

# 2014 Toyota Land Cruiser is the Luxurious Descendant of A Proud 50-Year Off-Road Heritage

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TORRANCE, Calif., Sept. 16, 2013 – A constant in Toyota's U.S. model lineup for more than 50 years, the Land Cruiser has evolved from a simple off-road utility vehicle into a premium-luxury, full-capability SUV with seating for up to eight and advanced chassis systems. A rare combination of power, room, towing capacity and Toyota reliability explain the Land Cruiser's extremely loyal following.

The Land Cruiser received exterior and interior design enhancements for 2013 and made all previously optional features standard. The customer has only to select exterior and interior colors.

## **Performance**

Land Cruiser's 5.7-liter V8 DOHC engine produces 381 horsepower at 5,600 rpm and 401 lb-ft of torque at 3,600 rpm. With 90-percent of peak torque available at just 2,200 rpm, the engine makes the Land Cruiser an outstanding tow vehicle. Towing capacity is 8,500 pounds. The Land Cruiser uses regular-grade (87 AKI) gasoline and is ULEV-II certified.

The engine's advanced dual independent Variable Valve Timing with intelligence (VVT-i) system controls valve timing and overlap on both the intake and exhaust valves. An Acoustic Control Induction System (ACIS) switches the length of the intake tract in two stages, based on RPM and throttle angle, to optimize torque across the engine speed range. A water-cooled oil cooler helps control oil temperature while towing.

The six-speed automatic transmission is designed to handle high torque while performing with luxurious smoothness. The transmission's control unit estimates road conditions to select the appropriate gear ratio for the vehicle's speed and driving conditions. A sequential shift mode allows the driver to select gears manually.

## **Capability, Handling and Ride**

The Land Cruiser's body-on-frame construction provides rugged durability in extreme driving conditions, plus impressive ride isolation characteristics. The front of the frame features a three-stage crush structure, so in the case of frontal impact, frame damage to other areas of the vehicle is minimized. Underbody panels are designed to protect the engine and transmission and to help the vehicle traverse rocky terrain smoothly. These underbody panels also smooth the airflow under the vehicle to help minimize drag and turbulence.

The high-mount double-wishbone front-suspension provides a high level of off-road driving capability and suspension articulation while maintaining outstanding on-road driving comfort. Approach and departure angles are 30 degrees and 20 degrees, respectively. At the rear, the reliable and proven four-link, coil-spring with lateral-rod format provides a long suspension stroke.

A key to Land Cruiser's uncanny combination of off-road capability and on-road ride comfort is found in the Kinetic Dynamic Suspension System (KDSS), which hydraulically adjusts the lean resistance provided by the front and rear stabilizer bars.

Using hydraulic cylinders acting on each stabilizer bar, linked by a pressure-sensing valve, KDSS reduces the degree of sway stiffness provided by the stabilizer bars in response to changing road conditions and driver inputs. In off-road driving situations, KDSS allows the wheels on each axle to move with a larger degree of side-

to-side independence, helping to minimize any tendency for wheel lift. During on-pavement cornering, when both front and rear cylinders are compressed, no fluid is flowing in the system, and the stabilizer bars work conventionally to help reduce body lean by as much as 50 percent.

### **High-Capability 4WD and More Control in the Driver's Hands**

The Land Cruiser is equipped as standard with a highly capable full-time four-wheel drive system, supported by an array of advanced chassis control technologies, to enable travel over rugged trails.

The lightweight, compact transfer case provides full-time four-wheel drive with a low-range 2.618:1 ratio for traversing challenging driving surfaces, such as steep inclines. A TORSSEN<sup>®</sup> limited-slip locking center differential distributes power 40:60 front-to-rear, directing more power to the wheels with the best grip should slippage occur. Traction control (TRAC) employs both brake and throttle intervention to help control wheel spin. Vehicle Stability Control (VSC), with a cut-off switch, helps maintain directional control during cornering.

With the Land Cruiser's Multi-terrain Select system, the driver can select the terrain and the system will control wheel slip to match the terrain. In loose terrain such as mud and sand, more-than-normal wheel slip is permitted, allowing wheel-spin to work in the vehicle's favor. On bumpy moguls, or solid rock, wheel slip is minimized and the system acts more like a limited slip differential. The Mogul setting is for any extremely uneven terrain, such as V-ditches, slopes, and ridges, uphill or down.

A five-setting CRAWL Control with an Off-Road Turn Assist feature helps make traversing difficult terrain easier. With the transfer case shifted into low range, CRAWL Control regulates engine speed and output, along with braking force, to propel the vehicle forward or reverse at one of five driver-selectable low-speed settings. With CRAWL operating, the driver can then maintain focus on steering over extremely rough level ground or steep grades, without having to modulate the throttle or brake pedals.

The Off-Road Turn Assist feature applies slight brake pressure to the inside rear wheel, creating a pivot point and helping the vehicle make tighter turns when maneuvering through tight quarters on rugged terrain.

Downhill Assist Control (DAC) is designed to augment the low-speed descending ability of low-range by helping to hold the vehicle to a target speed with practically no driver intervention. Hill-start Assist Control (HAC) provides additional control for off-road driving by helping to keep the vehicle stationary while starting on a steep incline or slippery surface.

Land Cruiser rides on P285/60 R18 mud-and-snow tires mounted on 18 x 8.0-inch aluminum alloy wheels with a high-gloss finish (including a full-size spare). The brake system employs 13.4-inch ventilated discs with four-piston calipers up front and 13.6-inch ventilated discs at the rear. Variable gear ratio power-assisted rack-and-pinion steering requires just 3.1 turns lock-to-lock. The Gear ratio is set larger around the steering center and smaller around the end position.

The Land Cruiser is equipped with a towing connector and sub-wiring harness to connect a commercial trailer-brake controller. Standard Trailer Sway Control uses the Vehicle Stability Control (VSC) to help counteract handling forces applied to the truck in an effort to minimize the impact of trailer sway.

### **Versatility and Impeccable Luxury – All Standard**

Land Cruiser seats up to eight, with three-across seating in the second and third rows. Interior luxury remains impeccable in the Land Cruiser, with perforated leather trim, heated/ventilated front seats and a heated steering wheel with power tilt and telescoping with memory.

Beneath the bright Optitron instrument gauges, a multi-informational display shows gear selection, odometer,

tripmeter, fuel consumption, individual tire pressures and cruising range. The center console features a cooler box, USB port and cup holders.

Middle-row seating is luxurious and versatile, with perforated leather trim and multi-stage heating. The 40/20/20 split is combined with a reclining feature and a one-touch tumble mechanism for easier third-row ingress and egress. The second-row seats slide forward and aft 4.1 inches for more passenger comfort and cargo storage versatility. Maximum cargo capacity is 81.7 cubic feet with the middle and rear seats folded.

With 28 total air vents, the four-zone automatic climate control system is designed to bathe occupants in comfortable air — even during extreme heat — rather than simply projecting streams of cool air. For extreme cold situations, the Land Cruiser's auxiliary Positive Temperature Coefficient (PTC) heater warms air instantly by passing it over an electrically heated ceramic element. The system also includes a micro-dust and pollen filter, and seven-level blower control.

Other standard features include rear privacy glass, Smart Key keyless entry with push-button start that allows the driver to unlock or start the vehicle without inserting a conventional key; anti-theft security system; engine immobilizer; cruise control; power moonroof; auto-dimming rearview and side mirrors; HomeLink® universal garage-door/gate opening system and steering wheel-mounted audio controls.

## **Safety**

The Land Cruiser body structure makes extensive use of high-strength sheet steel, especially in the A-, B-, C- and D-pillars, and in the rocker area. Like all Toyotas, the Land Cruiser comes standard with the STAR Safety System™. A four-wheel multi-terrain anti-lock braking system (ABS) automatically selects the optimal ABS profile to provide the most suitable brake force for on- and off-road driving surfaces. Electronic Brake-force Distribution (EBD) balances braking forces between the front and rear brakes, while Brake Assist (BA) provides auxiliary force to assist the driver during emergency braking.

Active Traction Control (A-TRAC) helps maintain traction during acceleration by controlling engine output and braking forces to the wheels. Vehicle Stability Control (with a cut-off switch) helps maintain directional control during cornering by manipulating engine torque and individual wheel-braking influence if it detects tire slippage.

Land Cruiser features 10 standard airbags: driver and front passenger Advanced Airbag System; driver and front passenger knee airbags; driver and front passenger seat-mounted side airbags, second-row outboard seat-mounted side airbags and three-row Roll-sensing Side Curtain Airbags (RSCA) with a roll-sensing cutoff switch. All eight seating positions feature three-point seatbelts.

Active headrests on the driver and front passenger seats move up and forward almost instantly in the event of certain rear-end collisions to help reduce the distance between the occupant's head and the headrest. The advanced seatbelt system is designed to retract the front seatbelts when the brakes are suddenly applied or when tire slippage is detected by the VSC system.

A direct tire pressure monitor system (TPMS) helps to alert the driver to severe pressure drops in any of the tires, including the full-size spare. The standard parking sonar system uses ultrasonic sensors on the front and rear bumpers to sense obstacles.

The standard Pre-Collision System is designed to detect other vehicles and obstacles in its path and help optimize the restraining performance of the front passenger seatbelts if a collision is imminent.

The Land Cruiser comes standard with the Safety Connect™ telematics system. Available by subscription (first

year of service is included in the new vehicle purchase price), Safety Connect offers four safety and security features: Automatic Collision Notification, Stolen Vehicle Location, Emergency Assistance Button (SOS), and enhanced Roadside Assistance, which adds GPS data to the already-included warranty-based Toyota roadside service.

In case of either airbag deployment or severe rear-end collision; Automatic Collision Notification is designed to automatically call the response center. If the response agent cannot communicate with the occupants, the agent can contact the nearest emergency-services provider to dispatch assistance.

Pushing the “SOS” button can summon help in an emergency and for a wide range of roadside assistance needs. If a Land Cruiser equipped with Safety Connect is stolen, the system can help local authorities locate and recover the vehicle once a stolen vehicle report is filed.

### **Premium Audio with Entune®**

Land Cruiser comes standard with Toyota’s Premium HDD Navigation system with Entune® and JBL®. The system includes an eight-inch touch/split-screen with an integrated backup camera display, AM/FM CD player with MP3/WMA playback capability, 14 JBL speakers including subwoofer, SiriusXM® Satellite Radio capability (includes three-month trial subscription to XM Select Package); HD Radio™ with iTunes® Tagging, USB port with iPod® connectivity and control, vehicle information, hands-free phone capability, phone book access, advanced voice recognition, and music streaming via Bluetooth® wireless technology.

Toyota’s Entune multimedia system leverages the user’s mobile smartphone to provide a richer in-vehicle experience with fully integrated access to navigation, entertainment and information services. Entune provides support for engaging mobile apps, such as Bing™, OpenTable®, and MovieTickets.com, along with accessing useful travel-related services, such as live weather, traffic, fuel information (location and price), stocks, and sports. Entune brings an immense selection of music options into the vehicle, including iHeartRadio’s 750+ stations, and Pandora’s® personalized music service (access to Entune services is subscription free).

### **Limited Warranty**

Toyota’s 36-month/36,000 mile basic new-vehicle warranty applies to all components other than normal wear and maintenance items. Additional 60-month warranties cover the powertrain for 60,000 miles and corrosion with no mileage limitation. Toyota dealers have complete details on the limited warranty.

The Land Cruiser also comes standard with Toyota Care, a complimentary plan covering normal factory-scheduled maintenance and 24-hour roadside assistance for two years or 25,000 miles, whichever comes first.

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NOTE TO EDITORS: Photos to accompany this story are available and can be retrieved in digital form by media without charge at <http://www.toyotaneewsroom.com>.