



Lexus LS 430



Basic Chassis Technical Specs: **All Technical Specs are before vehicle armoring**
[Photo Gallery](#) | [Maintenance Center](#) | [Request for Quotation](#) | [Warranty Claim](#)

Engine

Standard Engine	4.3L V8
Standard Transmission	6 Speed Automatic
Cylinders	8
Horsepower @ RPM	290@5600
Fuel Economy Cty/Hwy	18 / 25
Combined Fuel Economy	20
EPA Class	Large
Number of Valves	32
Torque @ RPM	320@3400
Fuel Type/System	Gas Engine / Sequential Electronic Fuel Injected
Turbo (yes/no)	No
Overdrive Transmission	Yes
Battery Output	N/A
Compression	10.5
Displacement	4293 / 262
Bore X Stroke	3.58x3.25
Cruising Range	444
Final Drive Gear Ratio Opt	N/A
Power To Weight Ratio	13.8
Final Drive Ratio	3.77



Engine Continued	
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)	16
Cargo Volume (MFR)	20.2
Fuel Capacity	22.2
Passenger Volume (EPA)	107
Passenger Volume (MFR)	107.2
Box/Cargo Height	N/A
Box/Cargo Length	N/A
Box/Cargo Width (Wheel)	N/A
Box/Cargo Width (Wall)	N/A
GVWR Standard	N/A
GVWR Maximum	N/A
Payload Standard	N/A
Payload Maximum	N/A

Brakes, Steering, Suspension & Tires

Brakes (Front)	Disc
Brakes (Rear)	Disc
Driveline	Rear Wheel Drive
Driveline (Opt)	N/A
Steering	Rack & Pinion
Steering Diameter Left	35.8
Steering Diameter Right	35.8
Suspension (Front)	Independent
Suspension (Rear)	Independent
Tire Type	Passenger
Tire Width	225
Tire Aspect Ratio	55
Tire Construction	Radial
Tire Wheel Diameter	17



Interior Dimensions	
Seating (Standard)	5
Seating (Optional)	N/A
Tow Capacity (Standard)	Towing Not Recommended
Tow Capacity (Maximum)	Towing Not Recommended
Headroom (Front)	38.1
Headroom (Row 2)	37.9
Hiproom (Front)	56.7
Hiproom (Row 2)	57.3
Legroom (Front)	44.0
Legroom (Row 2)	37.6
Shoulder Room (Front)	58.3
Shoulder Room (Row 2)	58.2
Seating (Maximum)	5
Headroom (Row 3)	N/A
Hiproom (Row 3)	N/A
Legroom (Row 3)	N/A
Shoulder Room (Row 3)	N/A

Exterior Dimensions & Weight

Curb Weight MT	N/A
Curb Weight AT	3990
Ground Clearance	5.7
Height	58.7
Length	197.4
Top Type (Standard)	Hard Fixed
Top Type (Optional)	Not Applicable
Track (Front)	61.8
Track (Rear)	61.8
Weight Distribution AT (Front)	53
Weight Distribution AT (Rear)	47
Weight Distribution MT (Front)	N/A
Weight Distribution MT (Rear)	N/A
Wheelbase	115.2
Width	72.0
Doors (Standard)	4
Doors (Maximum)	4

Origin

Where Built	Japan
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Standard Features:

Transmission

- 6-Speed Electronically Controlled Adaptive Manually Interactive Automatic Transmission With Overdrive
- Adaptive Automatic Transmission
- Manually Interactive Automatic Transmission

Steering

- Power Telescopic Steering Column
- Power Vehicle Speed Sensing Rack and Pinion Variable Assisted Steering
- Automatic Tilt-Away Steering Column
- 3-Position Memory Steering Column
- Power Tilt Steering Column

Suspension

- Independent Double Wishbone Front Suspension With Coil Springs
- Independent Double Wishbone Rear Suspension With Coil Springs
- Rear Stabilizer Bar

Electrical

- Audio, Telephone and Navigation Pre-Wiring
- 100-Amp Alternator
- 2 Rear Seat Power Outlets
- 1 Front and 2 Rear Cigarette Lighters With Ashtrays
- 12-Volt, 55-Amp/Hours Battery
- Delayed Power Retention Operates Power Windows and Sunroof
- 2 Front Power Outlet, 1 Integrated With Cigarette Lighter

Braking & Traction

- All-Speed Traction Control Controlled By ABS
- Vehicle Stability Control System (VSC) Operates Via Traction Control, ABS and Engine Power Reduction
- 4-Wheel Anti-Lock Brakes
- Front Power 315-mm Ventilated Disc and Rear Power 310-mm Ventilated Disc Brakes
- Electronic Brake Assist
- Electronic Brake Force Distribution



Safety

- Front Dual Knee Airbags
- Front and Rear Side Head Curtain Airbags
- Trunk Anti-Trap Device
- Seat Mounted Front Side Impact Airbags
- First Aid Kit
- Driver Airbag With Dual Stage Deployment
- Passenger Airbag With Dual Stage Deployment
- Front Passenger and Second Row Automatic Locking Retractors
- Emergency Fuel Shutoff Device
- L A T C H
- Front Dual Power Seatbelt Height Adjusters
- Rear 3-Point Center Seatbelt
- Front and Rear Outboard 3-Point Seatbelts
- Front Dual Pretensioners With Force Limiters
- Side Guard Door Beams

Anti-Theft & Locks

- Radio Anti-Theft
- Child Safety Door Locks Located On Rear Doors
- Power Door Locks
- Selective Locking/Unlocking Via Key and Remote Keyless Entry
- Valet Lockout
- Vehicle Anti-Lockout Device
- Vehicle Anti-Theft Via Alarm and Engine Immobilizer

Remote Controls & Remote Releases

- Remote Decklid Release Located Inside Vehicle and On Multi-Function Remote
- Remote Fuel Door Release
- 3-Function HomeLink(R) Universal Garage Door Opener Located In Overhead Console
- Keyless Entry Operated Via Key Fob With Audible Confirmation
- Multi-Function Remote Operates Anti-Theft, Exterior Lights, Door Lock/Unlock, Illuminated Entry, Panic Alarm, Power Windows and Trunk
- Panic Alarm

Seats

- Front Driver Power Seat Adjusts 14 Ways Total
- Leather Seats
- Front Passenger Power Seat Adjusts 10 Ways Total
- Front Dual Power Lumbar Support
- Rear Seat Pass Through



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- Front Dual Power Headrests
- Front Dual Reclining Bucket Seats With 3-Position Driver Power Memory and Adjustable Seat Height
- Rear Bench Seat With Fold-Down Armrest and Manual Headrests

Storage

- Illuminated and Lockable Glovebox
- Front Dual Seatback Storage Pockets
- Cargo Net
- Covered Lower Console Storage Located On Floor With Armrest Storage
- Cargo Area Tie Down Hooks
- Coinholder
- 2 Front and 2 Rear Cupholders, 4 Cupholders Total
- Front and Rear Door Mounted Storage

Instrumentation

- Cruise Control
- Steering Wheel Mounted Controls For Trip Computer, Cruise Control and Audio
- Service Interval Indicator For Brake Wear
- Compass
- Exterior Temperature Gauge
- Trip Computer
- Tire Pressure Monitor
- Electroluminescent Instrumentation
- Digital Clock
- 3-Memory Adjustments For Driver Side Include Exterior Mirrors, Seat, Seatbelt Adjusters, and Steering Wheel
- Tachometer

Interior Lighting

- Trunk Light
- Delayed Courtesy Light
- Illuminated Entry System Includes Ignition Key Surround
- Front Dual and Rear Dual Reading Lights

Exterior Lighting

- Automatic Headlights With Automatic On/Off, Time Delay and Dusk Sensor
- Daytime Running Lights
- Front Halogen Foglights
- Adaptive Low Beam Xenon High Intensity Discharge Headlights With Auto-Leveling; High Beam Halogen Headlights



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- Perimeter Lighting Located On Headlights and Under Exterior Mirrors Activated Via Remote With .5 Minute Activation

Entertainment, Communication & Navigation

- Radio Data System
- AM/FM ETR(R) Radio With 178-Watts, Speed Sensitive Volume and 7 Speakers Total; Auto-Reverse Cassette Player; 6-Disc CD Changer Integrated With Radio
- Subwoofer
- Telephone Antenna
- In-Glass Diversity Radio Antenna

Sunroof/Moonroof & Removable/Convertible Top

- Power Tilt and Slide Moonroof

Heating, Ventilation & Air Conditioning

- Separate Driver/Front Passenger Climate Controls
- Automatic Climate Control With Sun Sensor
- Interior Air Filter

Interior, Design, Decor & Floor Covering

- Rear Carpeted Floor Mats
- Front Carpeted Floor Mats
- Wood and Leather Steering Wheel
- California Walnut or Birds Eye Maple Genuine Wood Trim Located On Center Floor Console, Doors, Instrument Panel, Shift Knob, and Steering Wheel
- Carpet Located In Passenger Cabin and Trunk
- Wood and Leather Located On Shift Knob

Doors

- Fully Automatic Power Trunk Lid

Wheels & Tires

- Alloy Wheels, 17-In. X 7.5-In.
- SBRP225/55R17 H-Rated Bridgestone or Dunlop, All-Season or Summer Tires
- Full-Size Spare Tire

Windows, Mirrors & Wipers

- Electrochromic Interior Rearview Mirror
- Dual Color-Keyed Power Adjustable Heated Power Folding Electrochromic Automatic Tilt-Down 3-Position Memory Adjustable Exterior Rearview Mirrors



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- Sliding Sunshade For Moonroof
- Front Dual and Rear Illuminated Vanity Mirrors
- Power Window Lockout
- Power Windows With Front and Rear One-Touch Up, One-Touch Down and Pinch Protection
- Rear Window Defroster
- Green Tinted Glass
- Infrared Glass
- Vehicle Speed Sensitive Rain Sensing Variable Intermittent Windshield Wipers

Exterior, Design, Paint & Finish

- Front and Rear Color-Keyed 5-MPH Impact Absorbing Bumpers
- Underbody Aero Cladding
- Front Air Dam
- Metallic Paint (If Selected)

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.
- 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

NIJ Level III/B6 Armored Vehicles

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



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Floor	<p>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</p>
Opaque Areas	<p>PROTECTS AGAINST SOFT CORE PROJECTILES FIRED WITH THE FOLLOWING AND ALL LESSER WEAPONS AT 90° AND 45° (ROOF) IMPACT ANGLE IN ACCORDANCE WITH CEN.</p> <ol style="list-style-type: none"> 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
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"> 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, (FN) "FAL" / "LAR" NATO RIFLE



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<p>Transparent Areas Ballistic Properties</p>	<table border="1"> <thead> <tr> <th data-bbox="708 308 863 373">TYPE OF WEAPON</th> <th data-bbox="876 308 1032 373">CALIBER</th> <th data-bbox="1039 308 1234 373">BULLET</th> <th data-bbox="1240 308 1386 373">IMPACT SPEED</th> </tr> </thead> <tbody> <tr> <td data-bbox="708 382 863 596">RIFLE (E.G.: FAL G1)</td> <td data-bbox="876 382 1032 596">7.62 X 51, 305 MM LAY</td> <td data-bbox="1039 382 1234 596">STEEL FULL METAL JACKET, POINTED BULLET, SOFT CORE WITH LEAD</td> <td data-bbox="1240 382 1386 596">830 + 10 M/S</td> </tr> <tr> <td data-bbox="708 604 863 945">RIFLE (E.G.: US M16)</td> <td data-bbox="876 604 1032 945">5.56 X 45, 178 MM LAY</td> <td data-bbox="1039 604 1234 945">COPPER FULL METAL JACKET, POINTED BULLET, SOFT CORE WITH LEAD AND STEEL PENETRATOR SS109</td> <td data-bbox="1240 604 1386 945">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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<p>Certification</p>	<ul style="list-style-type: none"> • H. P. WHITE LABORATORIES U.S.A • UNITED STATES LABORATORY <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>												
<p>Suspension & Braking System</p>	<p>REAR STABILISER BAR UPGRADED TO A HEAVY DUTY MODEL</p> <p>BRAKING SYSTEM IS FULLY MODIFIED TO PERFORM UNDER ADDITIONAL ARMoured VEHICLE BODY.</p> <p>TIRES AND RIMS FITTED ARE FULLY APPROVED FOR THE HIGHER VEHICLE WEIGHT RATIO ACCORDING TO TÜV / MOT (DOT EQUIVALENT) TYPE RECOMMENDATIONS AND LEGAL REQUIREMENTS.</p> <p>MODIFICATIONS ARE CARRIED OUT TO ASSURE THAT THE VEHICLE PASSES THE VERY EXACT GERMAN TYPE APPROVAL.</p>												



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<p>Extra Security Equipment Fitted as a Standard to Vehicle</p>	<p>REINFORCED HINGES: SPECIALLY DESIGNED REINFORCED STRENGTHENED HEAVY DUTY DOOR HINGES A MINIMUM OF TWO EXTRA HINGES PER DOOR</p> <p>PROTECTED FUEL TANK: COMPLETELY ARMoured ACCORDING TO THE SPECIFICATIONS WITH LEVEL CEN B6.UTILIZING ARMORED STEEL</p> <p>PROTECTED VEHICLE MANAGEMENT SYSTEM (BLACK BOX): COMPLETELY ARMoured ACCORDING TO THE SPECIFICATIONS UTILIZING LEVEL CEN B6. WITH ARMORED STEEL</p> <p>RUN-FLAT TIRE SYSTEM: 50 KM DISTANCE AT 50 Km/H SPEED.</p> <p>REAR CARGO: 100% PROTECTION AGAINST FOREIGN PROJECTILES AND SPLINTERS. THE TRANSPARENT ARMOUR AREA PROVIDES REAR VIEW VISION WITH MINIMAL OBSTRUCTION.</p> <p>VEHICLE SUSPENSION STABILISING BARS: 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"> • ALARM SIREN • BATTERY PROTECTION • BEACON CONNECTOR • BULL BAR • CENTRAL DOOR LOCKING • FIRE EXTINGUISHER SYSTEM • FLAG POLES • FOG LAMPS • HEAVY DUTY CAR JACK • 10 TON WRENCH • 4 WINDOW OPERABLE LIFTERS • INTERCOM / PUBLIC ADDRESSING SYSTEM • MAGNETIC BEACON <ul style="list-style-type: none"> • RADIO/CD COMBINATION • STALK MOUNTED MAP READING LAMP



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Service Package	Local Service Provided in Iraq (Baghdad, at Camp Victory & Camp Brooklyn and for all other locations in Iraq like Mosul, Tikrit, Basrah and Balad a team of engineers & 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 & service for ballistic and non ballistic needs
Strobe Lights	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.
Telephone / Radio Cable Preparation	PRE-WIRING HAS BEEN LAID THROUGHOUT THE VEHICLE TO ASSIST FURTHER INSTALLMENT OF COMMUNICATION EQUIPMENT FOR ON BOARD TELEPHONE.
Toolbox	Standard Tools included for emergency situations

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