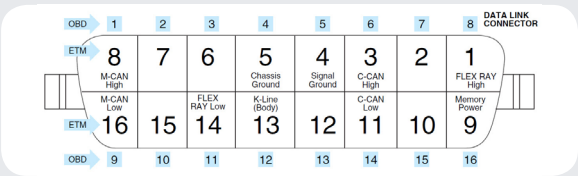
completion will increase. Find a length of road where this percentage increases and make note of that location. You can loop around and drive past that area as many times as needed to complete the calibration. Calibration is cumulative; the percentage of completion must be 100% before turning off the ignition. If the ignition is cycled, the percentage of completion starts over at zero percent.

When Field Alignment Progress reaches 100%, the Smart Cruise Control Disabled message will turn off in the instrument cluster. When this occurs, calibration is complete and you are done.

TECH TIP: CAN BUS RESISTANCE TESTING

Symptom: CAN bus resistance testing at the DLC

Repair: CAN bus resistance testing at the DLC is done with the battery disconnected so no active voltage interferes with the resistance test. The pins enter the cavity from the rear and the CAN lines occupy cavities 3 and 11. Incorrect resistance testing can lead to a poor diagnosis when testing from the front of the DLC where the CAN lines can be misread as 6 and 14 as found when looking from the front of the connector where the scan tool connects. **Note:** Tech Tips are a supplement to the diagnosis procedure that is described in the service manual.



Please refer to KGIS for model specific connector information. Please refer to TSB ELE133.

APPLE CARPLAY™ UPDATES, BLUETOOTH CONCERNS: iOS 12.X VERSIONS

This article provides information regarding the new Apple CarPlay functionality on iOS 12.X as well as recommendations relating to possible *Bluetooth®* connectivity concerns when using some iPhones with iOS 12.X (iOS 12.0.0, 12.0.1, 12.1, etc.) on all 2017-2019MY vehicles except some 2018MY Rio (SC) vehicles not equipped with *Bluetooth®*.

New to iOS 12:

Apple CarPlay now supports Google Maps and Waze

- Ensure the iPhone is up to date with iOS 12 or greater
- Ensure the app (Google Maps or Waze) is updated to the latest version
- Be sure to check all screens within Apple CarPlay by swiping left on the Apple CarPlay home screen as the app may not appear on the first page (figs. 1 & 2)

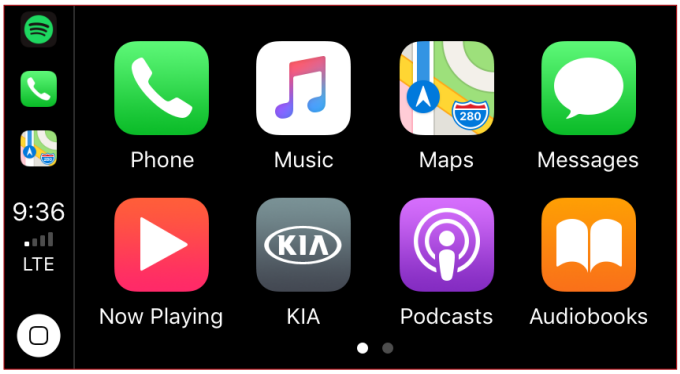


Fig. 1. Apple CarPlay initial home screen

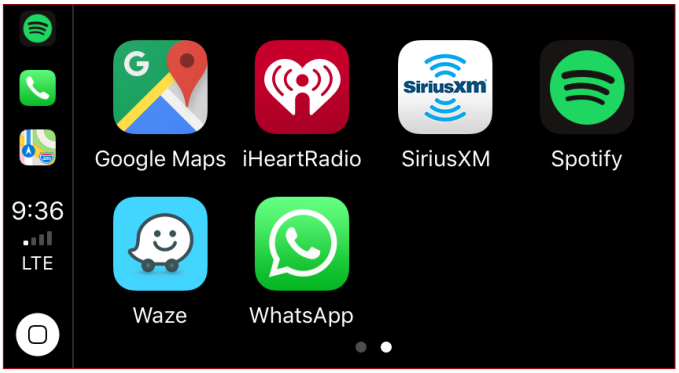
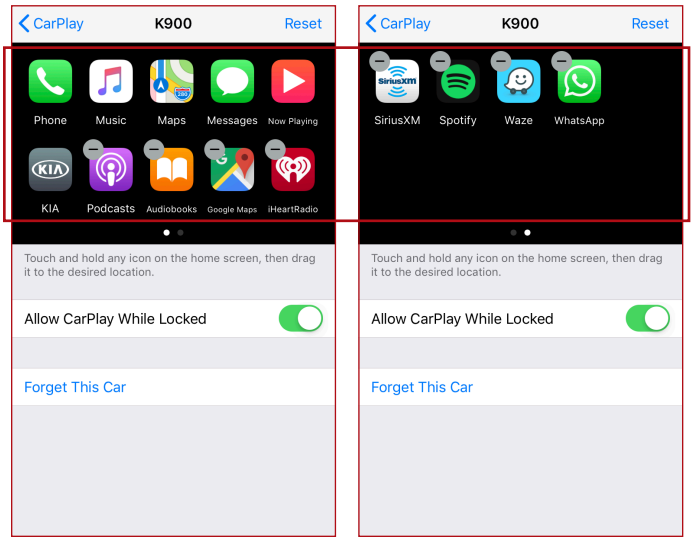


Fig. 2. Apple CarPlay secondary home screen

Model	Measurement
Forte (YDm)	2017-2018
Forte (BDm)	2019 ~
Stinger (CK)	2018 ~
Niro (DE P/HEV)	2017 ~
Optima (JF, JFa)	2016 ~
Optima Hybrid (JF P/HEV)	2017 ~
K900 (KH)	2017-2018
Soul (PS)	2016-2019
Soul EV (PSEV)	2017-2019
Sportage (QL)	2017 ~
Rio (UB, SC)	2017 ~
Sorento (UMa)	2017 ~
Cadenza (YG)	2017 ~
Sedona (YP)	2017 ~

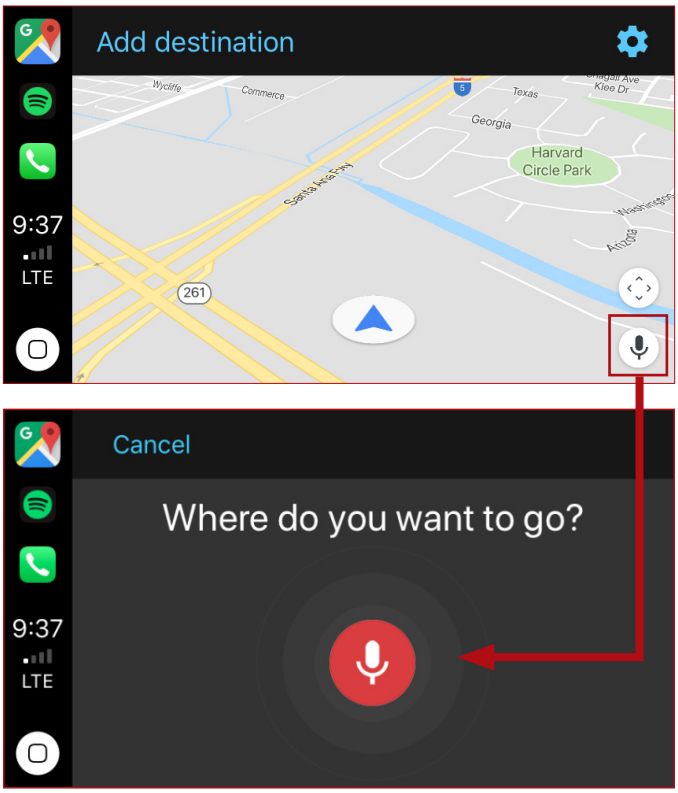
To customize the Apple CarPlay home screen:

1. Open the Settings menu on the iPhone
2. Select General → CarPlay → "vehicle" (see below)
3. Touch and hold any icon on the screen, then drag to the desired location.



Note: Siri does not integrate into Google Maps or Waze. Pressing the Voice Recognition hard key while in Apple CarPlay to give navigation commands will only work with Apple Maps. In order to use Voice Recognition on Google Maps and Waze, use the on screen Microphone button.

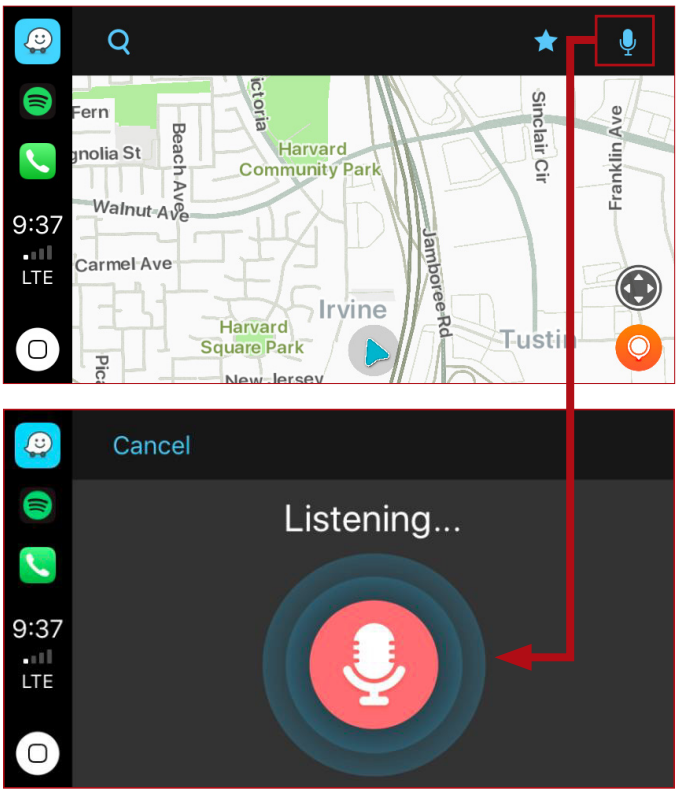
Google Maps:



Continued

APPLE CARPLAY™ UPDATES, BLUETOOTH CONCERNS: iOS 12.X VERSIONS (CONTINUED)

Waze:



In addition to the improvements to Apple CarPlay mentioned in the previous section, the following concerns have been noted with iOS 12:

- *Bluetooth*® will not connect
- *Bluetooth*® disconnecting and reconnecting
- *Bluetooth*® connection drops frequently
- Difficult to pair iPhone
- Interruptions in functionality when using Siri
- The phone no longer shows the *Bluetooth*® connected icon

The following suggestions may help to improve some of the above concerns.

Bluetooth disconnecting and reconnecting

- Reset Bluetooth on the phone:
  1. On the iPhone, go to Settings → Bluetooth → turn off the switch next to "Bluetooth".
  2. Restart the phone.
  3. Turn Bluetooth on again.
- Reset the Bluetooth connection/perform a fresh pairing:
  1. Enter Bluetooth settings on the phone: Settings → Bluetooth.
  2. Find the vehicle in the list of "My Devices" and select the icon ⓘ.
  3. Select "Forget This Device".
  4. Delete the iPhone from the vehicle head unit and then pair the iPhone to the vehicle.
- Reset Network settings on the iOS Device:

NOTE: This will reset all network settings and may delete any saved passwords for Wi-Fi networks.

1. Settings → General → Reset → Tap on "Reset Network Settings"

- Perform a "Hard Reset" of your iOS device:

NOTE: A hard reset is a hardware level restart of your device while a normal restart is a software level restart. This may reset the Bluetooth hardware in your device potentially fixing the issue.

— For iPhone X, XS, XR, and the 8 and 8 Plus

1. Tap the volume up button on the left side of the iPhone.
2. Tap the volume down button the left side of the iPhone.
3. Press and hold the Power button on the right side of the phone until you see the Apple logo, then release.
4. If you see the "Slide to Power Off" option, keep holding down the side button until the Apple logo appears on your screen.

— For iPhone 7 and iPhone 7 Plus

1. Press and hold the volume down button and the power button simultaneously until you see the Apple Logo.

— For iPhone 6s and earlier

1. Press and hold both the home and power button simultaneously until you see the apple logo.

The phone no longer shows the Bluetooth connected icon

- After the iOS 12 update, the bluetooth icon may no longer appear at the top of the phone screen. Bluetooth may be active and paired, however, this icon is no longer used to confirm bluetooth status. In order to verify bluetooth connection status:
  1. Select Settings → Bluetooth → locate the vehicle name under "My Devices" and confirm the connection status.

In case all methods above fail, please also refer to the following Apple Support documents:

— Potential sources of Wi-Fi and Bluetooth interference: https://support.apple.com/en-us/HT201542

— If your iPhone, iPad, or iPod doesn't connect to or work in your car: https://support.apple.com/en-us/HT203412

Please refer to PitStop PS585.

EPA §609 TRAINING CERTIFICATION AND KIA DEALER TECHNICIANS

Have you ever heard the term "Section 609" when discussing training related to vehicle Air Conditioning (A/C) Servicing?

Section 609 provides that any person who repairs or services motor vehicle air conditioning (A/C) systems must be properly trained and certified under section 609 of the Clean Air Act by an Environmental Protection Agency (EPA)-approved program.

This means that all Kia dealer technicians servicing A/C systems must be certified to handle R134a used on some current Kia models and also to handle the newest R1234yf vehicle A/C refrigerant first introduced in the 2017 Sportage. As a matter of fact, R1234yf is set to completely replace R134a by the end of year 2018 on all vehicles sold in the USA.

The EPA-approved technician training and certification programs provide education on the proper use of A/C servicing equipment, the applicable regulatory requirements, the importance of refrigerant recovery, as well as the effects of improper handling of refrigerants on the ozone layer and climate. To be certified, Kia technicians must be trained by an EPA-approved program and pass a test demonstrating their knowledge in these areas. While there are several companies and educational programs approved by the EPA to train and certify technicians under section 609 of the Clean Air Act, Kia University recommends taking the training program from ASE (ASE.com) or MACS (macsw.org). This program can be found by visiting the ASE website at: www.asecampus.com

The ASE Section 609 Training Program has been completely updated to reflect new EPA requirements including information on R1234yf.

To earn certification, technicians must review the training material and then pass a test demonstrating knowledge of that material.

The Refrigerant Recovery Program was designed to meet the training and testing requirements of Section 609 of the Clean Air Act, as defined by the EPA.

Having ASE A7 Heating and Air Conditioning certification does NOT satisfy the EPA Section 609 requirements for refrigerant recovery and recycling.

The ASE A7 Heating and Air Conditioning certification test was designed to test a broader range of knowledge. Therefore, it does not provide what the EPA requires for "certification" in refrigerant recovery and recycling.

Failure to comply with the Section 609 Certification requirements could cost you and your dealer as much as $27,500 per day, per violation. Dealer technicians who violate the provisions of the Clean Air Act may be fined, lose their certification, and may be required to appear in Federal court.

MEMORY SAVER BY E-ZRED

E-ZRED now has an easy and inexpensive solution for vehicles that lose memory settings when the battery is disconnected. With the MS4000 Memory Saver (pictured below), power is supplied to electronics in the vehicles simply by connecting the unit to the OBDII DLC. Now you can save time by not having to write down and reprogram settings, and the chances of errors are eliminated!

Some of the features and benefits of the E-ZRED Memory Saver include:

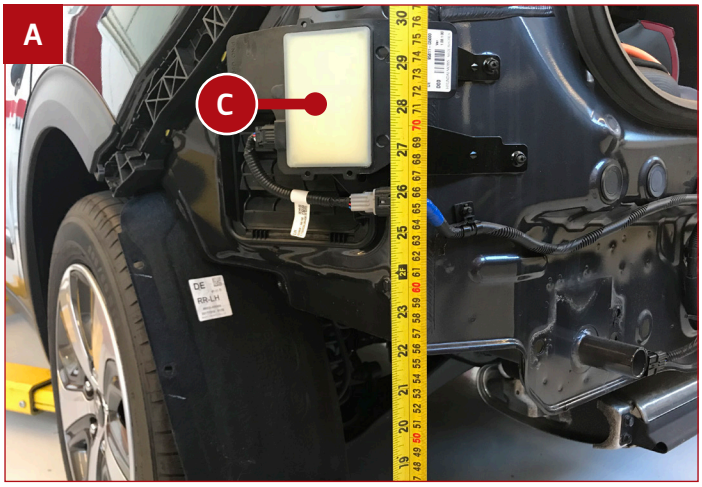
- Direct wired OBDII Connector plug directly into the vehicles OBDII DLC
- 12 volt, 4.5 amp hour sealed lead acid battery included inside unit
- Protected by a 4 amp circuit breaker
- Amber/Green LED indicates connection and internal battery status.
- Power on / power off switch

To order, please visit kiaspecialtools.com or call (888)-542-1011. Part Number: EZRMS4000, Dealer Price: $95.00.

HOV LANE DECAL PLACEMENT

This article provides information regarding placement of HOV Decals for 2018MY and newer Niro and Optima Plug-In Electric Vehicles. HOV Decals contain a metallic film and can block the radar signals from the BSD sensors. Improper placement of HOV decals on the rear bumper can result in the BSD system not operating as designed and possibly cause DTCs. To avoid this concern, use a tape measure and make sure that the top of the HOV stickers are placed below the specified measurement (when measuring from the ground up) as shown below.

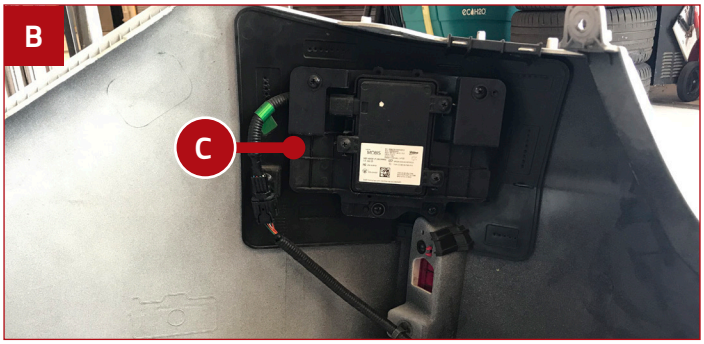
Model	Figure	Measurement
Niro (DE PHEV)	A	25 inches
Optima Plug-in Hybrid (JF PHEV)	B	27 inches



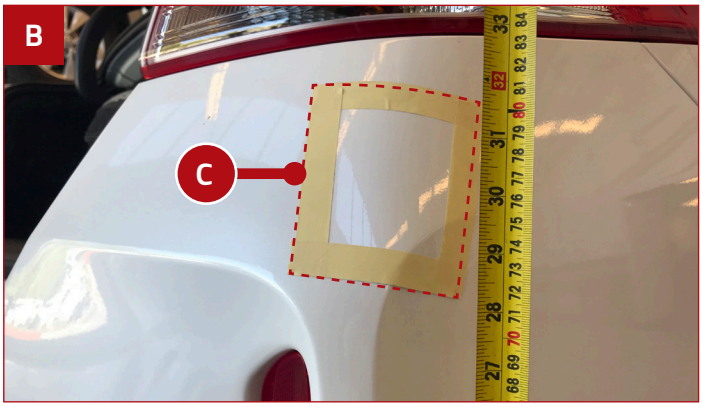
Bumper Off (BCD sensor exposed)

Correct Placement of Decal (below 25")

Incorrect Placement of Decal (above 25")



Bumper Off (BSD sensor (C) exposed)
(NOTE: The sensor is mounted on the bumper)



Please refer to PitStop PS571

<u>Correct</u> Placement of Decal (below 27")
(NOTE: Taped area is the location of the sensor)

REMOTE START VALET MODE

This article provides information regarding the Remote Start system with Valet Mode. Current remote start systems are equipped with a valet mode to prevent accidental starting when vehicle is being serviced. This valet mode can be identified when an attempt is made to remotely start the vehicle and remote start does not occur but the horn honks three (3) times. If this occurs, perform the following:

To Exit Valet Mode/Service Mode (Return the system to its normal operating mode):

1) Push the vehicle start button (A) two (2) times to turn the vehicle ignition on.
2) Press and hold the vehicle brake.
3) Press and hold the remote button (B) for two (2) seconds.
4) The vehicle's exterior lights will flash and/or horn will sound **twice**.
5) Valet mode should now be disengaged.

To Engage Valet Mode/Service Mode:

1) Push the vehicle start button (A) two (2) times to turn the vehicle ignition on.
2) Press and hold the vehicle brake.
3) Press and hold the remote button (B) for two (2) seconds.
4) The vehicle's exterior lights will flash and/or horn will sound **once**.
5) Valet mode should now be engaged.

Models	Model Year
Soul (PS)	2014-2019
Optima (QF)	2014-2015
Optima (JFa)	2016-
Sportage (SL)	2014-2016
Sportage (QL)	2017-
Sedona (YP)	2014-
Sorento (UMa)	2016-
Rio (UB)	2015-2017
Forte (YD / YDm)	2016-2018
Forte (BDm)	2019-
Stinger (CK)	2018-

⚠WARNING

Make sure to always engage the Valet Mode before working in the engine compartment area. Failure to do so may cause unintentional activation of the remote-start system, increasing the risk of personal injury.

Please refer to PitStop PS586.

WORD SCRAMBLE SOLUTION

Here is the solution to the Word Scramble puzzle on page 6.

...2K2A 00EY ƐTOS 3HT

CHALLENGE THE LUXURY YOU KNOW

1. THOLEOBUT . . . . . BLUETOOTH
2. TIOICIEAFCNTR . . . . . CERTIFICATION
3. CRTNREU . . . . . CURRENT
4. IESPRW . . . . . WIPERS
5. RYEOMM . . . . . MEMORT
6. EGNOONIRITC . . . . . RECOGNITION
7. RCLADNAE . . . . . CALENDAR
8. ARNLTIACBIO . . . . . CALIBRATION
9. TANIENVMLONER . . . ENVIRONMENTAL
10. OENLAITPECX . . . . . EXCEPTIONAL
11. IAYOLDH . . . . . HOLIDAY
12. HVECIEL . . . . . VEHICLE
13. IGKS . . . . . KGIS
14. CTRAIESENS . . . . . RESISTANCE
15. ODME . . . . . MODE
16. LTMEINNGA . . . . . ALIGNMENT
17. NUTMDEO . . . . . MOUNTED
18. RTBEUOL . . . . . TROUBLE
19. LAPEP . . . . . APPLE
20. NRRRIEAFGTE . . . . . REFRIGERANT
21. SOESRN . . . . . SENSOR
22. DNCGIOASTI . . . . . DIAGNOSTIC
23. CIYNMDA . . . . . DYNAMIC
24. MBRUPE . . . . . BUMPER
25. PMICAGNA . . . . . CAMPAIGN