

# Ford Tech Tips

Technical Knowledge for Ford Service Professionals



FORD PARTS

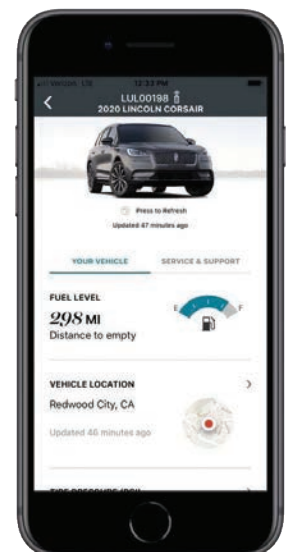
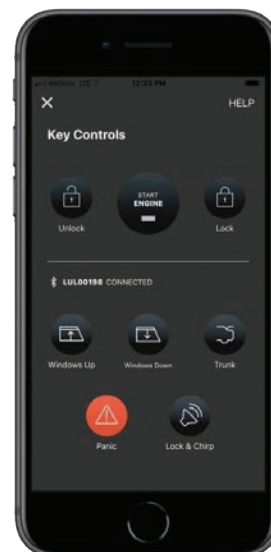
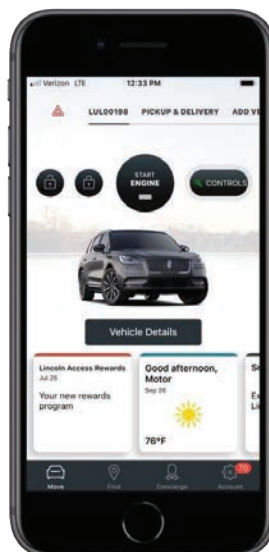
## Lincoln Aviator Luxury SUV Phone As A Key, Dramatic Styling and Strong Power Options

Keeping up with changing automotive technology is a full-time job. Seeing what's being introduced by OEMs now can help prepare you for knowing what training you'll need to plan for down the road. Take a look at some of the high-tech features on the 2020 Lincoln Aviator luxury SUV. This is the kind of technology we're sure to be seeing more of in the service bay in the years ahead.

The new Lincoln Aviator combines advanced technology, cutting-edge styling and strong power options to aim for leadership in the luxury SUV segment. The three-row seating Aviator, along with its sibling, the compact Lincoln Corsair, has introduced the available Phone As A Key technology to enable using a smartphone to gain access and start the vehicle, eliminating the need for regular use of the key fob.

And Aviator is a looker. Timeless, commanding design and intentional horizontal lines with a sloping roof create a streamlined feel and sense of power and motion. From opulent seating to excellent accessories, technological advancements and turbocharged power, the total Aviator package demonstrates the Lincoln marketing theme: Quiet Flight. This is a strong, significant car meant to turn heads and reward the driver with mile after mile of pleasant, secure motoring.

**Dramatic styling and advanced technology mark the 2020 Aviator, raising the bar in luxury SUVs. The available Phone As A Key, powerful turbo V6 with hybrid system and advanced driver-assist features highlight the new vehicle's superior package.**



**Either an iPhone or Android system smartphone can be set up to access the Aviator.**



Lincoln aims to put Aviator drivers in a class by themselves with elegant seating and appointments. Worth sitting in even if the vehicle is just in the driveway!

### Phone As A Key does away with using key fob

Phone As A Key works effortlessly to help drivers by using their personal smartphone as a key. Using the available Lincoln Way™ app allows the driver to program his or her phone to act as the key to the Aviator (or sister SUV Lincoln Corsair) through a Bluetooth® connection. The programmed phone will allow entry into the vehicle as well as starting and driving it away on command when the driver approaches the vehicle. No need to take the key fob along, and if the phone runs out of power, the driver can simply enter backup codes to gain access, start and drive the vehicle.

Owners will get a standard key fob with the vehicle, but most will opt for the Lincoln app-based, optional Phone As A Key system.

### Low energy Bluetooth connection makes system work

Lincoln uses a Bluetooth Low Energy (BLE) connection to link smartphones to SUVs. BLE is a short-range communication system that sacrifices high data speeds for long battery life. As with a proximity key, the Aviator recognizes a linked phone, then unlocks when the door handle is touched. It then starts via push button when the phone is physically in the vehicle. Walk away from the Aviator, and it will automatically lock.

Within about 130 feet, drivers can use their smartphone to remotely start and warm up their cars, raise the rear lift gate or open and close windows. Smartphones link through Bluetooth to the BLE module inside the car. The module is a logic processor



The elegant cockpit ensures first class comfort on the road. Aviator Black Label model shown.

The programmed smartphone takes over from the key fob for vehicle access and starting. More vehicle operations from the phone are available as the driver approaches the vehicle and moves into range.



The programmed smartphone helps give the driver immediate access and entry to his or her vehicle within prescribed distances.



The big, 10.1-inch screen on the center console keeps the driver informed while driving.

ted to 18 sensors that locate the phone through triangulation. Owners can use the available Personal Profiles that automatically preps the vehicle to their liking, offering up to 80 presets for seats, climate control, audio system, mirrors and the steering column.

To ensure backup capability, the Aviator and Corsair integrate flush-mounted, numeric touchpads on the driver's side roof pillars. If a phone goes dead or the cellular connection fails to operate, the driver inputs a code in the numeric touchpad to get in, then another code in the interior touchscreen to start the engine. The touchpad on the driver's side pillar allows an attendant to access the vehicle by inputting the first five digits in keypad entry, while driver's entire eight-digit passcode is used to start and drive the vehicle. The new Lincoln Aviator also integrates an available wireless charging pad for compatible smartphones, keeping a personal device from running out of power.

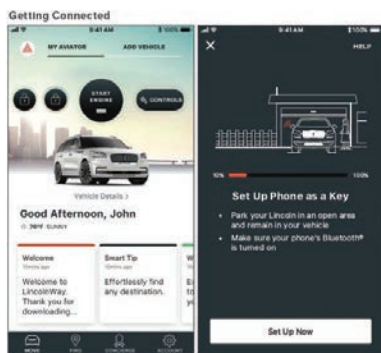
### Lincoln Co-Pilot360™ driver-assist features aid confident driving

The Aviator Lincoln available Lincoln Co-Pilot360 Plus package bundles several highly valuable advanced driver-assist technologies<sup>1</sup>, including:



Highly useful vehicle system and driving info is shown right in front of the driver, on the windshield in the available head-up display.<sup>2</sup>

With the Lincoln Way™ app, either an iPhone® or Android™ system smartphone can be set up to access the Aviator.



<sup>1</sup>Driver-assist features are supplemental and do not replace the driver's attention, judgement and need to control the vehicle. It does not replace safe driving. See Owner's Manual for details and limitations.



Blind Spot Detection helps warn the driver of vehicles in his or her blind spots, potentially preventing the driver from turning into an unseen vehicle. This is a Continental interior image.



Onboard cameras present the driver with an available 360-degree view of the vehicle's surroundings. This is a Nautilus interior image.



The compact two-row Lincoln Corsair shares the great look and many features as the Aviator, in a smaller, shorter version .

<sup>2</sup>Don't drive while distracted. See Owner's Manual for details and system limitations.

- Evasive Steering Assist
- Reverse Brake Assist
- Active Park Assist Plus
- Adaptive Cruise Control with Traffic Jam Assist

Traffic Jam Assist combines Stop-and-Go, Lane Centering and Speed Sign Recognition.

Newly developed Speed Sign Recognition helps drivers stay out of trouble from a heavy foot on the accelerator.

Ready to take on the road, Aviator offers strong powertrain options with its standard twin-turbocharged 3.0L V6 engine generating 400 horsepower and 415 lb.-ft. of torque<sup>3</sup>. The available Aviator Grand Touring model combines the twin-turbocharged 3.0L V6 gasoline engine with Lincoln electric hybrid powertrain to deliver greater power plus better gas mileage on long-distance driving. The combined gas and hybrid electric systems create 494 horsepower and 630 lb.-ft. of torque<sup>3</sup>, and the hybrid powertrain can be charged at home or at charging stations throughout the country, helping enable driving in a quiet and smooth all-electric mode.

Want a softer ride? Aviator can also replace traditional hard coil springs with air bladder springs in its available Air Glide Suspension, which can be inflated and deflated to suit the ride to the driver's selection. This system also allows the vehicle to "kneel" down to greet the driver on approach, and raise and lower in specific drive modes.

### Compact Corsair uses Integral Bush Rear Suspension

The rear drive, three-row Aviator is basically built on the Ford Explorer<sup>3</sup> chassis and offers all-wheel drive as an option, engaging the front and rear wheels when selected. The compact two-row Lincoln Corsair is basically on the front wheel drive Ford Escape chassis and offers optional all-wheel drive engaging both front and rear wheels when selected. Also available on the Corsair is the same Phone As A Key and Lincoln Co-Pilot360™ driver-assist features as the Aviator.

Instead of air suspension, Corsair makes available an optional adaptive suspension system using a Integral Bush Rear Suspension that contributes to a smooth ride, much like a larger SUV. Along with the same dramatic styling as the Aviator, the compact Corsair — from behind the wheel — gives the feeling of driving a larger SUV. >

<sup>3</sup>Horsepower and torque ratings based on premium fuel per SAE J1249® standard. Your results may vary.



# Ford Tech Tips

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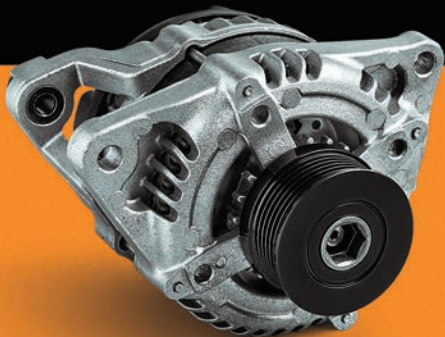
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