| | GROUP MODEL | | | | | | | |
|---|----------------------------|--|--|--|--|--|--|--|
| Electrical 2012MY Soul (AM) 2012MY Optima (QF) | | | | | | | | |
| NUMBER DATE | | | | | | | | |
| 060 (REV 1, 12/19/2014) August 2014 | | | | | | | | |
| | TECHNICAL SERVICE BULLETIN | | | | | | | |
| SUBJECT: OPTIMA (QF) AND SOUL (AM) AVN AND BASE AUDIO SYSTEM UPGRADE | | | | | | | | |
| _ * N | OTICE | | | | | | | |

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 the procedure for upgrading the navigation system and base audio system software of some 2012MY Optima (QF) and some 2012MY Soul (AM) vehicles, to improve Bluetooth[®] connectivity.



GDS - Audio Update Module (AUM)

***** NOTICE

This is a software upgrade for the navigation operating system and \underline{NOT} a map upgrade.

File Under: <Electrical>



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SUBJECT: OPTIMA (QF) AND SOUL (AM) AVN AND BASE AUDIO SYSTEM UPGRADE

STEP 1: Optima (QF) / Soul (AM) AVN Operating System Upgrade

(For Optima (QF) / Soul (AM) Base Audio update, proceed to Page 8)

***** NOTICE

- Delete all paired phones from the system and delete the head unit from all phones. If you do not delete phones, the phone(s) will still show and act as paired, but performance or functionality issues may occur. Anytime a software update is performed to either a paired phone or the system, the pairing should be deleted from both phone and system and then paired again after update.
- A fully charged battery is necessary before audio head unit upgrade can take place. It is recommended that the Midtronics GR8-1299 system be used, in ECM mode, during charging. DO NOT connect any other battery charger to the vehicle during audio head unit upgrade.

***** NOTICE

USB sticks containing the 12MY QF/AM AUDIO/AVN upgrade for this TSB may <u>NOT</u> be available at the time of launch. Soon after release of this TSB, the USB sticks will be shipped to each dealer and will be addressed to the Service Manager.



Prior to arrival of the USB sticks, perform the upgrade using the GDS AUM.

- 1. Start the vehicle or connect the Midtronics GR8-1299 charger.
- 2. Record the customer's radio presets before performing the upgrade.
- If performing the update using the GDS AUM, refer to TSB SST 032 or click on User's Guide > GDS AUM on the GDS main screen, as shown below, and follow the on-screen instructions.

| Vehicle RIO(UB)/201 | 12/G 1.6 GDI | System Engine/Engine Co | ontrol | Overview |
|---------------------|------------------|-----------------------------|-----------------|--------------------------------|
| Preparation | Diagnosis | Vehicle S/W Management | Repair | ⊘ Hardware |
| Vehicle Info | Basic Inspection | ECU Upgrade | Replacement | GDS Basic Operation |
| Hot Fix | DTC Analysis | Audio Update | Component Info | GDS Preparation |
| By DTC | Data Analysis | ID Register | Circuit Diagram | GDS Diagnosis |
| | | | | GDS Vehicle SW Management |
| By Symptom | Case Analysis | Option Treatment | | ODS Repair |
| ≻By Model | Flight Record | Data Treatment | | ⊖ VMI |
| ►By VIN | Oscilloscope | Inspection / Test | | Appendix |
| | CARB OBD-II | II ECU Mapping Verification | | User's guide for optional Item |
| | | | | O GDS TPMS |
| Go to » 0 | | | | GDS AUM |
| kistechinto.com | | | | |

TSB: ELE 060 (REV 1) Optima (QF), Soul (AM) August 2014

4. If performing the update using a USB stick, obtain the 12MY QF/AM AUDIO/AVN update USB stick from your Service Manager and insert it in the vehicle's USB port. Make sure to allow for the sound file to play for two seconds before proceeding to the next step.

***** NOTICE

Do not remove the USB thumb drive, AUM connector or turn the radio OFF while the update is in progress.



5. Press the **SETUP** button.



This AVN System Update consists of two steps:

- 1. AVN System Update
- 2. Bluetooth System Update (see page 6)

The combined update will take approximately 10 to 15 minutes to complete.



6. Touch **Main** on the screen.

***** NOTICE

Screens shown in this bulletin are for demonstration purposes only and will vary depending on the vehicle.



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SUBJECT: OPTIMA (QF) AND SOUL (AM) AVN AND BASE AUDIO SYSTEM UPGRADE

7. Touch **System Info** on the screen.









8. Touch Map Upgrade on the screen.

9. The system will verify the update on the USB thumb drive.

 If update verification is not successful, the system will display an error message. If using a USB thumb drive, make sure it is the correct version.

11. If update verification is successful, touch **YES** on the screen to begin installation.



12. The system will begin the upgrade and the progress will be displayed on the bar graph. After the update is complete, the head unit screen will go dark. Turn the radio **ON** and proceed to the next step.

***** NOTICE

Do not remove the USB thumb drive, AUM connector or turn the radio OFF while the update is in progress.

| BSP | Upgrading |
|-----------|--------------------------------------|
| APP | |
| ACC | Shutting down system or ejecting |
| MAP | media may cause system crash. |
| BLUETOOTH | Please wait until upgrade completed. |
| MONITOR | |
| MICOM | |
| | |
| | |

 Access the System Information screen (SETUP > Main > System Info) to confirm the upgrade software version matches the information shown in the table below:

| Model | Upgrade Software Version |
|-------------|--------------------------|
| Optima (QF) | TF_nd.USA.SOP.01.039 |
| Soul (AM) | AM.USA.SOP.00.024 |



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SUBJECT: OPTIMA (QF) AND SOUL (AM) AVN AND BASE AUDIO SYSTEM UPGRADE

STEP 2: Optima (QF)/ Soul (AM) Bluetooth® System Upgrade

 Once the AVN update is complete, proceed with the Bluetooth System Update: Press the **PHONE** button to display the dialing screen.

***** NOTICE

Do not remove the USB thumb drive, AUM connector or turn the radio OFF while the update is in progress.



2. Press **Settings** on the screen.

| Phone | | 1:1 | 3 | | | | |
|-------------|---------------|------|----------|-------|--------|--|--|
| Not con | nected | | | | 3 per | | |
| Kia Consum | er Assistance | 4.50 | Such | 6 MHO | | | |
| (800) 333-4 | KIA | | 7 Proves | 8107 | 9 wxvz | | |
| SEND | Lever 1 | END | * | 0 | # | | |
| Cor | tocts | * | inters. | 🏟 Se | ttings | | |

3. To access the Bluetooth Engineering Mode, use a finger to touch the bottom left corner of the screen (1), then, immediately touch area above the **Connections** button (2), as shown.



4. Once in the Bluetooth Engineering Mode screen, press **FSW – Update** to begin the installation.

***** NOTICE

The update will take approximately two (2) minutes to complete.



 The system will begin the upgrade and the progress will be displayed on the bar graph. Once the update is complete, <u>turn the ignition OFF for five</u> (5) seconds. Then, <u>t</u>urn the ignition back **ON** and power up the head unit.



6. Perform step 3 again to access the Bluetooth Engineering Mode screen and confirm the upgrade software version matches the information shown in the table below:

| Model | Bluetooth Software Version |
|---------------------------|----------------------------|
| Optima(QF) / Soul (AM) | 3.32.1 ~ 3.32.42. |



- 7. Restore the customer's radio presets as recorded in step 2 (Page 2).
- 8. Verify proper system operation by obtaining the customer's phone(s) and pairing it (them) with the system. If the customer's phone is not available for pairing, inform the customer that the phone must be paired to the head unit.

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SUBJECT: OPTIMA (QF) AND SOUL (AM) AVN AND BASE AUDIO SYSTEM UPGRADE

Optima (QF) / Soul (AM) Base Audio System Upgrade Procedure:

- 1. Start the vehicle or connect the Midtronics GR8-1299 charger.
- 2. Record the customer's radio presets before performing the upgrade.
- 3. If performing the update using the GDS AUM, refer to TSB SST 032 or click on User's Guide > GDS AUM on the GDS main screen, as shown below, and follow the on-screen instructions.

| FEEDBAck Technice User's Guide Notice Continueration Search Vehicle FrogUD/2012G118 GO System EngineEngine Control Preparation Diagnosis Vehicle S/W Management Repair • Vehicle Info Basic Inspection ECU Upgrade Inspection Info • Obt Analysis I DrC Analysis I Dregister Component Info • By Symptom I Case Analysis Option Treatment Circuit Diagram • By VIN Obtalliscope Inspection / Test Outperiver • User's guide for optional Item Cost Mapping Verification • User's Guide • User's Guide Cost Mapping Verification • Corrule Diagram | VCI: Off | VMI : Off 🔹 Internet : Off | | C User's Guide |
|--|-----------------------------|--|---|--|
| Preparation Diagnosis Vehicle S/W Management Repair Vehicle Info Basic Inspection E CU Upgrade Replacement Hot Fix D TC Analysis I D Register Component Info By Symptom C case Analysis I D Register Circuit Diagram By Model Flight Record D tata Treatment By VIN G oscilloscope Inspection / Test B CARB OBD-II B ECU Maprig Verification | CK 🗤 Techline o | User's Guide Notice 0 | Configuration Search | User's Guide User's manual is provided in POF document form, and may take more than 10 seconds at the very first attem |
| Preparation Diagnosis Vehicle SVM Management Repair Vehicle Info Basic Inspection ECU Upgrade Il Replacement GDS Basic Operation GDS Basic Operation Hot Fix B DTC Analysis ELCU Upgrade Il Replacement GDS Basic Operation GDS Basic Operation By Symptom Case Analysis EI D Register Corrout D Diagnomi GDS Vehicle SW Management By Symptom Case Analysis ID Data Treatment Corrout D Diagnomi GDS Vehicle SW Management By Model El Flight Record Data Treatment Corrout D Diagnomi GDS Repair By VIN GD Case Dobin ELCU Mapping Verification Vehicle Streament User's guide for optional Item B CARB OBD-II B Case Unsping Verification Vehicle Streament GDS TPMS GDS AUM ELCU Mapping Verification Vehicle Streament Vehicle Streament | 2/G 1.6 GDI | System Engine/Engine C | ontrol | Overview |
| Vehicle Info B Basic Inspection E ECU Upgrade Replacement I Hot Fix D DC Analysis I Audio Update Component Info By DTC D bata Analysis II D Register Circuit Diagram By Symptom Case Analysis I Option Treatment Circuit Diagram By Nodel Flight Record I Inspection / Test By VIN CASB OBD-II E ECU Mapping Verification I ECU Mapping Verification Coss CASB OBD-II E ECU Mapping Verification I ECU Mapping Verification Coss Coss Preparation Coss Preparation Coss Coss Preparation Coss Preparation B CARB OBD-II E ECU Mapping Verification I ECU Mapping Verification Coss Coss Preparation Coss Preparation Coss </th <th>Diagnosis</th> <th>Vehicle S/W Management</th> <th>Repair</th> <th>⊘ Hardware</th> | Diagnosis | Vehicle S/W Management | Repair | ⊘ Hardware |
| Hot Fix B DTC Analysis B Audio Update I Component Info HBV Fix B Data Analysis B D Register I Circuit Diagram HBV Symptom B Case Analysis D Dotio Treatment I Coption Treatment HBV Symptom B Case Analysis I Data Treatment I Costilloscope IB Case OBD-II I Data Treatment I Data Treatment IB Case OBD-II B ECU Mapping Verification P IB CABR OBD-II B ECU Mapping Verification P IB Case Obdition I Case Obdition | Basic Inspection | ECU Upgrade | Replacement | |
| By DrC II Data Analysis II Degister II Circuit Diagram By Symptom II Case Analysis II Option Treatment II Case Analysis II Option Treatment By Model II Flight Record II Data Treatment II Case Analysis II Data Treatment By VIN II Oscilloscope II Inspection / Test II CARB OBD-II II ECU Mapping Verification II II Case On the second II | DTC Analysis | Audio Update | Component Info | |
| By Symptom II Case Analysis II Option Treatment By Model II Flight Record II Data Treatment By VIN II Oscilloscope II Inspection / Test II CARB OBD-II II ECU Mapping Verification II ECU Mapping Verification II Control II ECU Mapping Verification II ECU Mapping Verification II Control II ECU Mapping Verification II ECU Mapping Verification | Data Analysis | ID Register | Circuit Diagram | |
| By Model II Flight Record II Data Treatment By VIN II Cacliloscope II Inspection / Test II CARB OBD-II II ECU Mapping Verification II User's guide for optional Nem Compose II Compose II Inspection / Test II CARB OBD-II II COMPANY IN COMPOSE II Compose I | Case Analysis | Option Treatment | | |
| By VIN II Oscilloscope II Inspecton / Test II CARB OBD-II II ECU Mapping Verification II Control II Carbon Control II Con | | | | |
| GO STORE OBD-II BI ECU Mapping Verification User's guide for optional item GDS TPMS GDS AUM | | Inspection / Test | | |
| Go to > 0 | CARB OBD-II | ECU Mapping Verification | | |
| | | | | ODS TPMS |
| Tattechnike.com | | | | O GDS AUM |
| | | | | |
| | | | Contract The Malances | |
| | e Analysis DTC Current Data | uation Flight Record DVOM Oscillosco | pe Fault Code ECU Upgrade Internet Update | ā |
| - marine | | K Techline Control Control | Rechtine User's Guide Notice 201 / 8 GDI System Engine/Engine C Diagnosis Vehicle S/W Management Basic Inspection E CU Upgrade D TC Analysis Audio Update D Data Analysis I D Register Case Analysis Option Treatment E Flight Record D Data Treatment G Oscilioscope Inspection / Test C CARB OBD-II E CU Mapping Verification | Ex Techtine @ User's Guide Notice @ Configuration Search 26 1.6 GD System EngineEngineControl Diagnosis Vehicle S/W Management Repair Basic Inspection E CU Upgrade Replacement DTC Analysis E DD A Analysis ID Register Case Analysis Option Treatment Circuit Diagram Flight Record Data Treatment Circuit Diagram CARB OBD-II ECU Meppin Verification Image Advance |

4. If performing the update using a USB stick, obtain the 12MY QF/AM AUDIO/AVN update USB stick from your Service Manager and insert it in the vehicle's USB port. Make sure to allow for the sound file to play for one second before proceeding to the next step.



5. Turn the head unit OFF.



Screens shown in this bulletin are for demonstration purposes only and will vary depending on the vehicle.



 Press and hold buttons "1" and "4" at the same time for one second. Immediately after releasing buttons "1" and "4", press button "1" four (4) times in a row to access the Engineering Mode screen.



 Once in the Engineering Mode screen, make sure there is a letter "F" in parentheses (F) at the upper left corner of the screen. Then, press button "1" to access the firmware update menu

***** NOTICE

If the (F) is not present on the screen, restart the procedure from step 4.



***** NOTICE

Do not remove the USB thumb drive, AUM connector or turn the radio OFF while the update is in progress.





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SUBJECT: OPTIMA (QF) AND SOUL (AM) AVN AND BASE AUDIO SYSTEM UPGRADE

9. The upgrade will begin and system will display Erasing -> Writing -> Verifying on the screen.

***** NOTICE

The update will take approximately one (1) minute to complete.

 Power up the head unit, then, press and hold buttons "1" and "6", at the same time, for one second to check the software version matches the information shown in the table below:

| Model | Upgrade Software Version |
|----------------------------|--------------------------|
| Optima (QF) / Soul (AM) | V8.00.USA |





- 11. Restore the customer's radio presets as recorded in step 2.
- 12. Verify proper system operation by obtaining the customer's phone(s) and pairing it (them) with the system. If the customer's phone is not available for pairing, inform the customer that the phone must be paired to the head unit.

REQUIRED TOOLS:

| Part Name | Description | Figure | Comments |
|--------------------------------|----------------------|--------|--|
| GDS AUM / Upgrade USB Drive | 12MY QF/AM AUDIO/AVN | B | USB sticks for this TSB may not be available at the time of launch. <u>Perform the upgrade</u> <u>using the GDS AUM.</u> |

AFFECTED VEHICLE PRODUCTION RANGE:

| Model | Production Date Range | | |
|-------------|-----------------------|--|--|
| Soul (AM) | 2012MY | | |
| Optima (QF) | 2012MY | | |

WARRANTY CLAIM INFORMATION:

N CODE: M51 C CODE: ZZ3

| Claim Type | Causal P/N | Qty. | Repair Description | Labor Op Code | Op Time | Replacement P/N | Qty. |
|---------------|----------------|------|--|------------------|------------|--------------------|------|
| w | 96120 2T100 | 0 | (ELE 060) Base Audio Software Upgrade (QF/AM) | 28325F05 | 0.3 M/H | N/A | 0 |
| W | 96120 2K350 | 0 | (ELE 060) AVN Software Upgrade (QF/AM) | 28325F08 | 0.3 M/H | N/A | 0 |