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Mercedes Benz 500S



Technical Specs: All Technical Specs are before Vehicle armoring

Engine

Standard Engine	5.0L V8 / 5.5L V8 / 6.0L 12V(S600)
Standard Transmission	7 Speed Automatic
Cylinders	8 / 12
Horsepower @ RPM	302@5600
Fuel Economy Cty/Hwy	16 / 24
Combined Fuel Economy	19
EPA Class	Large
Number of Valves	24
Torque @ RPM	339@2700
Fuel Type/System	Gas Engine / Sequential Electronic Fuel Injected
Turbo (yes/no)	No
Overdrive Transmission	Yes
Battery Output	N/A
Compression	10.0



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Engine Continued	
Displacement	4966 / 303
Bore X Stroke	3.82x3.31
Cruising Range	417.6
Final Drive Gear Ratio Opt	N/A
Power To Weight Ratio	N/A
Final Drive Ratio	3.07
Valves Configuration	Single 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)	15
Cargo Volume (MFR)	15.4
Fuel Capacity	23.2
Passenger Volume (EPA)	106
Passenger Volume (MFR)	105.0
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 & Tire	
Brakes (Front)	Disc
Brakes (Rear)	Disc
Driveline	Rear Wheel Drive
Driveline (Opt)	All Wheel Drive
Steering	Rack & Pinion
Steering Diameter Left	39.7
Steering Diameter Right	39.7



**Brakes, Steering, Suspension &
Tire Continued**

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)	4
Tow Capacity (Standard)	Towing Not Recommended
Tow Capacity (Maximum)	Towing Not Recommended
Headroom (Front)	37.6
Headroom (Row 2)	38.4
Hiproom (Front)	59.9
Hiproom (Row 2)	59.4
Legroom (Front)	41.3
Legroom (Row 2)	40.3
Shoulder Room (Front)	59.2
Shoulder Room (Row 2)	58.3
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	4170
Ground Clearance	Not Listed
Height	57.2
Length	203.1
Top Type (Standard)	Hard Fixed
Top Type (Optional)	Not Applicable



Exterior Dimensions & Weight Continued

Track (Front)	62.0
Track (Rear)	62.0
Weight Distribution AT (Front)	51
Weight Distribution AT (Rear)	49
Weight Distribution MT (Front)	N/A
Weight Distribution MT (Rear)	N/A
Wheelbase	121.5
Width	73.0
Doors (Standard)	4
Doors (Maximum)	4
Origin	Germany

Standard Features:**Transmission**

- 7-Speed Electronically Controlled Adaptive, Manually Interactive Automatic Transmission With Overdrive
- Adaptive Automatic Transmission
- Touch Shift Manually Interactive Transmission

Steering

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

Suspension

- AIRmatic Adaptive Variable Suspension
- Front and Rear Automatic Load Leveling
- Independent Multi-Link Front Suspension With Coil Springs, Anti-Dive Geometry and Variable Rate Shock Absorbers
- Independent Multi-Link Rear Suspension With Coil Springs, Anti-Dive Geometry and Variable Rate Shock Absorbers
- Rear Stabilizer Bar



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Electrical

- Telephone Prewiring
- Front Cigarette Lighter and Ashtray
- Battery
- Delayed Power Retention
- Front Power Outlet

Braking & Traction

- Automatic Slip Control (ASR) All-Speed Traction Control Via ABS and Engine Management
- Electronic Stability Program (ESP(R)) Vehicle Stability Control System Operated Via Engine Power Reduction, ABS and Traction Control Measures Steering Wheel Angle/Direction, Yaw Rate, Wheel Speed, and Lateral Acceleration
- 4-Wheel Anti-Lock Brakes
- Brembo(R) Front Power 330-mm X 32-mm Ventilated Disc and Rear Power 300-mm X 22-mm Ventilated Disc Brakes
- Brake Assist Electronic Brake Assistance
- Electronic Brake Force Distribution

Safety

- Head Protection Curtain Side Head Curtain Airbags
- Trunk Anti-Trap Device
- Front Dual Side Airbags Mounted In Doors
- Rear Dual Side Airbags Mounted In Doors
- First Aid Kit
- Front Driver Airbag With Dual Stage Deployment
- BabySmart(TM) Passenger Airbag Cutoff Switch and Sensor Activated By Seatbelt Engagement, Passenger Weight, or Installed Child Seat
- Front Passenger Airbag With Dual Stage Deployment
- Automatic Locking Retractors
- Emergency Fuel Shutoff Device
- Rollover Sensor
- Front and Rear Seatbelt Height Adjusters
- Rear Center 3-Point Seatbelt
- Front and Rear 3-Point Seatbelts
- Front and Rear Pretensioners With Force Limiters
- Side Guard Door Beams

Anti-Theft & Locks

- Radio Anti-Theft



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- Locking Fuel Filler Door
- Power Decklid Lock/Unlock
- Programmable Power Door Locks With Automatic Locking At 9 MPH
- Selective Locking/Unlocking
- Valet Lockout
- Vehicle Anti-Lockout
- Vehicle Anti-Theft Via Alarm, Engine Immobilizer, and Anti-Lift Sensor
- Tele Aid Vehicle Theft Tracking

Remote Controls & Remote Releases

- Remote Trunk Release Located On Multi-Function Remote
- Remote Fuel Door Release
- 3-Function HomeLink(R) Universal Garage Door Opener
- Keyless Entry Operated Via Key Fob
- Smartkey Multi-Function Remote Operates Anti-Theft, Exterior Lights, Door Lock/Unlock, Fuel Door, Illuminated Entry, Panic Alarm, Power Windows, Sunroof, and Trunk
- Panic Alarm

Seats

- Front Driver Power Seat Adjusts 14 Ways Total
- Nappa Leather Seats
- Front Passenger Power Seat Adjusts 14 Ways Total
- Front Dual Power Lumbar Support
- Front Dual Power Headrests
- Front Dual Heated Bucket Seats With 3-Position Power Memory and Adjustable Seat Height
- Rear Bench Seat With Fold-Down Armrest and Manually Adjustable Headrests

Storage

- Lockable and Illuminated Glovebox
- Front Dual Seatback Storage Pockets
- Front Dual Underseat Storage
- Covered Lower Console Storage Located On Floor
- Rear Armrest Storage
- Temperature Controlled Storage Cools Lower Console Storage Area
- Cargo Area Tiedown Hooks
- Coinholder
- 2 Front and 2 Rear Cupholders, 4 Cupholders Total
- Front and Rear Door Mounted Storage

Instrumentation



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- Cruise Control
- Steering Wheel Controls For Audio, Navigation System, Air Conditioning, Instrumentation Display, and Phone
- Flexible Service System Service Interval Indicator For Oil Level and Oil Quality
- Interior Temperature Gauge
- Exterior Temperature Gauge
- Trip Computer With Stop Watch, Average Fuel Consumption, Instantaneous Fuel Consumption, and Miles To Empty
- Tire Pressure Monitor
- Electroluminescent Instrumentation
- Oil Gauge
- Digital Clock
- Audible Warnings Include Headlights-On and Key-In-Ignition
- Tachometer

Interior Lighting

- Trunk Light
- Delayed Courtesy Light
- Illuminated Entry
- Front Dual and Rear Dual Reading Lights

Exterior Lighting

- Automatic Headlights With Automatic On, Automatic Off, and Dusk Sensor
- Programmable Daytime Running Lights
- Low Beam and High Beam Bi-Xenon High Intensity Discharge Headlights With Auto-Leveling
- Heated Headlight Washers
- Front Halogen and Rear Foglights
- Halogen Auxiliary High Beam Headlights
- Night Security Illumination Programmable Perimeter Lighting

Entertainment, Communication & Navigation

- AM/FM Radio With Speed Sensitive Volume, Bose(R) Cabin Surround(R) Sound System With 12 Speakers Total; CD Player
- Equalizer
- COMAND GPS and DVD Navigation Aid
- Bose(R) 10-Inch Nd(TM) NeoDymium Iron Boron High Efficiency Subwoofer
- Tele Aid Telematics Includes Automatic Collision Notification, Concierge Services, Emergency Response, Roadside Assistance, Security System Notification, Stolen Vehicle Tracking, Remote Unlocking, and Reservations; 12-Months Included At No Charge
- Telephone Antenna



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- Tele Aid Vehicle Location System
- In-Glass Diversity Antenna

Sunroof/Moonroof (note: can be transparent armor, or opaque steel armor, depending on customer's choice)

- Power Tilt and Slide Glass Sunroof With Memory

Heating, Ventilation & Air Conditioning

- Separate Driver/Front Passenger Climate Controls
- Automatic Climate Control With Sun Sensor
- Interior Dust, Pollen, and Active Charcoal Air Filter
- HVAC Rest Mode With 30 Minutes Activation
- Rear HVAC Ducts

Interior, Design, Decor & Floor Covering

- Rear Carpeted Floor Mats
- Front Carpeted Floor Mats
- Leather Steering Wheel
- Burl Walnut Wood Trim Located On Center Floor Console, Instrument Panel, and Doors
- Carpet Located In Passenger Cabin and Cargo Area
- Leather Trim Located On Doors, Steering Wheel, and Shift Knob

Doors

- Latching Power Trunk Lid
- Front and Rear Power Side Door Closers

Wheels & Tires

- 5-Spoke Alloy Wheels, 17-In. X 7.5-In.
- SBRP225/55R17 97H, All-Season Performance Tires
- Full-Size Spare Tire

Windows, Mirrors & Wipers

- Electrochromic Interior Rearview Mirror
- Dual Body Color Power Adjustable Heated Power Folding Signaling Exterior Rearview Mirrors With 3-Position Memory, Driver Side Electrochromic, and Passenger Side Automatic Tilt-Down
- Heated Washer System
- Power Sunshade Located On Rear Window
- Windshield Wiper De-Icer
- Front Dual and Rear Dual Illuminated Vanity Mirrors



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- Front and Rear Power Windows With Front One-Touch Up and One-Touch Down
- Rear Window Defroster
- Tinted Glass
- Front Dual Sunvisors
- Rain Sensing Intermittent Windshield Wipers

Exterior, Design, Paint & Finish

- Front and Rear Body Color Bumpers
- 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
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



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<p>Opaque Areas</p>	<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 															
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<p>Transparent Areas Ballistic Properties</p>	<table border="1"> <thead> <tr> <th data-bbox="711 1192 865 1245">TYPE OF WEAPON</th> <th data-bbox="881 1192 1036 1245">CALIBER</th> <th data-bbox="1052 1192 1239 1245">BULLET</th> <th data-bbox="1255 1192 1385 1245">IMPACT SPEED</th> </tr> </thead> <tbody> <tr> <td data-bbox="711 1255 865 1350">RIFLE (E.G.: FAL G1)</td> <td data-bbox="881 1255 1036 1350">7.62 X 51, 305 MM LAY</td> <td data-bbox="1052 1255 1239 1476">STEEL FULL METAL JACKET, POINTED BULLET, SOFT CORE WITH LEAD</td> <td data-bbox="1255 1255 1385 1308">830 + 10 M/S</td> </tr> <tr> <td data-bbox="711 1486 865 1581">RIFLE (E.G.: US M16)</td> <td data-bbox="881 1486 1036 1581">5.56 X 45, 178 MM LAY</td> <td data-bbox="1052 1486 1239 1801">COPPER FULL METAL JACKET, POINTED BULLET, SOFT CORE WITH LEAD AND STEEL PENETRATOR SS109</td> <td data-bbox="1255 1486 1385 1539">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>
<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>



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Optional Security Extras	<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
Service Package	<p>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</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)

