



## Toyota Land Cruiser



**Technical Specs:** All Technical Specs are before vehicle armoring

### Engine

Standard Engine	4.7L V8 (2005 Model) 4.5L V6 or 4.0 V6
Standard Transmission	5 Speed Automatic / Manual
Cylinders	8 / 6
Horsepower @ RPM	235@4800
Fuel Economy Cty/Hwy	13 / 17
Combined Fuel Economy	14
EPA Class	Four Wheel Drive SUV
Number of Valves	32
Torque @ RPM	320@3400
Fuel Type/System	Gas Engine / Electronic Fuel Injected / Diesel Engine
Turbo (yes/no)	No
Overdrive Transmission	Yes
Battery Output	N/A
Compression	9.6



**Engine Continued**

Displacement	4664 / 285
Bore X Stroke	3.70x3.31
Cruising Range	355.6
Final Drive Gear Ratio Opt	N/A
Power To Weight Ratio	22.9
Final Drive Ratio	4.10
Valves Configuration	Dual Overhead Cam/Twin Overhead Cam
Supercharged	No
Electric HorsePower RPM	N/A
Electric Torque Feet Per Pound	N/A
Electric Torque RPM	N/A
Electric HorsePower BHP	N/A

**Capacity & Volume**

Cargo Volume (EPA)	N/A
Cargo Volume (MFR)	20.8
Fuel Capacity	25.4
Passenger Volume (EPA)	N/A
Passenger Volume (MFR)	135.2
Box/Cargo Height	42.7
Box/Cargo Length	46.3
Box/Cargo Width (Wheel)	42.6
Box/Cargo Width (Wall)	58.1
GVWR Standard	6860
GVWR Maximum	6860
Payload Standard	1470
Payload Maximum	1470

**Brakes, Steering, Suspension & Tires**

Brakes (Front)	Disc
Brakes (Rear)	Disc
Driveline	Four Wheel Drive Full Time
Driveline (Opt)	N/A



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## Brakes, Steering, Suspension & Tires Continued

Steering	Rack & Pinion
Steering Diameter Left	39.7
Steering Diameter Right	39.7
Suspension (Front)	Independent
Suspension (Rear)	Live
Tire Type	Passenger
Tire Width	275
Tire Aspect Ratio	60
Tire Construction	Radial
Tire Wheel Diameter	18

## Interior Dimensions

Seating (Standard)	8
Seating (Optional)	N/A
Tow Capacity (Standard)	6500
Tow Capacity (Maximum)	6500
Headroom (Front)	39.2
Headroom (Row 2)	39.1
Hiproom (Front)	58.6
Hiproom (Row 2)	57.9
Legroom (Front)	42.3
Legroom (Row 2)	34.3
Shoulder Room (Front)	62.4
Shoulder Room (Row 2)	61.2
Seating (Maximum)	8
Headroom (Row 3)	36.4
Hiproom (Row 3)	56.3
Legroom (Row 3)	27.3
Shoulder Room (Row 3)	61.2

## Exterior Dimensions & Weight

Curb Weight MT	N/A
Curb Weight AT	5390
Ground Clearance	9.8



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### Exterior Dimensions & Weight Continued

Height	73.2
Length	192.5
Top Type (Standard)	Hard Fixed
Top Type (Optional)	Not Applicable
Track (Front)	63.8
Track (Rear)	63.6
Weight Distribution AT (Front)	53
Weight Distribution AT (Rear)	47
Weight Distribution MT (Front)	N/A
Weight Distribution MT (Rear)	N/A
Wheelbase	112.2
Width	76.4
Doors (Standard)	4
Doors (Maximum)	4

### Origin

Manufactured in	Japan
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### Standard Features:

#### Transmission

- 5-Speed Electronically Controlled Adaptive Automatic Transmission With Overdrive
- Adaptive Automatic Transmission

#### Steering

- Power Telescopic Steering Column
- Power Variable Assisted Rack and Pinion Steering
- Power Tilt Steering Column

#### Suspension

- Independent Double Wishbone Front Suspension With Torsion Bar Springs
- Live Multi-Link Rear Suspension With Coil Springs
- 24-mm Rear Stabilizer Bar



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### Electrical

- 130-Amp Alternator
- 1 Cargo Area Power Outlet
- Front Cigarette Lighter With Ashtray
- 64-Amp/Hour Battery
- Delayed Power Retention Operates Power Windows
- 2 Front Power Outlets, 1 Integrated With Cigarette Lighter

### Braking & Traction

- Full-Time 4-Wheel Drive
- Automatic Locking Hubs
- 2-Speed Transfer Case
- All-Speed Traction Control Controlled By ABS and Engine Management
- All-Speed Vehicle Stability Control System Operated Via ABS Traction Control and Engine Power Reduction Measures Steering Wheel Angle/Direction and Wheel Speed
- Center Locking Differential
- 4-Wheel Anti-Lock Brakes
- Front Power 310-mm Ventilated Disc and Rear Power 328-mm Ventilated Disc Brakes
- Electronic Brake Assistance
- Electronic Brake Force Distribution

### Safety

- Driver Airbag With Dual Stage Deployment
- Front Passenger Airbag With Dual Stage Deployment
- Front Passenger, Second Row and Third Row Outboard Automatic Locking Retractors
- Emergency Fuel Shut-Off Device
- Front and Rear Crumple Zones
- Front and Second Row Seatbelt Height Adjusters
- Second Row 3-Point Center Seatbelt
- Front, Second and Third Row Outboard 3-Point Seatbelts With Third Row 2-Point Center Seatbelt
- Front Pretensioners With Force Limiters
- Side Guard Door Beams

### Anti-Theft & Locks

- Radio Anti-Theft
- Child Safety Door Locks Located On Rear Doors and Cargo Door
- Power Decklid Lock/Unlock



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- Automatic Locking Power Door Locks Operated Via Key, Remote and Internal Switch
- Selective Locking/Unlocking Via Key
- Vehicle Anti-Lockout
- Vehicle Anti-Theft Via Alarm and Engine Immobilizer

### Remote Controls & Remote Releases

- Remote Fuel Door Release
- HomeLink(R) Universal Garage Door Opener
- Keyless Entry Operated Via Key Fob
- Multi-Function Remote Operates Anti-Theft, Door Lock/Unlock and Panic Alarm
- Panic Alarm

### Seats

- Front Driver Power Seat Adjusts 10 Ways Total
- Leather Seats
- Front Dual Heated Bucket Seats With Adjustable Seat Height, Folding Armrests and Manually Adjustable Headrests
- Third Row Side Folding, Reclining and Removable 50/50 Split Bench Seat With Outboard Manually Adjustable Headrests
- Theater Style Rear Seating
- Second Row Easy Entry Seat Device
- Front Passenger Power Seat Adjusts 8 Ways Total
- Front Driver Power Lumbar Support
- Second Row 60/40 Split Folding Reclining Bench Seat and Seatback Tumbles Forward With Folding Center Armrest and Manually Adjustable Headrests

### Storage

- Lockable Glovebox
- Front Dual Seatback Storage Pockets
- Overhead Console Storage
- Covered Lower Console Storage Located On Floor
- Cargo Area Tiedown Hooks
- Coinholder
- Front, Second and Third Row Cupholders, 9 Cupholders Total
- Front and Rear Dual Door Mounted Storage

### Instrumentation

- Cruise Control
- Steering Wheel Mounted Controls For Audio
- Compass



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- Exterior Temperature Gauge
- Oil Pressure Gauge
- Battery Gauge
- Digital Clock
- Warning Lights Include Oil Low, Door Ajar, Electrical System, and Low Fuel;  
Audible Warnings Include Seatbelts Unfastened
- Tachometer With 7000-RPM

### **Interior Lighting**

- Interior Load Area Light
- Delayed Courtesy Light
- Illuminated Entry For Ignition Key Surround
- Front Dual and Second Row Map Lights

### **Exterior Lighting**

- Automatic Headlights With Automatic On/Off
- Daytime Running Lights
- Front Foglights
- Halogen Headlights

### **Entertainment, Communication & Navigation**

- JBL 3-In-1 AM/FM ETR(R) Radio With 300-Watts and 7 Speakers Total;  
Autoreverse Cassette Player; 6-Disc CD Changer Integrated With Radio
- Second Row Sound Controls For Audio
- Programmable Equalizer
- Subwoofer
- Front Power Radio Antenna With Rear In-Glass Diversity Radio Antenna

### **Sunroof/Moonroof & Removable/Convertible Top**

- Front Power Glass Tilt and Slide Moonroof

### **Heating, Ventilation & Air Conditioning**

- Rear Heating and Air Conditioning Unit
- Rear Seat Heating and Air Conditioning Controls
- Automatic Climate Control
- Interior Dust Air Filter
- Rear Seat HVAC Ducts

### **Interior, Design, Decor & Floor Covering**

- Leather Steering Wheel



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- Carpet Located In Passenger Cabin and Cargo Area
- Leather Located On Shift Knob

### Doors

- Fold-Down Tailgate

### Wheels & Tires

- Alloy Wheels, 18-In. X 8-In.
- SBRP275/60R18 BSW, Mud and Snow Tires
- Underbody Tire Carrier
- Full-Size Spare Tire

### Windows, Mirrors & Wipers

- Dark Green Rear and Side Privacy Glass
- Electrochromic Interior Rearview Mirror
- Power Side Vent Window
- Dual Color-Keyed Power Adjustable Heated Folding Exterior Rearview Mirrors
- Sunshade Located On Moonroof
- Flip-Up Liftgate Window
- Front Dual Illuminated Vanity Mirrors
- Power Window Lockout/Override
- Power Windows With One Touch Up, One Touch Down and Pinch Protection For All Windows
- Rear Window Defroster
- Front Bronze Tinted Glass
- Front Dual Sunvisors
- Variable Intermittent Windshield Wipers
- Intermittent Rear Window Wiper/Washer

### Exterior, Design, Paint & Finish

- Front and Rear Color-Keyed Bumpers
- Rear Step Up Bumper
- Front and Rear Mud Guards
- Skid Plates Located On Fuel Tank and Transfer Case
- Front Air Dam
- Metallic Paint (If Selected)
- Chrome Grille



## **MAINTENANCE**

### **1.1 MAINTENANCE Package (Optional)**

#### **1.1.1 Maintenance Levels**

The System Operators or Technical Personnel are responsible for the following Maintenance tasks and include the following:

- i. Preventive Maintenance such as Inspections.
- ii. Preventive Maintenance such as Cleaning.
- iii. Preventive Maintenance such as Services.
- iv. Corrective Maintenance such as Replacement of Items with a High Failure Rate or Wear-out Rate and which can be replaced with ease.
- v. Corrective Maintenance by Replacement of LRU's (Line Replaceable Units, Assemblies, Sub-assemblies etc.) with a High Failure Probability, High Criticality and which are within the Capability.
- vi. Recovery of Equipment from the Deployment or Units to a maintenance level for Corrective Maintenance.

#### **1.1.2 Maintenance Equipment**

Available at all repair facilities

- i. Operating Equipment and Accessories.
- ii. Maintenance Equipment. (Toolboxes)
- iii. Maintenance Items.(Service Packages)
- iv. Spares as required.
- v. Support Equipment as required.
- vi. Special Support and Test Equipment as required.
- vii. Common Support and Test Equipment as required.

## **1.2 MAINTENANCE ELEMENTS**

### **1.2.1 Documentation**

The following documentation is used for vehicle Maintenance:

- i. Operators Maintenance Manual (OMM) for the Operators Maintenance Tasks.
- ii. Maintenance Schedule for the definition of all Preventive Maintenance.



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- iii. Workshop Repair Manual (WRM) for Technical Maintenance Tasks.
- iv. Illustrated Parts Breakdown (IPB) to identify Spare Parts.
- v. Illustrated Stock List (ISL) to identify Support Equipment and Spares.

### 1.2.2 Support Equipment

The following types of support equipment are used for Maintenance:

- i. Support Equipment carried in the Equipment ETS Boxes including Operating Equipment, Accessories and Maintenance Equipment.
- ii. Support Equipment as required for Preventive and Corrective Maintenance.
- iii. Support Equipment required and consists of Special Tools and Common Equipment which are within the Capability.

### 1.2.3 Spares

The following types of spares are required for Maintenance:

- i. Spares kept in the Equipment ETS Boxes.
- ii. Preventive and Corrective Maintenance Spares.

### 1.2.4 Personnel

The following operating and or technical personnel are located at all repair facilities:

- i. Auto Electricians for Vehicle and PSU Electrical.
- ii. Auto Mechanics for diesel and petrol engines.

## Armoring

Vehicle Armoring is available in all different levels depending on customer preferences. For more information on armoring levels please visit

[www.mushriquiconsulting.com/armorlev.htm](http://www.mushriquiconsulting.com/armorlev.htm)



**NIJ Level III/B6 Armored Vehicles  
Armoring SPECIFICATION SHEET**

Protection System	NATO CLASS / HIGH LEVEL
Glass Areas	44 MM BULLET-RESISTANT TRANSPARENT ARMOR, MULTI-LAYER GLASS AND POLYCARBONATE INNER LAYER
Glass Appearance	GLASS IS CURVED AND CONTOURED TO RETAIN THE APPEARANCE OF THE ORIGINAL GLASS. ALL TRANSPARENT AREAS IS ARMORED TO LEVEL B6 WITH 44MM BALLISTIC AUTO GLASS.
Front Side Driver Window	OPERABLE TO 6 INCHES
Body Doors	PILLAR POSTS, SIDE PANELS, KICK-PANELS, FIREWALL, AND HEADERS (LATERALS) ARE ARMORED WITH BALLISTIC COMPOSITE MATERIAL EQUIVALENT MATERIAL OR AIR HARDENED HEAT TREATED BALLISTIC STEEL (NIJ LEVEL III AND EN 1063 B6 PROTECTION )
Roof	ARMORED WITH BALLISTIC COMPOSITE MATERIAL
Floor	FLOOR AREAS ARE ARMORED WITH MULTI-PLY RIGID BALLISTIC FRAGMENTATION MATERIAL COMBINED WITH KEVLAR MOLDED TO FORM FIT CONTOURS OF FLOOR BOARDS AND PANELS. DESIGNED TO DEFEAT THE FOLLOWING HAND GRENADES AND ALL LESSER EXPLOSIVES. TWO DM 51 (GERMAN NORM) HAND GRENADES PER SQ.M. DETONATED SIMULTANEOUSLY
Opaque Areas	PROTECTS AGAINST SOFT CORE PROJECTILES FIRED WITH THE FOLLOWING AND ALL LESSER WEAPONS AT 90° AND 45° (ROOF) IMPACT ANGLE IN ACCORDANCE WITH CEN. 1. CALIBRE 7.62 X 39 MM, FJ/PB/SC, AK 47, (KALASHNIKOV) OBR-43 PS 2. CALIBRE 5.45 X 39.5 MM AP, FJ/PB/SCP, AKS 74, (KALASHNIKOV) OBR-74 3. CALIBRE 5.56 X 45 MM, FJ/PB/SCP, US RIFLE M16 A2, SS-109 /M-855 4. CALIBRE 7.62 X 51 MM, FJ/PB/SC, "FAL" / "LAR" NATO RIFLE



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Transparent Areas	<p>PROTECTES AGAINST SOFT CORE PROJECTILES FIRED WITH THE FOLLOWING AND ALL LESSER WEAPONS AT 90° IMPACT ANGLE IN ACCORDANCE WITH CEN.</p> <ol style="list-style-type: none"> <li>1. CALIBRE 7.62 X 39 MM, FJ/PB/SC, AK 47, (KALASHNIKOV) OBR-43 PS</li> <li>2. CALIBRE 5.45 X 39,5 MM AP, FJ/PB/SCP, AKS 74, (KALASHNIKOV) OBR-74</li> <li>3. CALIBRE 5.56 X 45 MM, FJ/PB/SCP, US RIFLE M16 A2, SS-109 /M-855</li> <li>4. CALIBRE 7.62 X 51 MM, FJ/PB/SC, (FN) "FAL" / "LAR" NATO RIFLE</li> </ol>															
Transparent Areas Ballistic Properties	<table border="1"> <thead> <tr> <th data-bbox="708 703 863 758">TYPE OF WEAPON</th> <th data-bbox="876 703 1032 758">CALIBER</th> <th data-bbox="1039 703 1240 758">BULLET</th> <th data-bbox="1247 703 1386 758">IMPACT SPEED</th> </tr> </thead> <tbody> <tr> <td data-bbox="708 766 863 982">RIFLE (E.G.: FAL G1)</td> <td data-bbox="876 766 1032 982">7.62 X 51, 305 MM LAY</td> <td data-bbox="1039 766 1240 982">STEEL FULL METAL JACKET, POINTED BULLET, SOFT CORE WITH LEAD</td> <td data-bbox="1247 766 1386 982">830 + 10 M/S</td> </tr> <tr> <td data-bbox="708 991 863 1331">RIFLE (E.G.: US M16)</td> <td data-bbox="876 991 1032 1331">5.56 X 45, 178 MM LAY</td> <td data-bbox="1039 991 1240 1331">COPPER FULL METAL JACKET, POINTED BULLET, SOFT CORE WITH LEAD AND STEEL PENETRATOR SS109</td> <td data-bbox="1247 991 1386 1331">950 + 10 M/S</td> </tr> </tbody> </table>	TYPE OF WEAPON	CALIBER	BULLET	IMPACT SPEED	RIFLE (E.G.: FAL G1)	7.62 X 51, 305 MM LAY	STEEL FULL METAL JACKET, POINTED BULLET, SOFT CORE WITH LEAD	830 + 10 M/S	RIFLE (E.G.: US M16)	5.56 X 45, 178 MM LAY	COPPER FULL METAL JACKET, POINTED BULLET, SOFT CORE WITH LEAD AND STEEL PENETRATOR SS109	950 + 10 M/S			
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Certification	<ul style="list-style-type: none"> <li>• H. P. WHITE LABORATORIES U.S.A</li> <li>• UNITED STATES LABORATORY</li> </ul> <p>THE COMPLETE TESTING STANDARDS SET OUT IN THE GUIDELINES REFERRED TO, AS WELL AS THE TEST PROTOCOL AND ALL CERTIFICATES, MAY BE VIEWED.</p>															
Suspension & Braking System	<p><b>REAR STABILISER BAR</b> UPGRADED TO A HEAVY DUTY MODEL</p> <p><b>BRAKING SYSTEM</b> IS FULLY MODIFIED TO PERFORM UNDER ADDITIONAL ARMoured</p>															



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	<p>VEHICLE BODY.</p> <p><b>TIRES AND RIMS</b> FITTED ARE FULLY APPROVED FOR THE HIGHER VEHICLE WEIGHT RATIO ACCORDING TO TÜV / MOT (DOT EQUIVALENT) TYPE RECOMMENDATIONS AND LEGAL REQUIREMENTS.</p> <p><b>MODIFICATIONS</b> ARE CARRIED OUT TO ASSURE THAT THE VEHICLE PASSES THE VERY EXACT GERMAN TYPE APPROVAL.</p>
<p>Extra Security Equipment Fitted as a Standard to Vehicle</p>	<p><b>REINFORCED HINGES:</b> SPECIALLY DESIGNED REINFORCED STRENGTHENED HEAVY DUTY DOOR HINGES A MINIMUM OF TWO EXTRA HINGES PER DOOR</p> <p><b>PROTECTED FUEL TANK:</b> COMPLETELY ARMoured ACCORDING TO THE SPECIFICATIONS WITH LEVEL CEN B6. UTILIZING ARMORED STEEL</p> <p><b>PROTECTED VEHICLE MANAGEMENT SYSTEM (BLACK BOX):</b> COMPLETELY ARMoured ACCORDING TO THE SPECIFICATIONS UTILIZING LEVEL CEN B6. WITH ARMORED STEEL</p> <p><b>RUN-FLAT TIRE SYSTEM:</b> 50 KM DISTANCE AT 50 Km/H SPEED.</p> <p><b>REAR CARGO:</b> 100% PROTECTION AGAINST FOREIGN PROJECTILES AND SPLINTERS. THE TRANSPARENT ARMOUR AREA PROVIDES REAR VIEW VISION WITH MINIMAL OBSTRUCTION.</p> <p><b>VEHICLE SUSPENSION STABILISING BARS:</b> ROBUST HEAVY DUTY HARD WEARING COIL SYSTEM. OEM COMFORT STANDARDS ARE MAINTAINED WITH THIS FEATURE.</p>
<p>Optional Security Extras</p>	<ul style="list-style-type: none"> <li>• ALARM SIREN</li> <li>• BATTERY PROTECTION</li> <li>• BEACON CONNECTOR</li> <li>• BULL BAR</li> <li>• CENTRAL DOOR LOCKING</li> <li>• FIRE EXTINGUISHER SYSTEM</li> <li>• FLAG POLES</li> <li>• FOG LAMPS</li> <li>• HEAVY DUTY CAR JACK</li> <li>• 10 TON WRENCH</li> <li>• 4 WINDOW OPERABLE LIFTERS</li> <li>• INTERCOM / PUBLIC ADDRESSING</li> </ul>



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	<p>SYSTEM</p> <ul style="list-style-type: none"> <li>• MAGNETIC BEACON</li> <li>• RADIO/CD COMBINATION</li> <li>• STALK MOUNTED MAP READING LAMP</li> </ul>
Service Package	<p>Local Service Provided in Iraq (Baghdad, at Camp Victory &amp; Camp Brooklyn and for all other locations in Iraq like Mosul, Tikrit, Basrah and Balad a team of engineers &amp; technicians will be sent on a secure military base) Kuwait , Jordan, Egypt, U.A.E. , U.S.A. , Canada, Russia, Brazil, Mexico, Turkey, Sweden, France, Italy, Afghanistan, and Germany. All other countries are available upon request, All the above have the ability to conduct full warranty, maintenance &amp; service for ballistic and non ballistic needs</p>
Strobe Lights	<p>BLUE OR RED LIGHTS VISIBLE OR NON-VISIBLE EXCEPT WHEN TURNED ON CAN BE MOUNTED TO THE VEHICLE TO DRAW ATTENTION IN STANDARD TRAFFIC SITUATIONS.</p>
Telephone / Radio Cable Preparation	<p>PRE-WIRING HAS BEEN LAID THROUGHOUT THE VEHICLE TO ASSIST FURTHER INSTALLMENT OF COMMUNICATION EQUIPMENT FOR ON BOARD TELEPHONE.</p>
Toolbox	<p>Standard Tools included for emergency situations</p>



## Warranty

- 3 YEARS OR 60,000 KM WHICHEVER COMES FIRST
- WARRANTY FOR DEFECTS IN MATERIALS AND WORKMANSHIP AFTER TRANSFER OF RISK.
- SERVICES UNDER THE WARRANTY SHALL ONLY BE PROVIDED FREE OF CHARGE IF THE DEFECTS ARE PROVEN IN DESIGN, MATERIALS OR WORKMANSHIP.
- THE WARRANTY IS EXTENDED TO ANY PARTS INSTALLED WHEN REMEDYING THE DEFECTS UNTIL EXPIRE OF THE WARRANTY PERIOD.

### SAMPLE (Pictures doesn't reflect car type)

		
REAR HATCH DOOR	BATTERY COMPARTMENT	DOORS
		
ROOF	FRONT COMPARTMENT	RUNFLATS