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|--|---|
| GROUP General | MODEL Multiple Models (See table below) |
| NUMBER 051 (Rev 3, 09/05/14) | DATE December 2011 |

TECHNICAL SERVICE BULLETIN

SUBJECT: NAVIGATION MAP UPGRADE – CUSTOMER RETAIL

★ NOTICE

This bulletin has been revised to include additional information. New/revised sections of this bulletin are indicated by a black bar in the margin area.

This bulletin provides information for certain Kia models equipped with a factory Kia navigation system. Kia owners have the option to purchase a map upgrade directly from MnSoft (a Kia approved supplier) and can perform the upgrade themselves or have the dealer perform the upgrade in which case additional labor charges will apply. **Notice: Other services can be performed on the vehicle while the map system update is in progress; suggested labor time is 0.3 hours.** For customers wanting to perform their own upgrade, USB sticks or SD Cards (depending on year/model) are available for purchase through www.kdealer.com for dealers and www.mapnsoft.com for customers. Refer to the table below for detailed application information.

NOTE: Map upgrade should only be offered to customers that have owned their vehicle for at least 18 months.

Navigation Map Upgrade Software application chart

| Model | 2009 MY | 2010 MY | 2011 MY | 2012 MY | 2013 MY | 2014 MY |
|--------------|---------|---------|---------|---------|---------|---------|
| Borrego | 8U09* | N/A | N/A | N/A | N/A | N/A |
| Cadenza | N/A | N/A | N/A | N/A | N/A | 8S11** |
| Forte 2-Door | N/A | N/A | 8U06* | | | 8S12** |
| Forte 4-Door | N/A | N/A | 8U07 | | | 8S13** |
| Forte 5-Door | N/A | N/A | 8U08* | | | 8S14** |
| Optima | 8U04* | | 8U05* | | | 8S15** |
| Optima HEV | N/A | N/A | N/A | 8U05* | 8U05H* | 8S16** |
| Rio | N/A | N/A | 8U05* | | | |
| Rondo | 8U09* | | N/A | N/A | N/A | N/A |
| Sedona | 8U09* | | | | | |
| Sorento | N/A | 8U04* | | | | 8S17** |
| Soul | N/A | N/A | 8U05* | | | TBA*** |
| Sportage | 8U09* | | 8U05* | | | 8S18** |

*USB Stick (USB stick part numbers contain a "U" (i.e. 8U06))

**SD Card (SD Card part numbers contain an "S" (i.e. 8S18))

***To be announced

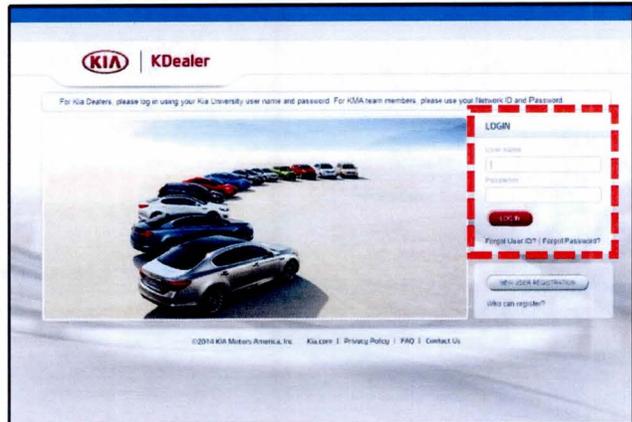
NOTE: Seven USB Sticks (P/Ns 8U04, 8U05, 8U05H, 8U06, 8U07, 8U08 and 8U09) will be shipped to all dealers. SD cards (P/Ns 8S11~18) must be ordered through www.kdealer.com or by calling (888)757-0010.

File Under: General

Circulate To: General Manager Service Manager Parts Manager
 Service Advisor(s) Technician(s) Body Shop Manager Fleet Repair

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- 1. Log onto www.kdealer.com



- 2. Click on **View All.**



- 3. Select **Map Update** and then click on 'Proceed' in the pop-up screen. The system will open the Kia Map Update website.



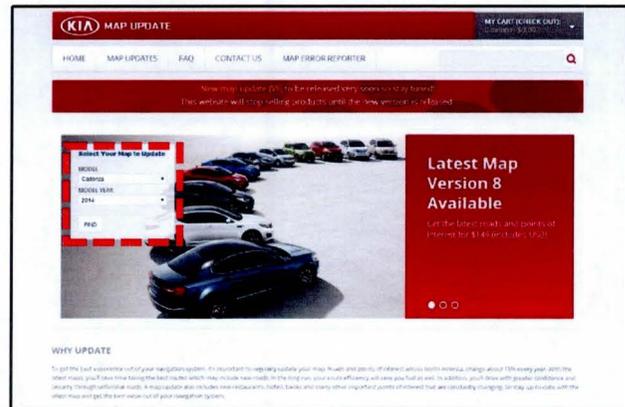
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NAVIGATION MAP UPGRADE – CUSTOMER RETAIL

4. Once on the Kia Map Update Home Page, select the map to update from the menu and follow the on-screen instructions to complete the purchase.

* NOTICE

Alternatively, a map update order can be placed by calling MnSoft Support at (888)757-0010.



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Only load map version designated for a particular model.

*** NOTICE**

Map screens shown in this bulletin are for demonstrative purposes only, and may vary depending on model. Screen instructions may vary depending on model. Always carefully follow the screen prompts.

Record customer's radio presets before performing map upgrade; radio presets will be erased during upgrade.

*** NOTICE**

DO NOT start and leave vehicle idling unattended during Map Software upgrade, instead use a battery charger (see notice below) or similar device during upgrade procedure.

Upgrade Information Table for USB Sticks

| Part# | MY | Model | Generation | Time to update | Map version after update |
|-------|-----------|------------------------|------------|----------------|--------------------------|
| 8U04 | 2009-2010 | Optima (MG) | Gen 1.5 | 95 min | 07.09.02 |
| | 2010-2013 | Sorento (XMa) | | | |
| 8U05 | 2011-2013 | Optima (QF/TF) | Gen 2.0 | 55 min | 07.09.02 |
| | 2012 | Optima Hybrid (TF HEV) | | | |
| | 2011-2013 | Soul (AM) | | | |
| | 2011-2013 | Sportage (SL) | | | |
| | 2011-2014 | Rio (UB) | | | |
| 8U05H | 2013 | Optima Hybrid (TF HEV) | Gen 2.0 | 55 min | 07.09.02 |
| 8U06 | 2011-2013 | Forte Koupe (TD) | Gen 1.5 | 95 min | 07.09.02 |
| 8U07 | 2011-2013 | Forte (TD) 4D | Gen 1.5 | 95 min | 07.09.02 |
| 8U08 | 2011-2013 | Forte (TD) 5D | Gen 1.5 | 95 min | 07.09.02 |
| 8U09 | 2009 | Borrego (HM) | Gen 1.0 | 150 min | 07.09.02 |
| | 2009-2010 | Rondo (UN) | | | |
| | 2009-2012 | Sedona (VQ) | | | |
| | 2009-2010 | Sportage (KM) | | | |

SUBJECT:

NAVIGATION MAP UPGRADE – CUSTOMER RETAIL

Service Procedure for USB Sticks:

1. In order to complete the vehicle map upgrade, the vehicle audio unit must be powered ON in the “engine OFF, ignition ON mode.” The complete MAP update can take up to 150 minutes or more. Some models may take less or more time to complete the upgrade. Please refer to the table on Page 4 for approximate upgrade times.

*** NOTICE**

It is recommended that the Midtronics GR8-1299 Diagnostic Battery Charger system be used in “Manual Mode” while performing the upgrade procedure.



Midtronics GR8-1299 Diagnostic Battery Charger

2. Turn the head unit ON and record the customer’s radio presets. Then, press **Setup**.



3. Touch **Main** on the screen.



Screens above and map versions displayed are only for demonstration purposes and may vary depending on model.

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4. Touch **System Info** on the screen.
NOTE: Once in the 'System Info' screen, make sure current installed map version is an "old" version.



5. From the materials provided to the dealer, select the appropriate USB Stick P/N by referring to the table on Page 4. Insert memory stick into USB port and select **Map Upgrade** button on the touch screen. If using an SD Card proceed to page 9.

*** NOTICE**

Only load map version designated for the appropriate model.

One set of New USB sticks (P/Ns 8U04, 8U05, 8U05H, 8U06, 8U07, 8U08 and 8U09) with the map update are being provided to all dealers. The map updates are also accessible via:

www.kdealer.com



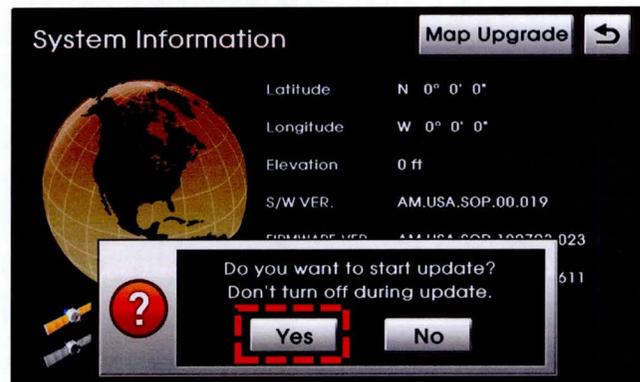
6. Touch the **Map Upgrade** button. The Device ID on this screen will be used when getting the Authentication Code needed to install the map update. (After the update, the Map Version will be updated to 7.09.02).



SUBJECT:

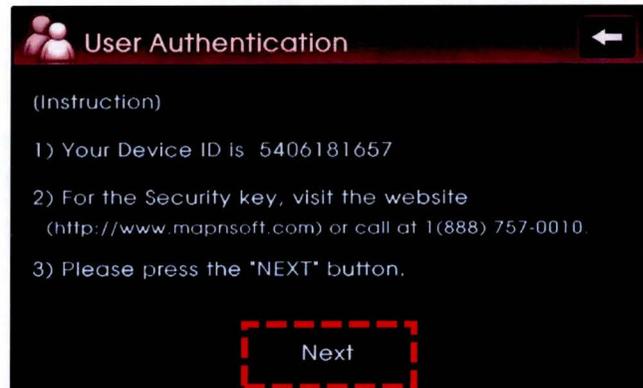
NAVIGATION MAP UPGRADE – CUSTOMER RETAIL

7. Touch **Yes** on the screen.



8. If you don't have an Authentication code, write down your Device ID and access the MnSoft website through www.kdealer.com or call (888)757-0010 to obtain one.

If you have an Authentication code, touch **Next** on the screen.



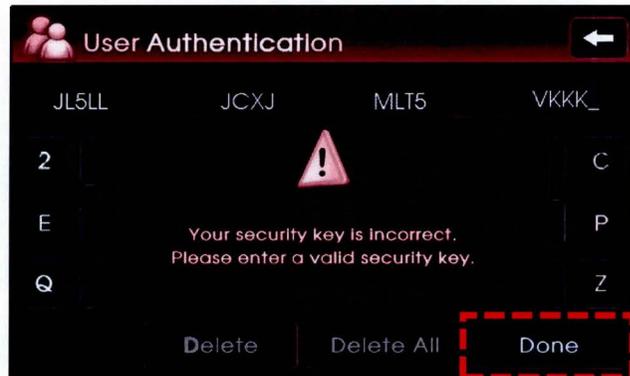
9. Enter the Authentication code. **NOTE: An order is required to obtain an Authorization Code.**



- If the Authentication code is correct, The **Done** button will become highlighted on the screen. Touch **Done** on the screen to continue.

*** NOTICE**

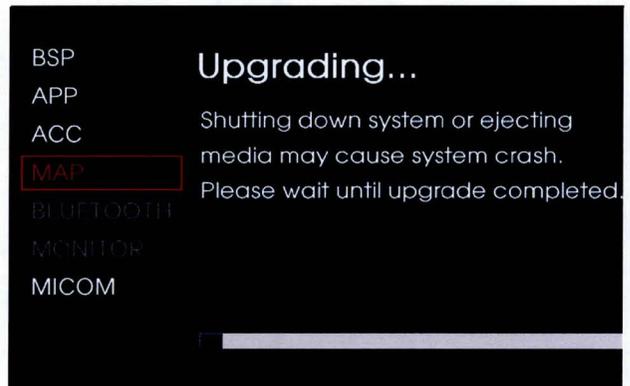
If the Authentication code is incorrect, call 1-888-757-0010. Have the Order #, Device ID from Step 8, and the USB stick number being used ready.



- The system will restart and the map upgrade will begin automatically. Refer to the table on Page 4 for approximate upgrade times.

*** NOTICE**

Do NOT turn off the engine or eject USB stick during the update.



- When the update is complete, the system will restart.

*** NOTICE**

A blank/black screen may appear after the update is complete. If the system does not restart automatically, press the power button to restart the system.



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NAVIGATION MAP UPGRADE – CUSTOMER RETAIL

13. Press the **SETUP > Main > System Info** to verify the upgrade software version number matches the information in the table below:

| Upgrade Software Version |
|--------------------------|
| 07.09.02 |



14. Restore the customer's radio presets as recorded on step 2.

Upgrade Information Table for SD Cards

| Part# | MY | Model | Generation | Time to update | Map version after update |
|-------|------|------------------------|------------|----------------|--------------------------|
| 8S11 | 2014 | Cadenza (VG) | Gen 3.0 | 20 min | 07.43.43.004 |
| 8S12 | 2014 | Forte Koupe (YD) | Gen 3.0 | 20 min | 07.43.43.004 |
| 8S13 | 2014 | Forte (YD) 4D | Gen 3.0 | 20 min | 07.43.43.004 |
| 8S14 | 2014 | Forte (YD) 5D | Gen 3.0 | 20 min | 07.43.43.004 |
| 8S15 | 2014 | Optima (QF/TF) | Gen 3.0 | 20 min | 07.43.43.004 |
| 8S16 | 2014 | Optima Hybrid (TF HEV) | Gen 3.0 | 20 min | 07.43.43.004 |
| 8S17 | 2014 | Sorento (XMa) | Gen 3.0 | 20 min | 07.43.43.004 |
| 8S18 | 2014 | Sportage (SL) | Gen 3.0 | 20 min | 07.43.43.004 |

Service Procedure for SD Cards:

- In order to complete the vehicle map upgrade, the vehicle audio unit must be powered ON in the "engine OFF, ignition ON mode." The complete MAP update can take up to 20 minutes or more.

★ NOTICE

It is recommended that the Midtronics GR8-1299 Diagnostic Battery Charger system be used in "Manual Mode" while performing the upgrade procedure.



Midtronics GR8-1299 Diagnostic Battery Charger

- Record the customer's radio presets.

3. Remove the original SD Card from the slot and insert the update SD Card. The original SD Card will not be reused and should be returned to the customer.

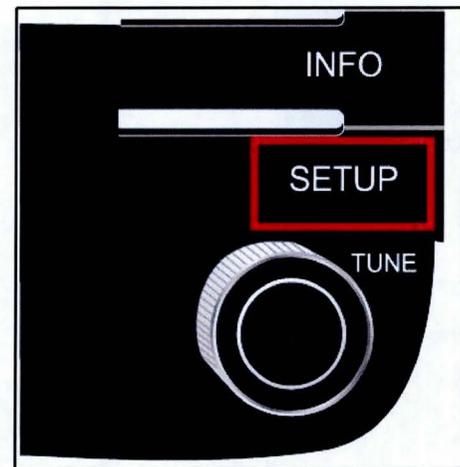
NOTE: The update may start automatically. If update does not start, follow the steps below to perform the update manually.

*** NOTICE**

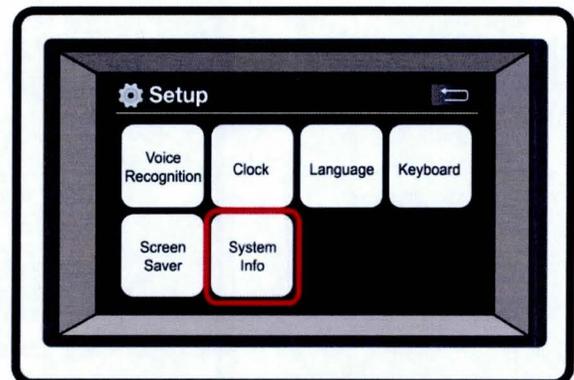
Do **NOT** turn the vehicle OFF or remove the SD Card while the update is in progress.



4. Press the **SETUP** button.



5. Scroll to the bottom of the page and touch **System Info** on the screen.



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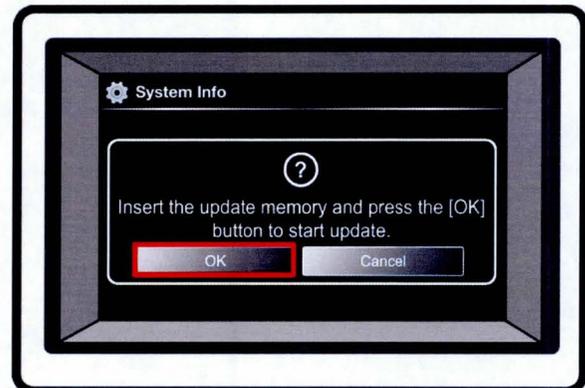
6. Touch **Update** on the screen.



7. Touch **OK** to start the upgrade.

*** NOTICE**

Do **NOT** turn the vehicle **OFF** or remove the **SD Card** while the update is in progress.

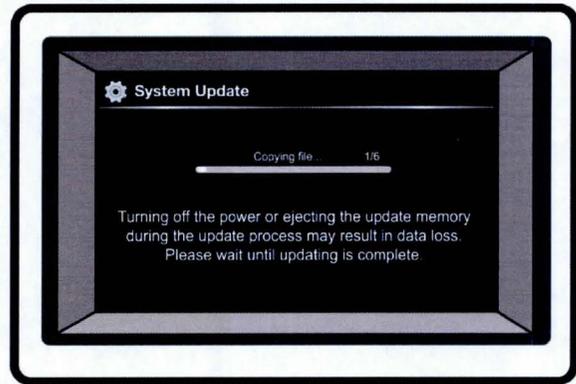


8. The system will check the integrity of update in the SD Card.



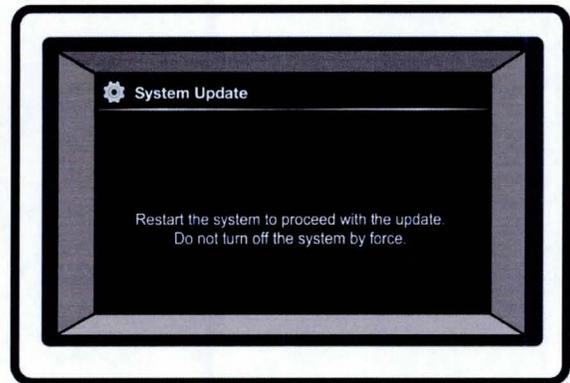
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- 9. After the system checks the update, the 1st stage of the update will begin



- 10. After the system finishes installing the 1st stage of the update, cycle power to the head unit and proceed to the next step.

*** NOTICE**
The system will restart multiple times during this update.



- 11. After turning the head unit ON, the "Update is complete" screen will appear on the display and the system will restart.



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- Once the system has restarted, the 2nd stage of the update will begin.

*** NOTICE**

Do **NOT** turn the vehicle OFF or remove the SD Card while the update is in progress.



- When the update is complete, the system will restart. Touch **Agree** on the screen.



- Press the **SETUP > Main > System Info** to verify the upgrade software version number matches the information in the table below:

| |
|---------------------------------|
| Upgrade Software Version |
| 07.43.43.003. |



- Restore the customer's radio presets as recorded on step 2.

New Features Guide

(USB Stick Part# 8U04 ~ 09 for Optima (MG), Sedona (VQ), Forte (TD))

Map:

- The roads and POIs in North America are changing about 15% every year. You can trust your navigation system to keep you on track with regular map updates. You can get the best route, the closest gas station, and search for even more restaurants. Below are the added roads and POIs information between V7 and V8.

| | Version 7 | Version 8 (New) | Additional Content | |
|------|--------------|-----------------|--------------------|----------|
| Road | 6,584,909 mi | 6,617,665 mi | +32,756 mi | |
| POI | 5,538,387 | 6,922,603 | +1,384,216 | |
| | Travel | 396,683 | 401,733 | +5,050 |
| | Shopping | 1,075,857 | 1,276,920 | +201,063 |
| | Finance | 270,894 | 272,506 | +1,612 |

Coverage: US, Alaska, Hawaii, Puerto Rico and Canada.

Navigation:

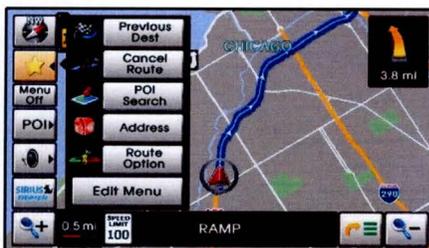
- Below are a few of the added navigation features.

- New User Interface**

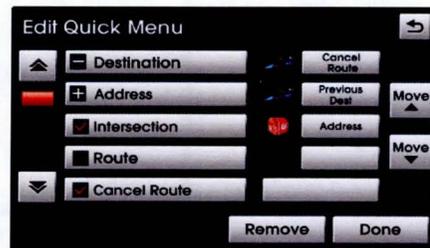


| | |
|---|---------------------------|
| 1 | Clock |
| 2 | Quick Button |
| 3 | Menu On/Off button |
| 4 | Map scale level indicator |
| 5 | Speed limit |

- Quick Menu**

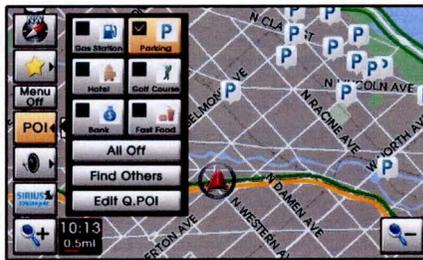


- Edit Quick Menu**



SUBJECT: NAVIGATION MAP UPGRADE – CUSTOMER RETAIL

- **POI Icons**



- **System displays previous destination by default**



- **Preview map on search screen**



- **Improved User Interface**



Audio:

3. Enhanced Bluetooth Compatibility & Voice Recognition

SD Card Part# 8S11 ~ 18 for 2014MY Cadenza (VG), Forte (YD), Optima (QF), Sorento (XMa), Sportage (SL)

Map:

| 1. | Version 7 | Version 8 (New) | Additional Content |
|----------|--------------|-----------------|--------------------|
| Road | 6,584,909 mi | 6,617,665 mi | +32,756 mi |
| POI | 5,538,387 | 6,922,603 | +1,384,216 |
| Travel | 396,683 | 401,733 | +5,050 |
| Shopping | 1,075,857 | 1,276,920 | +201,063 |
| Finance | 270,894 | 272,506 | +1,612 |

Coverage: US, Alaska, Hawaii, Puerto Rico and Canada.

SUBJECT: NAVIGATION MAP UPGRADE – CUSTOMER RETAIL

Navigation:

2. Below are a few of the added navigation features.

- **Enhanced UI – User Interface**



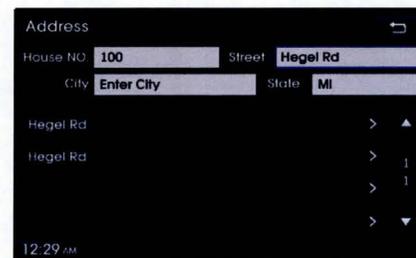
- **Smart Route Calculation**



- **Map User Interface**



- **Address search in one screen**



- **Easier POI search**

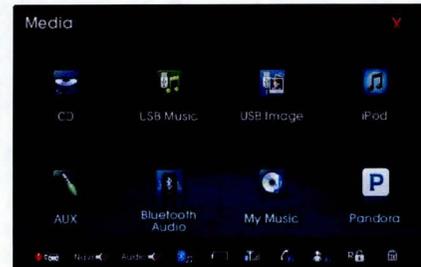


SUBJECT:

NAVIGATION MAP UPGRADE – CUSTOMER RETAIL

Audio

- **Auto Time Zone Update**
- **Enhanced phone compatibility**
- **Improved audio function**

**UVO**

- **Enhanced UVO eServices**
- **My Car Zone function (Curfew, Speed, Geo Fence, PIN setup)**

