



# HYBRID Information

## Normal Hybrid Vehicle Operation

Your new hybrid combines the power of a gasoline engine with the efficiency of an electric motor to minimize fuel consumption and maximize performance. These components work together to automatically adjust to changing driving conditions. For example, your gasoline engine will start when needed to provide power and also stop at times when it is able to save energy, such as when your vehicle comes to a stop or is coasting. In addition, your instrument cluster is also specifically designed to help optimize fuel economy and performance, by providing information such as instantaneous fuel economy and efficiency information. Your hybrid requires no special fuels and never has to be plugged in. All you have to do is get in and drive, now more efficiently than ever and in an environmentally conscious manner.

In order to help you fully understand and appreciate the features and unique characteristics of your new vehicle, we invite you to explore this easy-to-use Quick Reference Guide.

Please also refer to your Owner's Guide for more information.

Use extreme caution when using any device or feature that may take your attention off the road. Lincoln recommends against the use of any hand-held device while driving and that you comply with all applicable laws. Your primary responsibility is the safe operation of the vehicle.

### STARTING

Your hybrid starts just like a conventional vehicle. However, when you turn the ignition on, your engine may not 'start' as your hybrid vehicle is equipped with Silent Key Start (SKS). This fuel saving feature allows your vehicle to be ready to drive without requiring your gas engine to be running. The gas engine may or may not start depending on environmental conditions. The 'ready to drive' indicator light (🚗) will illuminate in two places when your vehicle has been successfully started, indicating the vehicle is ready to drive (even if you don't hear the gasoline engine running). Note: One of these lights will remain on after startup.

### DRIVING

The gas engine automatically starts and stops to provide power when it's needed and to save fuel when it's not. While driving at low speeds, coming to a stop or idling, the gas engine normally shuts down and the vehicle operates in Electric Vehicle (EV) mode. For a complete list of conditions that may cause your gas engine to start or remain running, refer to your Owner's Guide.

### STOPPING

The gas engine may turn off as you come to a stop to conserve fuel. You do not need to restart your vehicle. Simply step down on the accelerator when you are ready to drive.

### TRANSMISSION OPERATION

Due to the technologically advanced, electronically controlled Continuously Variable Transaxle (eCVT), you will not feel shift changes like those of a non-hybrid vehicle. Your hybrid's transmission is designed to do its work seamlessly. However, you may feel the transition when the system changes from Electric Vehicle (EV) mode to gas mode. This is normal. Since your engine speed is controlled by the transmission, it may seem elevated at times. This is also normal hybrid operation as it helps deliver fuel efficiency and performance.

### NEUTRAL (N)

It is not recommended to idle the vehicle in N (Neutral) for extended periods of time because this will discharge your high voltage battery and decrease the fuel economy. Also, the engine cannot provide power to the hybrid system in Neutral.

### LOW GEAR (L)

Low gear is designed to mimic the enhanced engine braking available in non-hybrid vehicles. Low gear may result in high engine speeds to provide necessary engine braking. This is normal and will not damage your vehicle. Your response during acceleration should be the same as in D (Drive). In L (Low), the gas engine will remain on more often than in D (Drive).

## Unique Hybrid Operating Characteristics

### HIGH VOLTAGE BATTERY

This battery provides power to the vehicle's electric motor. The 'charge' level is shown in the instrument cluster and also on the Navigation system HEV screen (if equipped) and will increase and decrease during normal operation. Located behind the rear seat of the vehicle, the battery is cooled when needed by cabin air drawn from vent holes below the rear seat cushions. Ensure that you do not place objects at the vent holes, as doing so would block airflow. In addition, you may hear air movement coming from the trunk area as the battery fan operates. The fan may continue to operate for a short duration after the vehicle has been turned off. Your hybrid high voltage battery may periodically recondition itself to ensure maximum efficiency. When this happens, you may hear a series of clicks from the cargo area when you first turn the key in the ignition. This sound is the high voltage contactors closing to allow you to start your hybrid. You may notice slight changes in drivability during this process, but it's an important part of your hybrid's high voltage battery optimization feature.

### ENGINE

The engine speed in your hybrid is not directly tied to your vehicle speed. Your vehicle's engine and transmission are designed to deliver the power you need at the most efficient engine speed. During heavy accelerations, your hybrid may reach high engine speeds (up to 6000 RPM). This is a characteristic of the Atkinson cycle engine technology and helps to maximize your hybrid's fuel economy. In prolonged mountainous driving, you may notice changes in engine speed without your input. This is by design and maintains the battery charge level. You may also notice during extended downhill driving that your engine continues to run instead of shutting off. During this "engine braking," the electric motor captures this energy and sends it back to the high voltage battery for later use. So whenever you apply your brakes, you are essentially recharging the high voltage battery.

### ELECTRIC MOTOR

The electric motor is activated automatically and powered by the engine/generator and the high

### ENGINE

voltage battery. Depending on your instrument cluster and/or navigation settings (if equipped), your gauges may indicate when you are in Electric Vehicle (EV) mode.

### REGENERATIVE BRAKING

Your hybrid vehicle is equipped with standard hydraulic braking and also regenerative braking. The use of hydraulic braking and regenerative braking is automatically controlled as you bring your vehicle to a stop. Regenerative braking is performed by the powertrain/transmission system and it captures brake energy and stores it in the high voltage battery. In conventional vehicles, when you brake, the energy is lost as heat. With regenerative braking, the electric motor captures this energy and sends it back to the high voltage battery for later use. So whenever you apply your brakes, you are essentially recharging the high voltage battery.

### STOP SAFELY HAZARD WARNING LIGHT

Indicates a hybrid component fault/failure that will cause the vehicle to

shutdown, fail to start or enter into a limited operating mode. Note: If the vehicle is still running, the vehicle may soon shutdown without further warning and should be stopped safely.

### THROTTLE CONTROL/ POWERTRAIN MALFUNCTION

Illuminates when a powertrain fault has been detected which may cause the vehicle to enter into a limited operating mode. If the indicator stays on or continues to come on, contact your authorized dealer as soon as possible.

### CHARGING SYSTEM WARNING LIGHT

Illuminates when the low-voltage battery is not charging properly. If this stays on while the vehicle is running ("Ready to Drive" indicator is illuminated), there may be a malfunction with the charging system. Contact your authorized dealer as soon as possible.

## Ways to Optimize Your Fuel Economy

Your fuel economy should improve throughout your hybrid's break-in period. As with any vehicle, fuel economy can be significantly impacted by your driving habits and accessory usage. For best results, keep in mind these tips:

### DRIVING HABITS

In general, better fuel economy is achieved with mild to moderate acceleration and braking, since aggressive driving increases the energy required to move your vehicle. Moderate braking allows you to capture the most energy with the regenerative braking system. Keeping a safe following distance and anticipating the traffic ahead can also make smooth driving much easier. Highway fuel economy can be improved by lowering your speed and driving with a steady foot on the accelerator pedal (or using cruise control on flat terrain). A warm engine is more efficient, so combining several short trips back-to-back will help to increase your average fuel economy for the entire outing.

Refer to the Instrument Cluster and Maintenance and Specifications sections of the Owner's Guide for more information about optimizing fuel economy.

NOTE: Your hybrid vehicle is designed to use the most efficient energy source (gasoline or electric energy) at all times. It is not an indication of inefficiency if the gasoline engine is running.

### CLIMATE CONTROL

Your hybrid is equipped with an electrically driven A/C compressor that provides cooling regardless of whether the gasoline engine is running or not. Like other accessories, the A/C compressor uses electrical energy and reduces fuel economy. With the Smart Dual Zone feature, the passenger side air temperature will default to the driver side setting if the passenger seat is not occupied. In A/C mode, using AUTO and/or choosing a higher temperature setting will improve fuel economy. Keeping your vehicle from becoming very hot or cold by parking in a garage or in a shaded location can also help reduce climate control energy usage.

### DRIVER INFORMATION

Your hybrid vehicle is equipped with several levels of driver information in the instrument cluster. Instantaneous and average fuel economy are available on every level. One way to optimize fuel economy is to notice what fuel economy you achieve and how it changes under different conditions. Then you can begin to understand how you can increase your fuel economy.

### ADDITIONAL TIPS

Keep tires properly inflated and use only the recommended size and specification. The tires supplied on your vehicle are low rolling resistance tires. Do not carry extra loads. Minimize use of accessories that use electrical energy and reduce fuel economy. Be mindful of adding external accessories that may increase aerodynamic drag. Perform all scheduled maintenance. There is no need to wait for your engine to "warm up." The vehicle is ready to drive immediately after starting.

# INSTRUMENT Cluster



Your new hybrid vehicle has a SmartGauge™ instrument cluster which allows you to customize the cluster to your exact preferences. Lincoln highly encourages you to familiarize yourself with these new features by taking advantage of the 'Demo' and 'Tutorial' features of your message center. The Demo feature will briefly display each available gauge while the tutorial provides a brief overview of the instrument cluster features.

## TO ACCESS DEMO AND TUTORIAL

- Press SETUP on the steering wheel controls repeatedly until 'Demo' or 'Tutorial' is highlighted in the message center display.



- Press RESET to select and enter that menu.
- When 'Start Demo' or 'Start Tutorial' is highlighted, press RESET to select.

Once you have chosen your desired cluster, you can then choose to customize certain individual features within those displays such as:

### INSTANTANEOUS FUEL ECONOMY

The instantaneous fuel economy is displayed in miles per gallon (or liters per 100 kilometers) from 0 to 60 mpg (or 0 to 30 L/100km). Your vehicle must be moving to calculate instantaneous fuel economy. You may turn this gauge on or off at any information level.



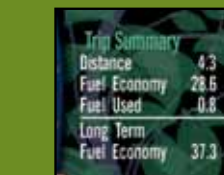
### EFFICIENCY INFORMATION

Allows you to view a graphical representation of the fuel economy over the past 10, 20 or 60 minutes, or to view 'efficiency leaves' which displays more or less leaves and vines depending on your driving efficiency. Your vehicle will also display efficiency flowers when you have achieved long term driving efficiency. The more flowers that display, the more efficiently you have driven. Once earned, the flowers will remain unless the long term fuel efficiency is reset.



### TRIP SUMMARY

When the ignition is turned off, the instrument cluster will transition to a trip summary screen. On this screen, information is displayed regarding trip distance, trip fuel economy, fuel used, and trip efficiency (via efficiency leaves) during your most recent drive. Long term fuel economy is also displayed, showing the fuel economy of the vehicle from the last customer reset.



## TO MAKE ANY OF THESE ADJUSTMENTS WHILE IN THE 'DISPLAY SETTINGS' MENU:

- Press SETUP repeatedly until the desired choice is highlighted.
- Press RESET to select the highlighted item and move to the right in the menu.
- Press SETUP again until the desired selection is highlighted and then press RESET to select the item.

Refer to your Owner's Guide for complete information on these features.

# HYBRID 2011

This Quick Reference Guide is not intended to replace your vehicle Owner's Guide which contains more detailed information concerning the features of your vehicle, as well as important safety warnings designed to help reduce the risk of injury to you and your passengers. Please read your entire Owner's Guide carefully as you begin learning about your new vehicle and refer to the appropriate sections when questions arise.

All information contained in this Quick Reference Guide was accurate at the time of duplication. We reserve the right to change features, operation and/or functionality of any vehicle specification at any time. Your Lincoln dealer is the best source for the most current information. For detailed operating and safety information, please consult your Owner's Guide.

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## AUDIO Control



NOTE: The system illustrated here is the navigation based audio system. Please refer to your navigation supplement for complete information on this system.

### VOL/PUSH

Push to turn the system on/off. Turn to increase/decrease the volume.

### CD

Press to enter CD/MP3 mode. If a disc is already present in the system, CD play will begin where it last ended.

### AM/FM

Press repeatedly to cycle through AM, FM1 or FM2 frequency bands.

### Clock

To set the time, press CLOCK. Use the memory preset numbers (0-9) to enter the desired time and press OK.

SIRIUS® satellite radio broadcasts music, sports, news and entertainment programming. For more information and a complete list of SIRIUS® satellite radio channels, visit [www.sirius.com](http://www.sirius.com) in the United States, [www.sirius-canada.ca](http://www.sirius-canada.ca) in Canada, or call SIRIUS® at 1-888-539-7474. Satellite radio is only available with a valid SIRIUS® radio subscription.

### SIRIUS

Press repeatedly to cycle through SAT1, SAT2 and SAT3 (satellite radio modes, if equipped). Press MENU when active and then OK to enter the satellite radio menu and access more options. Refer to your Owner's Guide for more information.

### SOUND

Press repeatedly to access: Bass, Treble, Balance, Fade, Speed compensated volume and All seats (Occupancy mode, if equipped) menu options. Press ◀ SEEK/TRACK ▶ to make adjustments.

### SCAN

Press for a brief sampling of all radio stations, CD tracks or satellite radio channels (if equipped). Press again to stop.

### DIRECT

Press DIRECT and then, using the memory presets (0-9), enter in the desired radio station, track number, MP3 folder number (if in MP3 mode), or satellite radio channel.

### TUNE

Turn to go to the next/previous satellite radio channel, or to go up/down the radio band frequency in individual increments.

## ADDITIONAL Features

### REARVIEW CAMERA (IF EQUIPPED)

This system provides a visual display of the area behind the vehicle. The display automatically appears on the navigation screen (if equipped) or in the rear view mirror when the vehicle is in R (Reverse) and uses colors (green, yellow and red) to alert you of

your proximity to objects. NOTE: Visibility aids do not replace the need to watch where the vehicle is moving. Refer to your Owner's Guide for safety information, more detail and limitations.



### SYNC®

SYNC® is a hands-free communications and entertainment system with special phone and media features. For more information, please refer to the SYNC® Supplement, the SYNC® section in the Navigation Supplement (if equipped) or visit [www.SyncMyRide.com](http://www.SyncMyRide.com).



### BLIND SPOT INFORMATION SYSTEM (BLIS®) WITH CROSS TRAFFIC ALERT (CTA) (IF EQUIPPED)

BLIS® uses radar sensors to help you determine if a vehicle may be in your blind spot zone when driving on roads and freeways. The CTA feature alerts you if a car is coming toward you when you are backing out of a parking space. NOTE: Visibility aids do not replace the need to watch where the vehicle is moving. Refer to your Owner's Guide for safety information, more detail and limitations.



### INTEGRATED KEYHEAD TRANSMITTER (IKT)

- To open: Press and release the rear portion ▼ of the control.
- To close: Press and release the front portion ▲ of the control.
- To vent: When the glass panel is closed, press and release the front portion ▲ of the control.
- To close from a venting position: Press and hold the rear portion ▼ of the control until the glass stops moving.
- To unlock the driver's door. Press again to confirm all doors are closed.
- Press ◀ once to unlock the driver's door. Press again within five seconds to unlock all doors.
- Press 🔔 to activate the panic alarm. Press again or turn the ignition on to deactivate.
- Press 🔔 twice within three seconds to open the trunk.
- Car finder: Press 🔔 twice within three seconds to locate your vehicle. The horn will chirp and the turn lamps will flash.



### SECURICODE™ KEYLESS ENTRY SYSTEM (IF EQUIPPED)

Allows you to lock or unlock the doors as well as open the trunk without a key. Ensure that you have your five digit factory code (located on your owner's wallet card in the glove box.)

### REVERSE SENSING SYSTEM (IF EQUIPPED)

The reverse sensing system may warn you if there is an object behind the vehicle that may be too low for you to see. A warning tone will sound which increases in frequency as the object gets closer and then will sound continuously when the object is less than 10 inches away. The system is active when the vehicle is in Reverse (R) and traveling less than 3 mph (5 km/h). NOTE: Visibility aids do not replace the need to watch where the vehicle is moving. Refer to your Owner's Guide for safety information, more detail and limitations.

### AMBIENT LIGHTING

Press ☀ repeatedly to turn the feature on, cycle through your color options and turn the feature off. When activated, the foot well areas, cup holders and center console bin illuminates with the chosen color.



### MOON ROOF (IF EQUIPPED)

Your moon roof is equipped with an automatic one-touch express opening, closing and venting feature.

## ESSENTIAL Information

### EASY FUEL™ FUEL SYSTEM

With this system, you simply open the fuel filler door, insert the nozzle and begin fueling. Wait five seconds from the time the refueling nozzle is shut-off until the nozzle is pulled back out of the fill pipe to allow residual fuel in the nozzle to drain into the tank. It is self-sealing and therefore protected against dust, dirt, water, snow and ice. To use a portable fuel container, slowly insert the fuel funnel (attached to the underside of the spare tire cover or included with the tire changing tools), and pour the fuel into the funnel. When done, clean the funnel or properly dispose of it. Extra funnels can be purchased from your authorized dealer. Do not use aftermarket funnels as they will not work with the Easy Fuel™ system and may cause damage.

### FUEL TANK CAPACITY/FUEL INFO

Your vehicle has a fuel tank capacity of 17.5 gallons (66.2L). Use only 'Regular' unleaded gasoline with an octane rating of 87. Do not use E85 fuels because your vehicle was not designed to run on fuels with more than 10% ethanol.

### LOCATION OF SPARE TIRE AND TOOLS

Your spare tire and tools are located in the trunk, under the floor panel. The spare tire is designed for emergency use only and should be replaced as soon as possible. For complete details on how to change your tire, refer to the Roadside Emergencies chapter in your Owner's Guide.

### TIRE PRESSURE

Check your tire pressure at least once a month and before long trips (including spare, if equipped). The recommended specifications are on the Safety Compliance Certification Label or Tire Label located on the B-Pillar or the edge of the driver's door. As an added safety feature, your vehicle has been equipped with a tire pressure monitoring system (TPMS) that illuminates a low tire pressure warning light (⚠) when one or more of your tires is significantly under-inflated. Refer to the Tires, Wheels and Loading chapter in your Owner's Guide for more information.

### ROADSIDE ASSISTANCE

Your new hybrid comes with the assurance and support of 24-hour emergency roadside assistance. Roadside assistance includes such services as: lockout assistance, limited fuel delivery, battery jump starts, changing a flat tire, towing and winch out. To receive roadside assistance in the United States, call 1 (800) 241-3673. In Canada, call 1 (800) 665-2006.

### SOS POST-CRASH ALERT SYSTEM™

This system provides audible and visual alarms when a crash causes the deployment of airbags or the activation of the safety belt pretensioners. The turn signals will flash and the horn will sound. To deactivate, press the hazard flasher control, or 🔔 on your remote transmitter.

## 2011 QUICK REFERENCE GUIDE

LINCOLN MKZ  
HYBRID