



## News Release

September 18, 2007

## Toyota Launches Fully Redesigned 'Land Cruiser' in Japan

Tokyo — TOYOTA MOTOR CORPORATION (TMC) announced today the launch in Japan of the completely redesigned "Land Cruiser" full-size, top-of-the-line SUV.



Land Cruiser "G Selection" (with options)

The new Land Cruiser, designed under the theme "The King of Four-Wheel Drives", features a new platform and suspension, 4.7-liter V8 engine with VVT-i (Variable Valve Timing-intelligent) and new technologies that enhance all-around driving performance. As a result, the Land Cruiser's traditional durability, reliability, off-road performance and other basic functions have been raised to a new level.

In addition, VSC (Vehicle Stability Control), SRS (Supplemental Restraint System) side and curtain shield airbags and a newly developed Active Headrest—all standard—combine with an optional advanced Pre-crash Safety System to achieve safety performance at the highest levels in its class.\*

\*Compared to four-wheel drive SUVs of similar engine displacement

### Sales Outline

<b>Sales channels</b>	"Toyota" dealers nationwide in Japan ("Osaka Toyopet" dealers in the Osaka area)
<b>Monthly sales targets in Japan</b>	700 units

### Assembly Plant:

Tahara Plant, Toyota Motor Corporation  
Yoshiwara Plant, Toyota Auto Body Co., Ltd.

### Manufacturer's Suggested Retail Prices

(Prices in Hokkaido and Okinawa differ; unit: yen)

Grade	Engine	Transmission	Powertrain	Price <sup>1</sup> (including consumption tax)
AX	2UZ-FE (4.7 liter)	5 Super ECT <sup>2</sup>	Four-wheel drive	4,700,000
"G Selection"				5,400,000

1. Prices listed do not include recycling fees.

2. Super Intelligent, Electronically-controlled, Five-speed Automatic Transmission

### Vehicle Outline

#### Advanced Basic Performance

- The Land Cruiser's completely redesigned platform retains a full frame structure ensuring strength and durability with approximately 1.4 times greater torsional rigidity and approximately 1.2 times greater flexural rigidity. This also serves to increase collision safety while reducing on-road noise and vibration, contributing to enhanced interior

comfort.

- The suspension provides outstanding handling and cruising stability both on-road and off-road, making for a comfortable ride. A newly developed coil spring, high-mounted, double wishbone suspension in front replaces the previous torsion bar type, while the rear suspension retains the acclaimed four-link type, with optimized control arm placement and tuning.
- The 4.7-liter 2UZ-FE V8 gasoline engine features VVT-I, raising the compression ratio (from 9.6:1 to 10.0:1) and maximum engine speed (from 4,800rpm to 5,400rpm), substantially increasing output (up 39kW [53PS]) to provide driving performance with power to spare.
- The 5 Super ECT (Super Intelligent, Electronically-controlled, Five-speed Automatic Transmission) Sequential Shiftmatic transmission allows the driver to enjoy a manual-transmission-like sensation.
- To match the substantial increase in engine output, the front and rear ventilated-disc brakes are a larger 17 inches (compared to a previous 16 inches) and feature outstanding anti-fading performance.

#### **New Technologies and Equipment that Enhance All-around Driving Performance**

##### 'Crawl Control' System

- The world's first\* "crawl control" system is standard on all models. When driving on surfaces that require delicate speed adjustments such as on rocks or sand and on steep hills, the engine and brakes are automatically controlled to maintain a very low speed, minimize wheel spinning and locking, and provide outstanding vehicle stability. The system maintains vehicle speed at approximately 1km/h to 5km/h, and three speed settings can be selected by the simple turn of a dial. This allows the driver to focus on steering and is also effective at helping the driver get the vehicle out when it becomes stuck.

\* As of August 2007, as surveyed by TMC

##### Kinetic Dynamic Suspension System (KDSS)

- Japan's first\* kinetic dynamic suspension system—standard on the "G Selection" model—uses hydraulics to optimally control the front and rear stabilizers depending on the driving conditions, providing excellent vehicle stability for on-road driving through the use of the stabilizers and outstanding off-road performance by disabling the stabilizers off-road for greater suspension stroke.

\* As of August 2007, as surveyed by TMC

##### Torsen® LSD\*

- The center differential built into the transfer unit of the full-time all-wheel drive system is a newly developed Torsen® LSD (standard on all models). During normal cruising, the Torsen® LSD distributes drive power to the front and rear based on a 40/60 split that favors the rear wheels, but can also instantaneously change a 50/50 split to a 30/70 split in drive power distribution to match road conditions. This delivers outstanding vehicle stability as well as smooth starting, acceleration and cornering on all road surfaces.

\* "Torsen" is a registered trademark of JTEKT Corporation; Torsen LSD stands for "torque sensing limited slip differential."

##### Multi-terrain ABS

- A newly adopted multi-terrain ABS (Anti-lock Brake System)—standard on all models—provides excellent braking performance even on dirt roads, gravel and sand.

##### HAC

- The newly adopted HAC (Hill-start Assist Control)—standard on all models—minimizes vehicle roll-back when starting on steep hills or climbing slippery surfaces by controlling brake fluid pressure as the driver's foot is removed from the brake to the accelerator.

#### **Class-leading Safety Performance**

- The Land Cruiser adopts an advanced GOA (Global Outstanding Assessment) collision-safety body that has been improved to meet stricter-than-normal conditions by incorporating the concept of omni-directional compatibility. Through the use of a body that effectively absorbs collision impact by diffusing it throughout its structure, Toyota satisfied all independent targets for survival space and occupant injury.
- Improvements in the body structure further reduce the likelihood of pedestrian head injuries in an effort to achieve one of the highest levels of injury prevention in this vehicle class.
- In addition to VSC, dual-stage SRS airbags for the driver and front passenger seat, SRS knee airbags for the driver and front passenger seat, SRS side airbags for the driver, front passenger and second-row seats and SRS curtain shield airbags that cover the front through to the third-row seats, are standard on all models.
- Also adopted as standard equipment is an Active Headrest for the driver and front passenger seat, which shifts to an appropriate position in order to lessen the stress on the neck and reduce the risk of whiplash injury sustained during a rear-end collision.
- The advanced Pre-crash Safety System employs near simultaneous responses to sudden braking (standard on the "G Selection" model) and millimeter wave radar (optional on the "G Selection" model).

### Outstanding Environmental Performance

- With engine output significantly increased, efforts were made to improve fuel efficiency to reduce CO<sub>2</sub> emissions. The new Land Cruiser boasts a fuel efficiency of 6.6km/l in the 10-15 test cycle outlined by the Japanese Ministry of Land, Infrastructure and Transport (MLIT) with CO<sub>2</sub> emissions under the test cycle just 352g/km, achieving the level called for by the Japanese 2010 standards\*. Both NO<sub>x</sub> (nitrogen oxides) and NMHC (non-methane hydrocarbons) have also been reduced, meaning all vehicles have emissions levels 50% lower than the 2005 standards under MLIT's Approval System for Low-emission Vehicles.
- Toyota employed Eco-VAS (Eco-Vehicle Assessment System)—its original comprehensive environmental impact assessment system—to efficiently achieve overall reduction of environmental impact throughout the vehicle's entire lifecycle.
- A review of the materials, processing methods and adhesives used for interior parts resulted in a reduction in the amount of VOCs (volatile organic compounds) used, thereby also reducing the unpleasant odors emitted from such compounds and achieving the Japanese automobile industry's voluntary goals.

\* Specified by the Japanese Law Concerning the Rational Use of Energy

### New Equipment that Enhances Comfort and Security

- In anticipation of operation under extreme weather conditions, air conditioning performance has been enhanced by adopting fully automatic independent temperature controls for four areas (the driver and passenger side and the front and rear) as standard on all models and a pollen removal mode that filters out pollen, dust and other impurities from the air.
- An optional 30GB high-capacity HDD navigation system with a high-resolution 8-inch wide display is compatible with the advanced "G-BOOK ALPHA Pro" telematics service and offers Bluetooth-compatible hands-free telephone communication<sup>1</sup> and numerous other multimedia functions. The audio/visual system includes an integrated AM/FM radio with an in-dash, six-disc DVD/CD changer with MD player and nine speakers. The NAVI-AI2 Shift Control System uses road information from the navigation system for optimal gear shift control.
- The Smart Entry & Start System is standard on all models and uses a key that does not need to be removed from the driver's pocket to lock and unlock the doors, as well as a push button for starting the engine.
- The redesigned total package increases the interior length by 175mm.
- The redesigned seats achieve greater comfort as well as functionality. The heated front seats feature free temperature control (standard on the "G Selection" model) compared to two temperature settings previously. The second-row seats (6:4 split) have a 105mm slide function and new reclining backrests that fold in a 4:2:4 split. The authentic leather ("G Selection" model) second-row left and right seats are heated. The third-row seats (5:5 split) offering an "extra space" function that lifts the seats up and folds them away with just a single touch.
- An antitheft system with enhanced security functions—standard on all models—features an engine immobilizer system and an auto alarm function fitted with an intrusion sensor and tilt sensor.

1. Bluetooth is a registered trademark of Bluetooth Sig, Inc.

2. Navigation/Artificial Intelligence Shift Control System

### Interior and Exterior Designs that Convey the Reliability of the Land Cruiser

- The interior and exterior designs were created based on the Toyota brand design philosophy "Vibrant Clarity". The Land Cruiser identity is maintained with an exterior design that seeks to combine reliability with a sense of advancement, while the interior boasts the advanced features of a full-scale four-wheel drive vehicle and a sense of quality and precision to express dependability.
- The front view is a modern expression of the traditional Land Cruiser look. The increased vertical thickness expresses the powerful structure and character of a high-end SUV.
- The side view emphasizes solidity with a strong horizontal axis, while a new form that merges the front and rear fenders into the body emphasizes the presence of the wheels and expresses dynamism and advancement.
- The rear view features combination taillights that project from the body and a bumper integrated with the body to convey a wide feel and sense of stability.
- The largely horizontal instrument panel creates a sense of expansiveness in the cockpit and allows the driver to easily determine any tilting of the vehicle.
- The center cluster expresses strength with holding bars on its sides that have the quality of sculpted metal.
- The steering wheel features a stability-exuding design characterized by its large pad, while large switches embedded in metallic bezels achieve both functionality and a sense of quality.
- Two new body colors—a dynamic and glossy Gold Mica Metallic and a high-gloss Green Mica Metallic—have been added for a total of seven colors.

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