	GROUP **General**	MODEL **2016MY Sorento (UMa)**
	NUMBER **073**	DATE **March 2015**

TECHNICAL SERVICE BULLETIN

SUBJECT: SORENTO (UMa) – TECHNOLOGY HIGHLIGHTS

In an effort to better educate and familiarize customers in regards to some of the features in their 2016MY Sorento (UMa) vehicle, Kia Motors America would like all dealership service personnel to become familiar with certain vehicle features, as outlined below, to help maximize owner satisfaction.

Feature Highlights:

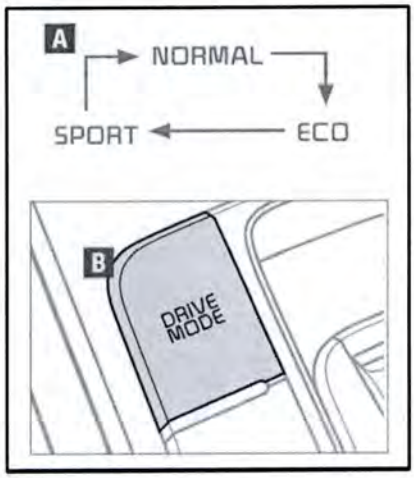
- Drive Mode Integrated Control System
- Blind Spot Detecting (BSD) System
- Lane Departure Warning System (LDWS)
- Forward Collision Warning System (FCWS)
- Reverse Parking Aid Function
- Advanced Cruise Control System
- Surround View Monitor (SVM)
- Electronic Parking Brake (EPB)
- Auto Hold
- Front Seat Headrest Adjustment
- Power Liftgate (Tailgate)
- Supervision Cluster
- TPMS
- Bluetooth Wireless Technology
- Steering Wheel Controls
- Seating (2nd Row Folding Seats)
- Power Seats
- Seat Warmers
- Driver Position Memory System
- Digital Clock Settings
- Smart Key
- Audio System (QR Codes)
- Icy Road Warning Indicator
- Normal Maintenance Schedule

File Under: <General >

Circulate To: ☒ **General Manager** ☒ **Service Manager** ☒ **Parts Manager**

☒ **Service Advisor(s)** ☒ **Technician(s)** ☒ **Body Shop Manager** ☒ **Fleet Repair**

Drive Mode Integrated Control System



The Drive Mode may be selected depending on driver's preferences and road conditions. To cycle through the different Drive Modes **[A]**, press the DRIVE MODE button **[B]**.

The Instrument Cluster will display SPORT or ECO when selected. When in Normal mode, it will not display in the Instrument Cluster. NOTE: The system will return to 'Normal ' Mode after the key is cycled.

QR CODE
Active ECO System Video
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Refer to page 2 for more information.
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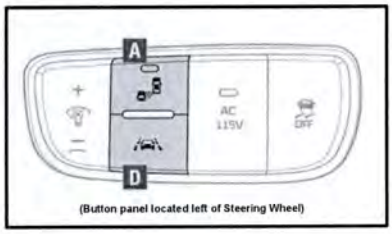
Blind Spot Detection (BSD)



The BSD system uses radar sensors to help alert the driver before changing lanes. The light on the BSD button **[A]** will illuminate when turned ON. The outside rearview mirror warning lights will also illuminate for 3 seconds.

The system will become active when the vehicle is traveling more than 9 mph and will alert the driver if another vehicle is detected by the radar sensor.

QR CODE
Blind Spot Detection System w/RCTA Video
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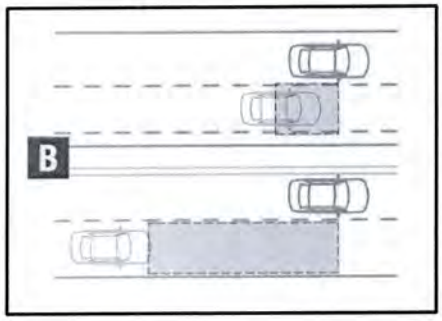
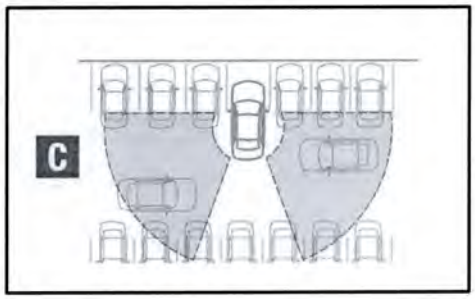
Blind Spot Detection / Lane Change Assist

1st stage alert: When another vehicle is detected within the BSD boundary **[B]**, a yellow indicator will illuminate on the respective outside rearview mirrors.

2nd stage alert: When 1st stage alert is ON and the driver activates a turn signal, a flashing indicator will illuminate on the outside rearview mirrors and the system will sound an alert.



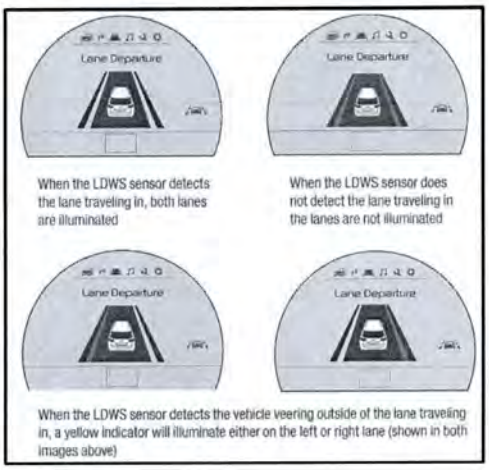
RCTA (Rear Cross Traffic Alert



If the RCTA system sensors detect approaching vehicles from the left or right side **[C]** the system will sound an audible alert, the warning indicators on the outside rearview mirror will illuminate and a message will appear on the LCD screen, when these conditions are met:

- The gear shift is in Reverse
- The vehicle moves in reverse
- The vehicle is moving less than 6 mph
- The RCTA can be set to on/off in User Settings from the LCD instrument cluster modes.

Lane Departure Warning System (LDWS)



With the ENGINE START/STOP button in the ON position, press the LDWS button **[D]** to turn system ON. The instrument cluster indicator will illuminate green.

If the LDWS detects that you are veering outside of your lane, the system may issue a warning on the LCD screen and an alert may sound, under these conditions:

- The vehicle exceeds approximately 43 mph
- The LDWS system recognizes the lane the vehicle is traveling in

QR CODE

Active ECO System Video

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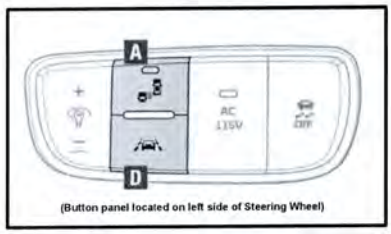
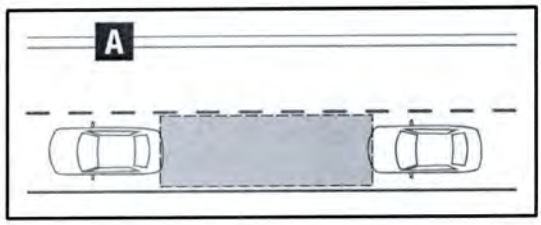
REMINDER: LDWS will not issue a warning if the turn signal is activated.



(Button panel located on left side of Steering Wheel)

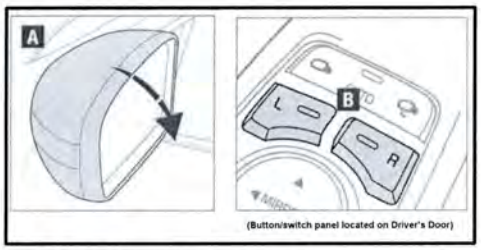
Forward Collision Warning System

The FCWS helps to alert the driver when rapidly approaching a vehicle that is slowing down, braking or stopped **[A]**. A warning message will appear on the LCD screen and a chime will sound. The FCWS will become active when the vehicle is traveling more than 25 mph. To turn the FCWS off, go to User Settings in the LCD Instrument Cluster modes.



REMINDERS:

- The FCWS will be activated by default when vehicle power is cycled on, even when previously set to off
- The FCWS will not operate when the vehicle is traveling more than approximately 50 mph



(Button/switch panel located on Driver's Door)

REMINDER: When one of the outside rearview mirror switches is not depressed (LED lit), the Reverse Parking Aid Function will not operate and the outside rearview mirrors will not rotate downward.

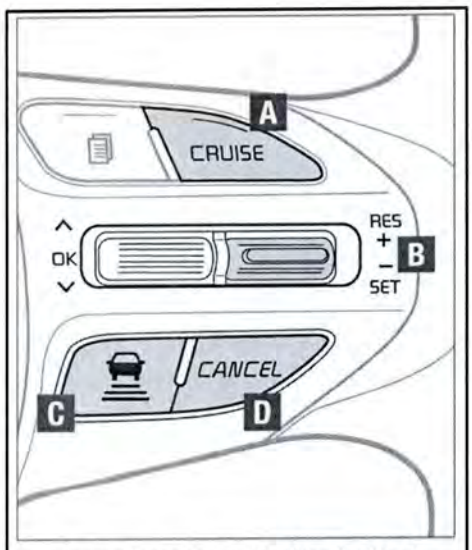
Reverse Parking Aid Function

When the gear shift lever is moved into R (Reverse) and while the vehicle is moving backward, the outside rearview mirrors **[A]** will rotate downward to aid in reverse parking. When the left or right mirror buttons **[B]** are depressed, the Reverse Parking Aid Function will operate (LED lit). To turn OFF the function, press the switches again. The outside rearview mirrors will automatically return to their original positions when:

- The ENGINE START/STOP Button is in the OFF position.
- The gear shift lever is moved to any position except R (Reverse)
- Outside rearview mirror switches are not depressed

Advanced Cruise Control System

The Advanced Smart Cruise Control (ASCC)* system allows you to set the vehicle to maintain a speed so long as it is not limited by traffic. When traffic is encountered, the vehicle will be slowed to maintain a set distance behind traffic without depressing the accelerator or brake pedal.



(Buttons located on right side of Steering Wheel)

To set/adjust the ASCC speed:

- Push the CRUISE button **[A]** to turn system ON. The CRUISE indicator will illuminate on the instrument cluster
- Accelerate/decelerate to the desired speed
- Press the ASCC lever **[B]** up or down to adjust or set speed

To set the vehicle-to-vehicle distance, press the ASCC button **[C]** on the steering wheel. The image on the LCD screen **[E]** will change when scrolling through the settings.

To turn system OFF, press the CANCEL button **[D]**. The CRUISE indicator on the instrument cluster will turn OFF and the LCD screen ASCC image will show "SCC canceled" **[F]**.

REMINDERS:

- Cruise Control button must be ON in order to turn ASCC ON/OFF
- ASCC is automatically activated by default when ignition is cycled

QR CODE

Advanced Smart Cruise Control Video

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Refer to page 2 for more information.

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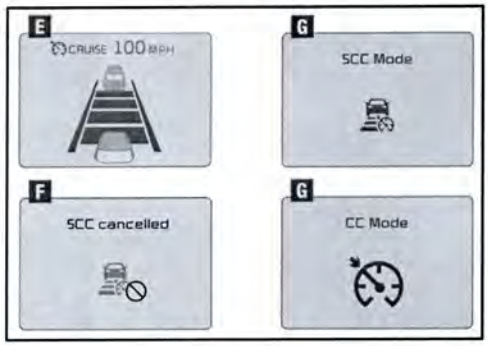
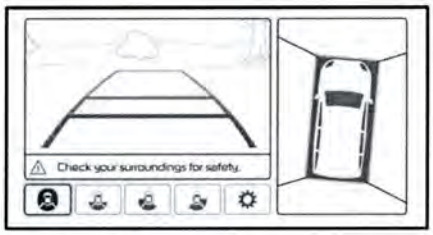
To change the Cruise Control mode from ASCC to standard Cruise Control **[G]**, press and hold button **[C]**. Repeat to switch modes again (The ASCC system must not be activated to change modes).



For the ASCC System to operate:

- When no vehicle is in front, you must be travelling at a minimum speed of 19 mph
- When following a vehicle, there is no minimum speed requirement

When following a vehicle, the system will automatically adjust your cruise speed based on the vehicle in front. It will even bring the vehicle to a complete stop if necessary. If the vehicle remains at a standstill for more than 3 seconds, the system will disable.



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Surround View Monitor Video

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Surround View Monitor

The Surround View Monitor (SVM) is a parking support system that shows the areas around the front, rear, left, and right sides of the vehicle via four cameras displayed in the navigation screen.

Front SVM operation:

- The camera view will display on the Navigation screen in both Drive and Neutral
- In Drive, the camera view will continue to display until the vehicle is above approximately 13 mph
- The camera view will reappear on the navigation screen whenever the vehicle drops below approximately 13 mph

The Front SVM camera is ON when:

1. The ENGINE START/STOP button is ON
2. The gear shift is in Drive or Neutral
3. The SVM button **[A]** is pressed ON

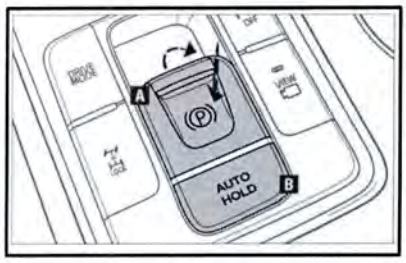
(Located next to Gear Shift)

Rear SVM operation:

- The camera view will automatically display on the navigation screen when the vehicle is shifted into Reverse
- The camera view will turn off when the vehicle is shifted out of Reverse

Electronic Parking Brake

The Electric Parking Brake (EPB) system utilizes an electric motor to engage the parking brake. Applying the Parking Brake Depress the brake pedal and pull up the EPB switch **[A]** .Ensure that the indicator light is illuminated on the instrument cluster.



Releasing the Parking Brake

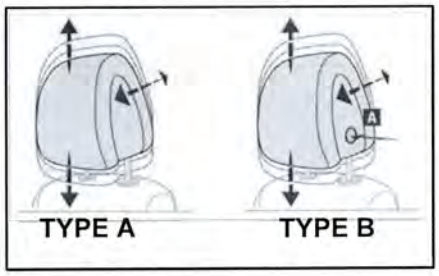
The EPB will automatically release when the shifter is placed in Reverse or Drive. To release EPB manually, depress the brake pedal, then press the EPB switch **[A]**, with the ignition switch in the ON position. Ensure that the indicator light is OFF.

Auto Hold

The Auto Hold maintains the vehicle in a standstill even though the brake pedal is not depressed after the driver brings the vehicle to a complete stop by depressing the brake pedal. Depress the brake pedal, start the engine and then press the AUTO HOLD button **[B]**.

The white AUTO HOLD indicator will come on indicating the system is in standby. Before the Auto Hold will engage, the driver's door, engine hood and trunk must be closed and the driver's seat belt must be fastened. When coming to a complete stop by depressing the brake pedal, the AUTO HOLD indicator changes from white to green indicating the Auto Hold is engaged and EPB is applied. The vehicle will remain at a standstill even if you release the brake pedal. If EPB is applied, Auto Hold will be released.

Front Headrest Adjustment



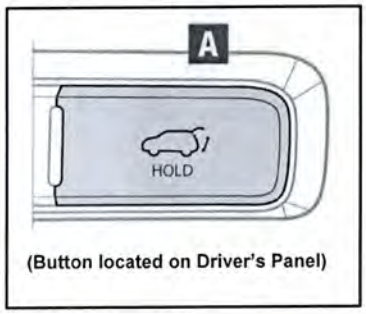
Type A* (Slide and Adjust Type)

- To raise headrest, pull headrest up to the desired position
- To lower headrest, press the headrest down
- To adjust headrest forward, pull the headrest forward to the desired position
- To adjust headrest backward, pull headrest forward to the farthest position, and release

Type B* (Depress button on side of headrest for 3 detent positions)

- To raise headrest, pull headrest up to the desired position
- To lower headrest, press and hold the release button* **[A]** and lower headrest to the desired position
- To adjust headrest forward, pull the headrest forward to the desired position
- To adjust headrest backward, press and hold the release button* **[A]** and push the headrest backward to the desired position

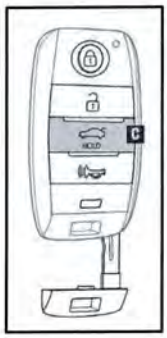
Power Liftgate (Tailgate)



Inside the Vehicle:
Press and hold the Power Liftgate Open/Close button **[A]** to automatically open/close the Liftgate.

Smart Key:
To open the Power Liftgate, press and hold the Liftgate button **[D]** until the Liftgate begins opening. Press again to close.

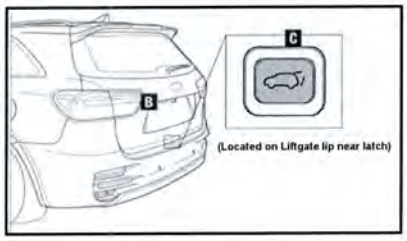
REMINDER:
Pulling the Rear Hatch upward by the handle or pressing the button a second time will interrupt the automatic opening of the Power Liftgate.



Outside the Vehicle:
To open Power Liftgate automatically, press the Rear Hatch Release button **[B]**. Close by pushing Power Liftgate Close button **[C]**.

Power Liftgate (Tailgate) Opening Height User Setting
The height setting of a fully opened liftgate (tailgate) can be adjusted following the steps below:

1. Position the liftgate (tailgate) manually to the preferred height
2. Press and hold the Power Liftgate Close button **[C]** for more than 3 seconds
3. A system beep will sound twice indicating the height setting has been saved



The liftgate (tailgate) will then open to the set height. To change setting again, repeat steps 1-3

Power Liftgate (Tailgate)

QR CODE

Smart Tailgate Video

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Refer to page 2 for more information.

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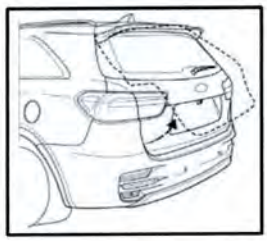
Smart Liftgate



When the Smart Key fob is on your person and you are near the back of the vehicle, within close proximity, the hazard lights will blink and a chime will sound for about 3 seconds as an alert that the Power Liftgate is about to open. Then the alert system will blink and chime two additional times before opening the Power Liftgate. The Smart Liftgate feature is off by default. To enable the Smart Liftgate, go to User Settings in the LCD Instrument Cluster modes.

QUICK TIPS

During the Smart Liftgate alert, the Smart Liftgate can be deactivated with the Smart Key by pressing any button on the key fob.

QR CODE

Engine Start/Stop Button & Smart Key Video

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Refer to page 2 for more information.

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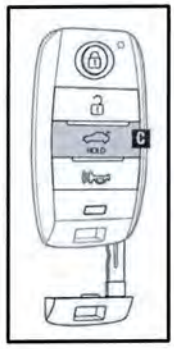
Smart Key (Power Liftgate)



[C] Manual Rear Hatch: Press and hold to unlock Rear Hatch and manually open

REMINDERS: The Rear Hatch does not automatically open when the **[C]** button is pressed. The Rear Hatch unlocks when the Smart Key fob is within close proximity of the vehicle.

[C] Power Liftgate*: Press and hold for Power Liftgate to open automatically. Press again at any time to stop. Press again to automatically close

Tire Pressure Monitoring System (TPMS)

The TPMS indicator functions as both Low Tire Pressure Light and TPMS Malfunction Indicator.

The indicator will illuminate if one or more tires is significantly underinflated, the vehicle has a spare tire installed without TPMS or the outside temperature becomes significantly lower.

Inflate tire(s) to specifications using an accurate digital tire pressure gauge to turn off Low Tire Pressure Position Indicator. See front driver's door jamb for PSI specification.

QUICK TIPS

- Even with TPMS, tire pressure should be checked manually at least once a month. Only adjust tire pressure on "cold tires"
- For proper maintenance and optimal fuel economy, maintain recommended tire inflation pressures and stay within the load limits and weight distribution recommended for your vehicle
- In winter or cold weather, the TPMS light may illuminate if the tire pressure was adjusted to the recommended tire inflation pressure during warm weather

REMINDER: Consult your dealer for service if Low Tire Pressure Light remains illuminated after inflating your tire(s).

QR CODES

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Refer to page 2 for more information.

Tire Pressure Monitoring System Video

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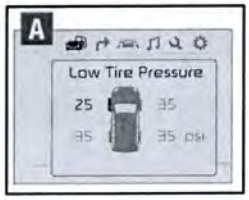
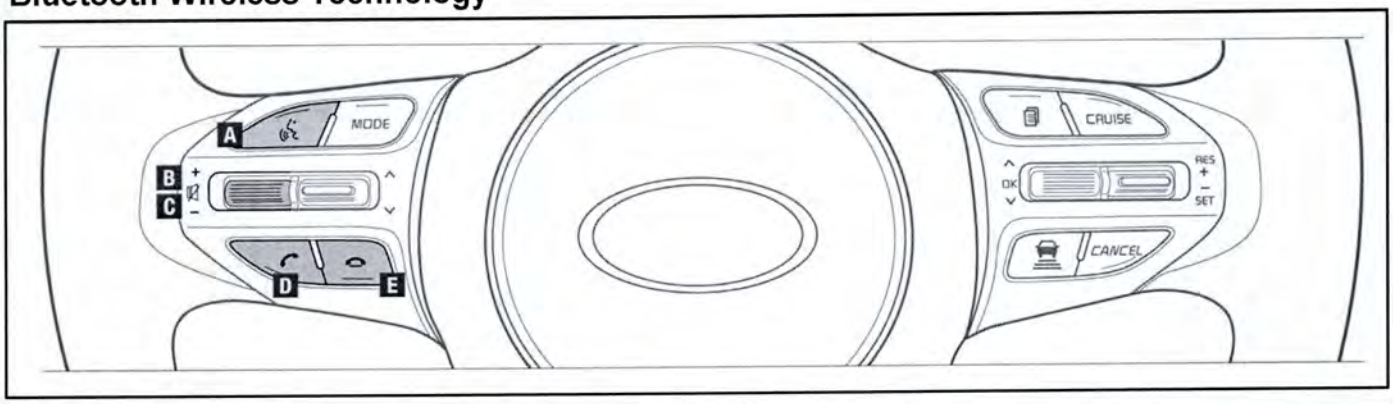
The Low Tire Pressure Position Indicator **[A]** is displayed on the LCD screen in the Instrument Cluster when the tire(s) are underinflated.



When there is a problem with the TPMS, the TPMS Malfunction Indicator will blink for approximately one minute and then illuminate. See dealer for service.

Bluetooth Wireless Technology



[A] Talk button: Press to activate voice recognition/bring up menus/place calls with minimal voice command prompts from the system

[B] Volume button: Roll up/down to raise/lower speaker volume

[C] Mute button: Press to mute the microphone during a call

[D] Receive/Place Call button: Press to receive/place/transfer calls. Press to place a call using voice command prompts from the system, or to answer an incoming call

[E] End Call button: Press to end a call or cancel a function

Pairing a Phone

For instructions on how to pair a phone, refer to the audio system's user's guide or your vehicle's Quick Start Guide.

QUICK TIP

During the pairing process, be sure to accept the connection requests on the phone for phonebook download and to allow acceptance of all future ***Bluetooth***® connection requests

QR CODE

Standard Audio System Videos

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Refer to page 2 for more information.

KuTechVideos.com/audio/base_system

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UVO eServices System Videos

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Premium Navigation System Videos

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Refer to page 2 for more information.

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QUICK TIPS

- Phonebook transfer upload time varies by phone model and with number of phonebook entries
- Because of differences in phone quality, service providers and ***Bluetooth***® Wireless Technology chip programming, functionality may differ from one phone to another
- Changing language setting may delete paired phones

How to Place a Call

When using the voice command feature, wait for the system BEEP before speaking the command.

There are two options for placing a call:

Standard Audio System

- Option 1: Press the Receive/Place Call button **[D]** (system will prompt you through call process)
- Option 2: Press the Talk button A (system will BEEP to indicate it is ready for call placement). Then say the command "Call {name}" or "Dial {number}"

UVO eServices and UVO eServices with Premium Navigation*

- Option 1: Press the Receive/Place Call button D (displays the phone screen with number keypad)
- Option 2: Press the Talk button **[A].** Then say the command "Call {name}" or "Dial {number}"

Voice Recognition and Phone Contact Tips

The Kia Voice Recognition System may have difficulty understanding some accents or uncommon names. When using Voice Recognition to place a call, speak in a moderate tone, with clear pronunciation.

Help your Bluetooth® Wireless Technology Voice Recognition performance by making a few simple changes to your phone contacts:

- Use full names vs. short or single-syllable names ("John Smith" vs. "Dad"; "Smith Residence" vs. "Home")
- Avoid using special characters or hyphens (@, &, #, /, -, *, +, etc.)
- Avoid using acronyms ("In Case of Emergency" vs. "ICE")
- Spell words completely, no abbreviations ("Doctor Goodman" vs. "Dr. Goodman")

QR CODE

Voice Recognition Tips Video

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Refer to page 2 for more information.

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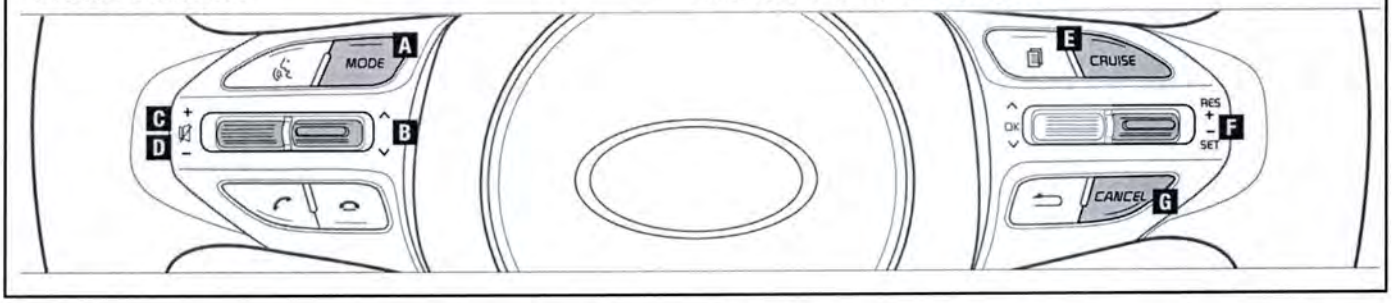
Steering Wheel Controls

Audio Controls | **Standard Cruise Control**



[A] Audio Mode button: Press to cycle through FM/AM/Sirius® Media (CD, USB, iPod®, Aux, Bluetooth® Audio, My Music) modes

QUICK TIP

Pressing the Audio Mode button for more than 1 second will turn Audio Mode ON/OFF.

[B] Seek/Preset buttons:
FM/AM/Sirius® Modes: Press to advance through Preset Stations. Press and hold to auto seek

Media Modes: Press up/down to move track up/down. Press and hold to fast forward/rewind

[C] Volume buttons: Roll up/down to raise/ lower volume

[D] Mute button: Press to mute all audio

[E] CRUISE Control ON/OFF button: Press to turn the Cruise Control ON/OFF

[F] Resume Cruising Speed button: Press up to resume or increase cruising speed

Set Cruising Speed button: Press down to set or decrease Cruising Speed

[G] Cruise Control CANCEL button: To cancel Cruise Control, do one of the following:

- Press the brake pedal
- Press the CANCEL button **[G]**

QUICK TIPS

- Cruise Control is designed to function above 25 mph
- The Cruise Control system will not activate until the brake pedal has been depressed at least once after ignition ON or engine start

Steering Wheel Controls

To set up the Digital Clock:

Standard Audio System

Press SETUP button on audio system, then press on screen instructions to change clock settings.

UVO eServices System

Press the CLOCK button to display the Clock setting screen. Then use the on-screen buttons to navigate through setup.

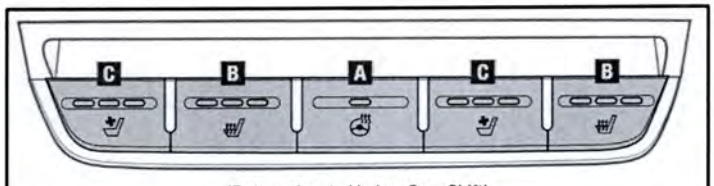
Navigation System

Press the Setup button. Then press the on-screen Clock icon to enter clock settings

QUICK TIP

Press the DONE button on the navigation screen to ensure changes are saved.

Heated Steering Wheel



(Buttons located below Gear Shift)

Press Heated Steering Wheel button **[A]** to turn the Steering Wheel Heater on/off, while the ENGINE START/STOP button is in the ON position. Steering Wheel Heater will turn off automatically in 30 minutes, or when button **[A]** is pressed again to deactivate.

QUICK TIPS

- If ignition is turned OFF, then ON again within 30 minutes of Steering Wheel Heater being turned ON, the system will remain in the ON position
- System does NOT turn off when ignition is cycled. To turn off system, press the Heated Steering Wheel button A

QUICK TIP

With the seat warmer switch in the ON position, the heating system in the seat turns OFF or ON automatically depending on the seat temperature.

[B] Seat Warmers

- Press button once for high setting (3 LEDs lit)
- Press button twice for medium setting (2 LEDs lit)
- Press a third time for low setting (1 LED lit) and again to turn OFF

[C] Ventilated Seats

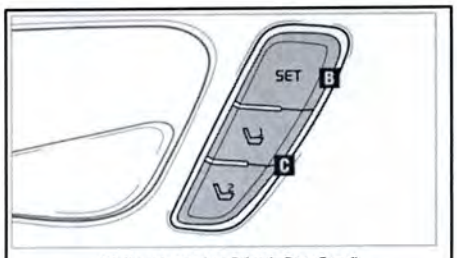
- Press button once for high setting (3 LEDs lit)
- Press twice for medium setting (2 LEDs lit)
- Press a third time for low setting (1 LED lit) and again to turn OFF

Driver Position Memory System

The integrated system stores into memory the position of the Driver's Seat and the Outside Rearview Mirrors.

To store positions into memory, first place the Gear Shift into P (Park) while the ENGINE START/STOP button is in the ON position. Then:

1. Adjust the Driver's Seat and the Outside Mirrors
2. Press the SET button **[B]** on the control panel. System will beep once
3. Press one of the memory buttons **[C]** within 5 seconds. The system will beep twice when memory has been stored



(Buttons located on Driver's Door Panel)

Power Adjustable Driver's Seat

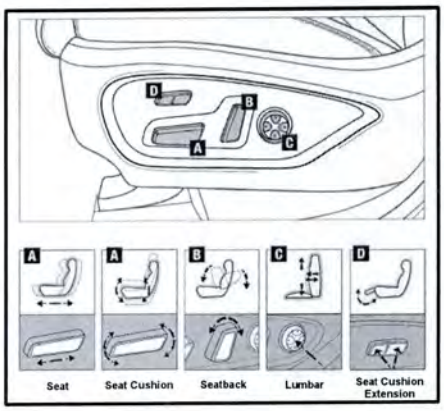
Move/Press controls to adjust Seat, Seat Cushion, Seatback or Lumbar support

[A] Seat Bottom Adjustment

[B] Seat Back Recline Adjustment

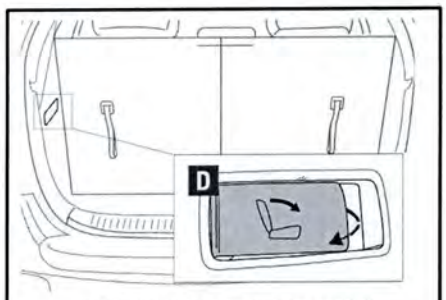
[C] Lumbar Adjustment

[D] Seat Cushion Extension



2nd Row Auto Folding Seat

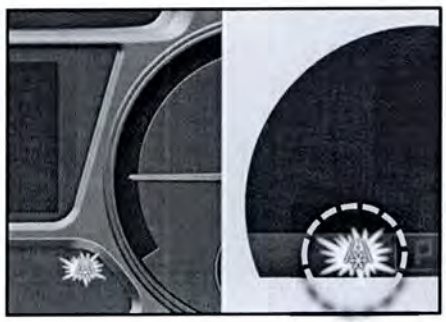
Pull lever **[D]** to release and automatically fold 2nd Row Seatback down.



(Located on rear quarter-trim panels)

Icy Road Warning Indicator

This warning light will illuminate when the ambient temperature drops below 40° F. The warning light will blink 10 times and then illuminates. Additionally, a chime will sound 3 times.

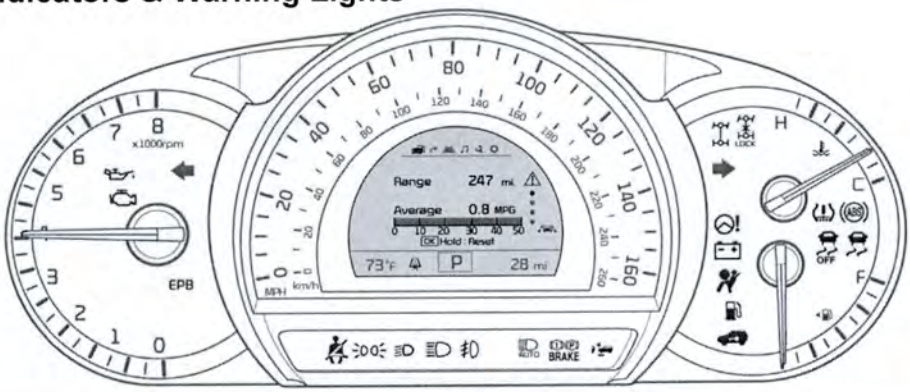


SUBJECT

SORENTO (UMA) – TECHNOLOGY HIGHLIGHTS

Super Vision Cluster

Indicators & Warning Lights



(Type B Cluster)

REMINDER:

- Your vehicle's instrument cluster & indicator light locations may differ from those in the illustrations. See your Owner's Manual for more details.
- Some Indicators and Warning Lights listed here may not be shown in the illustration.

QUICK TIP

For more information on the function of all indicator and warning lights, please refer to the Owner's Manual.

- Engine Oil Pressure Warning Light
- Malfunction Indicator Light
- EPB — Electric Parking Brake (EPB) Warning Light*
- Seat Belt Warning Light
- Light ON Indicator Light
- Head Lamp ON Indicator Light
- High Beam Indicator Light
- Front Fog Light Indicator Light
- High Beam Assist Indicator Light*
- BRAKE — Parking Brake & Brake Fluid Warning Light
- Forward Collision Warning (FCW) System OFF/Warning Indicator*
- All-Wheel Drive (AWD) Warning Light*
- All-Wheel Drive (AWD) Lock Indicator Light*
- Electronic Power Steering (EPS) Warning Light
- Charging System Warning Light
- Airbag Warning Light
- Low Fuel Level Warning Light
- Immobilizer Indicator Light*
- Engine Coolant Temperature Warning Light
- Icy Road Warning Indicator Light
- Low Tire Pressure Light / Tire Pressure Monitoring System (TPMS) Malfunction Indicator Light
- Anti-Lock Braking System (ABS) Warning Light
- OFF — Electronic Stability Control (ESC) OFF Indicator Light
- Electronic Stability Control (ESC) Warning Indicator Light
- AUTO HOLD — AUTO HOLD Indicator*
- SET — Cruise Control SET Indicator*
- CRUISE — Cruise Control ON Indicator*
- Washer Fluid Warning Light*
- Master Warning Light
- BRAKE — Electronic Brake Force Distribution (EBD) System Warning Light
- Lane Departure Warning System (LDWS) ON/OFF Indicator Light

KIA NORMAL MAINTENANCE SCHEDULE

When your vehicle requires service, remember that your dealer knows your vehicle best. Your dealer has factory-trained technicians, recommended special tools, genuine Kia replacement parts, and is dedicated to your complete satisfaction. For expert advice and quality service, see your authorized Kia dealer.

INTERVAL MAINTENANCE CHART										
7,500 miles	A	B								
15,000 miles	A	B	C							
22,500 miles	A	B								
30,000 miles	A		C	D						
37,500 miles	A	B								
45,000 miles	A	B	C		E					
52,500 miles	A	B								
60,000 miles	A		C	D		F	G	H		
67,500 miles	A	B								
75,000 miles	A	B	C			F				
82,500 miles	A	B						H		
90,000 miles	A		C	D	E	F				
97,500 miles	A	B							I	
105,000 miles	A	B	C			F		H		
112,500 miles	A	B								J
120,000 miles	A		C	D		F	G			

A Inspect* — Battery condition, vacuum hose
Replace — Engine oil and oil filter (2.4/3.3 GDI - Every 7,500 miles or 12 months; 2.0 T-GDI - At first, 3,000 miles or 6 months and every 5,000 miles or 6 months afterward)
Perform — Rotate tires; add fuel additive[1]

B Inspect* — Air cleaner filter

C Inspect* — Air conditioner refrigerant and performance**, brake lines, hoses and connections; drive shaft and boots, exhaust pipe and muffler, front/rear disc brakes and pads**, front brake calipers, steering gear box, linkage and boots/lower arm ball joint, upper arm ball joint and suspension mounting bolts propeller shaft (AWD)
Replace — Climate control air filter (for evaporator and blower unit)

D Inspect* — Brake fluid, parking brake**, fuel filter[2], fuel tank air filter[2], fuel tank, lines, vapor hose, connections and fuel filler cap
Replace — Air cleaner filter

E Replace — Spark plugs (iridium coated), 2.0 T-GDI

F Inspect* — Drive belts[3]

G Inspect — Valve clearance[4]

H Replace — Engine coolant[5]

I Replace — Spark plugs (iridium coated), 2.4/3.3 GDI

J Inspect* — Rear axle oil (AWD), transfer case oil (AWD)

* and, if necessary, adjust, clean, replace or correct.
** If equipped.
[1] If TOP TIER Detergent Gasoline is not available, one bottle of additive is recommended. Additives are available from your authorized Kia dealer along with information on how to use them. Do not mix other additives.
[2] Fuel filter & fuel tank air filter are considered to be maintenance free, but periodic inspection is recommended for this maintenance schedule depends on fuel quality. If there are some important safety matters like fuel flow restriction, surging, loss of power, hard starting problem, etc., replace the fuel filter immediately regardless of maintenance schedule and consult an authorized Kia dealer for details.
[3] The drive belt should be replaced when cracks occur or tension is reduced excessively. Inspect "Water Pump" when replacing the drive belt or timing belt.
[4] Inspect for excessive tappet noise and/or engine vibration and adjust if necessary.
[5] When replacing coolant, use only a qualified coolant additive for your vehicle and never mix hard water in the coolant filled at the factory. An improper coolant mixture can result in serious malfunction or engine damage.

Check tire pressure at least once a month or more.