

2006 S-CLASS
Sales Presentation Guide



Mercedes-Benz

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ABOUT THIS GUIDE

Information at hand

EASY ACCESS TO PRODUCT KNOWLEDGE

The new 2006 Sales Presentation Guides continue in the format introduced for 2005, based on positive feedback received from the Mercedes-Benz sales force.

ORGANIZATION OF THE GUIDES

The presentation of the 2006 Mercedes-Benz model line is divided into two groups:

- **Class Guides:** Information on each model line, to explain the key features that distinguish one model line from the others, and from their competition.
- A core **Technical Guide:** Information on what makes every Mercedes-Benz a Mercedes-Benz. The Class Guides dispense with repeating features that are shared by every Mercedes-Benz, for easier access to information you need.

To help you find information easily, the Guides provide **some basic search tools:**

- At the front of each Guide, a **Table of Contents** lists the subjects in page order.
 - This is followed by an **Alphabetical Index** of key topics.
 - Each **Class Guide** is divided into four sections: **Class Overview**, **Exterior**, **Interior** and **Mechanical**—followed by the specifications and equipment charts.
 - ★ **Benefits** of each feature are called out in *italics with a red star*.
 - Throughout each Guide, **blue-diamond callouts** direct you to other sections or the Technical Guide for a consolidated discussion of features of every Mercedes:
- ◆ **MORE INFO: TECH GUIDE | P. XX**



S430 4MATIC Sedan

DEPTH OF SUBSTANCE

One of the greatest challenges—and rewards—of offering Mercedes-Benz products to the driving public is knowing the breadth and depth of the substance that makes a Mercedes special, and why the tagline “Unlike any other” rings true.

From some 65 years of safety innovation to cutting-edge convenience features like Keyless Go, every element of a Mercedes-Benz is part of an intricately yet elegantly orchestrated system of features designed to work together. It’s this systematic approach that results in vehicles that truly are unlike any other in the driving pleasure, ownership experience, extreme confidence and unparalleled pride they impart.

WE COULD GO ON...

The biggest challenge in understanding what makes a Mercedes a Mercedes is resisting “information overload” with all the many nuances of their design. Did you know, for example, that many systems in every Mercedes communicate to each other? For example:

- If a critical exterior lamp burns out, the S-Class automatically substitutes a suitable nearby lamp.
- The S-Class climate control responds first to occupied seats, based on seat-belt use.
- Keyless Go can sense if the driver accidentally locks the key in the trunk. (It will pop the trunk a few seconds later.)
- The auto-dimming rearview mirror cancels its dimming if an interior light is switched on, to provide a better view.

The truth is, we could produce Guides that are thousands of pages thick—and that few people could ever absorb. So we’ve selected the most compelling and pertinent facts about the most advanced, diverse and exciting line of Mercedes-Benz models we’ve ever presented to you and your customers. With an exciting, expanded range of new models for 2006, we hope you’ll not only benefit from this approach, we hope you’ll enjoy it, too.

John Zupancic
Curriculum Designer
MBUSA Training and Education

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Questions or comments on the Presentation Guides for 2006?
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THE 2006 S-CLASS

Positioning

Few vehicles in the world have a heritage as rich as that of the Mercedes-Benz S-Class. For 2006, the S-Class will continue to deliver the combination of thoughtful luxury features, technological sophistication, passionate styling and a graceful yet athletic driving experience that has made it the standard by which all luxury sedans are measured.

For 2006, there are now six S-Class model offerings. At the entry level, a new standard-wheelbase¹ model, the S350 Sedan, makes realizing S-Class ownership easier than ever, especially for shoppers who've traditionally felt limited to lower-line competitive models such as those from the Japanese luxury brands.

The familiar long-wheelbase sedans—some four inches longer than the S350, all in the rear legroom area—make up the remainder of the model line. The V-8 powered S430 and S500 offer buyers two choices in exceptional value: the technologically advanced 4MATIC™ all-wheel drive system or the stylish AMG Sport Package, either one as a no-charge option. And to enhance the exclusive luxury of the S600, a number of formerly optional items have been made standard for 2006 (replacing the phone) on our V-12 flagship sedan.

And as if the 493-hp S55 AMG weren't already a superlative among luxury performance sedans, it's joined by the world's quickest sedan,² the 604-hp twin-turbo V-12 S65 AMG.

1 S-Class sedans have been sold around the world in two wheelbase lengths—standard and long—since the 1960s. Prior to the introduction of the 2006 S350, the current-generation S-Class has only been offered in the U.S. in the long-wheelbase version, even though these models have been called "Sedans" rather than "Long-wheelbase Sedans." Please be aware that all S-Class models other than the S350 share the long-wheelbase body style.

2 Based on manufacturer-published 0–60-mph acceleration, peak horsepower and peak torque of all 2005 4-door sedans sold in the U.S. 2006 competitor information not available at time of publication.



S55 AMG Sedan

MODEL HIGHLIGHTS

Each model enhances the S-Class lineup:

The new standard-wheelbase **S350 Sedan** brings the S-Class within reach of new buyers. A 241-hp 3.7-liter V-6 and 5-speed automatic transmission are standard.

The long-wheelbase **S430 and S500 Sedans** set the benchmark in the high luxury segment, with V-8 power, and the choice of the AMG Sport Package with a 7-speed automatic, or 4MATIC all-wheel drive with a 5-speed automatic, either as a no-cost option. The S500 adds Bi-Xenon headlamps, Nappa leather and heated front seats to the S430's already generous roster of standard equipment.

The **S55 AMG Sedan** is the executive athlete, with nearly 500 supercharged V-8 horses that are also remarkably well-behaved in around-town driving. It's like an exotic car you can enjoy every day.

The **S600 Sedan** remains the exclusive automotive experience, with a liquid-smooth 5.5-liter twin-turbo V-12 producing 493 hp, cabin appointments bordering on the extravagant, and new standard luxuries.

The **S65 AMG Sedan**, launched early 2005, is simply the most powerful and torque-rich 4-door sedan on the market,² with more than 600 handcrafted, twin-turbocharged V-12 horsepower allowing it to out-accelerate any other sedan with effortless, seamless and seemingly endless power and poise.

S-CLASS OVERVIEW

Heritage

1924–1933

The 15/70/100 Model led to the Nürburg 460 and Nürburg 500 models.

1928

The Nürburg 460 was introduced, offering 4-wheel brakes, automatic central chassis lubrication and a choice of wheel types—with wooden or wire spokes. Engine displacement was 4,592 cc, developing either 80 or 90 hp, depending on the information source. The Nürburg 460 was available as a limousine, open touring car, cabriolet or supercharged sport-roadster. Total production of the Nürburg 460 chassis through 1933 was 2,893 units.

1930–1937

The Type 770 (W07) Grosser Mercedes were large, powerful automobiles, hence the name “Grosser” (meaning grand). Only 117 units were produced, intended for heads of state. The smooth powertrain was capable of relative quickness. Weighing over 6,000 pounds, the Grosser Mercedes was powered by a 7.7-liter supercharged inline 8-cylinder engine that developed up to 200 net hp.

1951

The Type 300 and Type 220 models were introduced. These were the first entirely new post-World War II Mercedes-Benz models. The 300 was the first Mercedes-Benz designed with the American market taken into consideration, with more streamlined styling. These models were in production for 11 years. As it evolved, Type 300 accounted for over 11,000 units.



Weighing between 3,850 and 4,400 lb, the 300 featured a 3.0-liter overhead-cam inline-6 that developed up to 160 hp and was capable of speeds up to 105 mph. It had a reputation for its high degree of engineering and quality construction. The last of the Type 300 4-door sedans, built between 1957 and 1962, were available with or without visible B- and C-pillars, or as a limousine.

German Chancellor Konrad Adenauer had three 300 models, which he drove until 1967. Hence, the 300 came to be called the “Adenauer.” Its elegance made a statement about the people who drove it, especially in reconstruction Germany. It was built for the wealthy, beautiful and powerful. Among its interior features were an anti-glare interior mirror, center rear armrest and four ashtrays. Exterior styling included an elegant roof, sweeping fenders and a massive radiator. It was the largest German automobile of its day.

The Adenauer offered several innovations throughout its production. It had the patented Mercedes safety door latches, which protected against doors jamming in

an impact. Manifold fuel injection was first made available in the 300 for 1957, and it offered power steering in 1958.

1961–1968

The 300 SE (W112) introduced such safety features as the dual-circuit braking system, padded dashboard, impact protection on the steering-wheel hub, and knee-impact protection. It also had a safety cage built into the body, as well as front and rear crumple zones. Seat belts were available as an option, as were front head restraints.

Standard and optional luxury features included power steering, sunroof,



illuminated glovebox, vanity mirror, trip meter, air conditioning and rear heating ducts. Mechanical features included a 6-cylinder engine and standard pneumatic suspension system. More than 380,000 of this S-Class series were built.

1964–1981

On the Grosser (“grand”) theme, 2,677 Type 600 models were hand-built by special order. They featured air suspension and an overhead-cam 6.3-liter V-8 that developed 250 hp (DIN). Three models were available: the long-wheelbase 4-door, the longer-wheelbase “Pullman” 4-door and the even-longer-wheelbase 6-door. A few were built with a fabric roof for the rear passenger compartment that could



be folded down for parades. A window separated the front cabin from the rear passengers.

1965–1972

The 300 SEL 6.3 (W109 series) was the world’s fastest luxury sedan of its time, able to go from 0 to 60 mph in 7.5 seconds. Its 6.3-liter V-8 engine developed 250 hp (DIN) and 369 lb-ft of torque in a body weighing 4,010 lb. Other notable features included air suspension, air conditioning, leather upholstery, 4-speed automatic transmission,



AM/FM radio and central locking system. As many as 1,840 units were brought to the U.S. during its model run.

1972–1979

The first vehicles to be officially designated “S-Class,” the W116 series included the audacious 6.9 model. Among the technical innovations of the W116 were an available hydropneumatic rear suspension, and a turbocharged 5-cylinder diesel engine in



S-CLASS OVERVIEW continued**Heritage** continued

the 300 SD. The turbodiesel was a popular model during the energy crisis in the U.S. during the early 1970s.

With a 6.9-liter V-8 engine, the 450 SEL-based 6.9 developed 286 hp. Powertrain components included fuel injection, electronic ignition and hydraulic valves. Capable of a top speed of 140 mph, the 6.9 came with a long list of standard features. Over 1,800 units were brought to the U.S.

The S-Class had ribbed turn-signal and taillamp lenses—a design carried over in modified form through today. Mechanical features included double wishbone front suspension and, in 1978, an optional Antilock Braking System (ABS). Electronics were important to the S-Class, with power windows, sunroof, two-stage heated front seats, cruise control, an outside temperature indicator, headlamp washers with wipers, cassette player and automatic climate control. Total production of the W116 series was 473,035 units.

**1980–1991**

With the W126 series, the S-Class became well-known as a pioneer in passive safety. Mercedes-Benz introduced 3-way forked members as part of the front crumple zone, and in crash testing the S-Class was able to withstand an offset frontal impact of 34 mph with the passenger compartment left intact. ABS was available as an option,

as were an Automatic Locking Differential (ASD) and Automatic Slip Control (ASR).

The W126 sedans and coupes debuted a number of important seat-belt features, such as 3-position height adjustment of the sedan front shoulder belts (1979) and the coupe's front seat-belt presenters (1982). In 1981, the S-Class was the world's first volume-produced automobile to offer a driver's front air bag, along with a front passenger seat-belt Emergency Tensioning Device (ETD). In 1987, a front air bag was made available for the front passenger.

Innovations in comfort included power front seats with memory, heated rear seats, rear-cabin reading lights and a power rear-window sunshade. On long-wheelbase models, rear-seat passengers had available power-adjustable seating and separate climate control vents. At the end of its production run, the W126 series S-Class included five models in the U.S.: the standard-wheelbase 300 SE Sedan; the long-wheelbase 300 SEL, 420 SEL and 560 SEL Sedans; and the 560 SEC Coupe.

1992–1999

The objective for the W140-series S-Class—introduced for model year 1992—was to do everything better than ever before. Its large interior, dual-pane side windows and smooth-running engines all added to comfort. The automatic climate control filtered out odors and minute particles of dust. The doors and decklid had closing assists, and rear-seat passengers were provided with a pair of ceiling-mounted vanity mirrors.



Safety engineering was given high priority, with improved provisions for side impacts. Safety systems included front air bags for the driver and front passenger, automatic shoulder-belt height adjustment, front seat-belt ETDs, and Automatic Slip Control (ASR). During its lifetime, the W/V140 was outfitted with auto-dimming rearview mirrors, front door-mounted side-impact air bags, front seat-belt force limiters, Brake Assist and Electronic Stability Program (ESP).

For the 1998 model year, the coupe models became their own model line, the new CL-Class. Approximately 407,000 S-Class units were built from 1991 through the end of the 1999 model year in August 1998.

**2000**

The current W220-series S-Class was introduced during 1999 for the 2000 model year. The entry-level U.S. model was the S430 Sedan in long-wheelbase (V220) form with V-8 power. It represented the ultimate in automotive engineering, at the same time offering the highest standards of ride comfort, active and passive safety, reliability and environmental compatibility.

**2003**

The 2003 S-Class received a mid-cycle facelift. In addition to restyling inside and out, the interior materials became richer. Technological advances included the new option of 4MATIC™ all-wheel drive on the S430 and S500 Sedans, and new engines boasting nearly 500 hp for the S55 AMG and S600 Sedans. In addition, safety innovations included the world's first accident-predictive vehicle preparation system, PRE-SAFE.®

2004

The S-Class maintained its reputation for leadership in the marketplace by offering a host of technological enhancements, including the industry's first 7-speed automatic transmission (on S430 and S500 models without 4MATIC), enhanced Tele Aid capabilities, an easier-to-use COMAND head unit and DVD-based navigation system, and new Bose® digital surround sound.

2005

The S-Class again remained the best-selling premium luxury sedan both worldwide and in the U.S. market. Adding to its already legendary long-term value was the instantly appealing offering of 4MATIC all-wheel drive as a no-charge option on both the S430 and S500 models. Early in 2005, the beyond-superlative performance of the 604-hp S65 AMG Sedan became available.

WHAT'S NEW FOR 2006

Models

NEW S 350 SEDAN

A new entry-level model, the **standard-wheelbase** S 350 Sedan, slots below the S 430 at a price competitive with many Japanese luxury sedans.

- **116.7" wheelbase**, 198.5" overall length
– 4.8" shorter than the S 430, all in the rear doors and rear-seat footwells
- 35.6" of rear legroom
– 4.7" less than the S 430
– The same as an E 500 Sedan
- 241-hp **3.7-liter SOHC V-6** (familiar from the 2005 ML 350 and from the same modular family as the S-Class V-8s)
- 5-speed automatic transmission
- Unique **5-twin-spoke** 17" wheels
- **Standard equipment** and interior trim virtually identical to the S 430
– Power rear-window sunshade is optional
- *designo* editions, 4MATIC™ and the AMG Sport Package are **not available**

1 Based on manufacturer-published 0–60-mph acceleration, peak horsepower and peak torque of 2005 4-door sedans.

2 Stated rates of acceleration are based upon manufacturer's track results and may vary depending upon



NEW S 65 AMG SEDAN

With the successful introduction of the SL 65 and CL 65 AMG models in 2005, they have been joined by a 4-door counterpart, the incredible S 65 AMG, **the quickest and most powerful sedan on the market.**¹

- Handcrafted **6.0-liter twin-turbo V-12**
– **604 hp** @ 4,800–5,100 rpm
– **738 lb-ft of torque** @ 2,000–4,000 rpm
- 0–60 in **4.2 seconds**²
- Staggered-width **19" AMG two-piece** alloy wheels with **Anthracite** finish³
- All S 55 AMG standard equipment, plus:
– Heated rear seats
– Rear side-window roller blinds
– Keyless Go
– Electronic trunk closer

model, environmental and road surface conditions, driving style, elevation and vehicle load.

3 AMG 18" and 19" wheels and accompanying high-speed-rated tires provide substantially increased treadwear and



S 350 Sedan

Exterior

AMG SPORT PACKAGE

- AMG-design **lower bodywork** and **wheels**
- For **rear-wheel drive** S 430 and S 500:
– **No-cost option**
– Staggered-width **18" AMG double-spoke** alloy wheels³ (from 2005 S 55 AMG)
- For S 430 and S 500 with **4MATIC**:
– **Extra-cost option**
– **18" AMG thin-spoke monoblock** alloy wheels³ (all four wheels the same size)

S 55 AMG WHEELS

- New **19" AMG two-piece** alloy wheels² in **Sterling Silver** finish
– Same design as S 65, but different color

OPTIONAL S 600 WHEELS

- Four **18" 5-spoke** alloy wheels
- No-cost option on S 600
– Not available on other models or with the AMG Sport Package
– Formerly called "Appearance Package"

reduced ride comfort compared to H-rated tires. Serious wheel and tire damage may occur if the vehicle is operated on rough or damaged road surfaces or upon encountering road debris or obstacles.



S 500 Sedan with AMG Sport Package

Interior

HEATED FRONT SEATS

- Extra-cost option on **S 350** and on rear-wheel-drive **S 430**
– **Included** with no-charge 4MATIC

Options

4MATIC ALL-WHEEL DRIVE

- **No-charge option** on S 430 and S 500

AMG SPORT PACKAGE

- Optional at **no extra charge** on S 430 and S 500 models without 4MATIC
- Extra-cost option on 4MATIC-equipped models and on S 600

ADDED S 600 STANDARD EQUIPMENT

A number of items formerly optional on the S 600 are now included as standard, and one standard item becomes optional:

- Electronic trunk closer
- Heated steering wheel
- Keyless Go
- Manual sunshades for rear side windows
- The phone becomes **optional**

EXTERIOR OVERVIEW

Sleek, substantial and seductive

The S-Class is both grand in scale yet sleek in form. Its refined, elegant appearance conveys both substance and style. It boasts excellent aerodynamics and practical design considerations that promote stable handling, fuel economy and optimum safety. And unlike some of its competitors, its timeless character evokes both immediate admiration and long-term appeal. It is a true original—steeped in tradition yet fresh to the moment, aggressively modern without overstepping the boundaries of artful good taste.



S 600 Sedan

DESIGN HIGHLIGHTS

- A large, stand-up Three-Pointed Star is located prominently above the chrome-trimmed, horizontally oriented grille.
- Multi-element, clear-lens projector headlamps, with integrated parking lamps and front foglamps, enhance vision and contribute to a distinctive yet familial appearance.
- Stylish aluminum-alloy wheels in a variety of designs and sized from 17" to 19" are both attractive and light in weight for enhanced handling.
- No-charge AMG Sport Package on S 430 and S 500 models without 4MATIC™ adds to sporty appeal, performance and value
- Aerodynamic, automatically heated side mirrors are designed to help keep the side windows cleaner when driving in the rain, while integrated turn signals provide an added measure of safety.
- Standard bodyside rub strips help protect against minor dents and dings.
- Clean, one-piece designs of the front and rear bumpers help minimize the number of gaps in the body.
- Advanced manufacturing processes minimize the size of all body panel gaps.
- Highly visible taillamps feature LED brake lamps and a modern interpretation of the ribbed taillamp theme found on every S-Class since 1972.

MODEL DIFFERENCES

Distinguishing exterior features of the **S 350**:

- 116.7" wheelbase (unique in the S-Class)
- 17" 5-twin-spoke alloy wheels
- Multi-element halogen headlamps

Distinguishing exterior features of the **S 430** and **S 500**:

- 17" 7-spoke wheels (with 4MATIC), or
- AMG Sport Package with:
 - 18" AMG wheels and Z-rated tires³
 - AMG-design lower bodywork
- Bi-Xenon headlamps with washers (S 500)

Distinguishing **S 55 AMG** exterior features (compared to S 500 with Sport Package):

- Staggered-width 19" AMG two-piece alloy wheels³ in Sterling Silver finish
- Four chrome exhaust tips
- "V-8 KOMPRESSOR" front fender badges

Distinguishing exterior features of the **S 600** (compared to S 500):

- 18" forged 6-hole alloy wheels³
- Dual chrome exhaust tips
- "V-12" badges on front fender rub strips
- Keyless Go
- Parktronic system

Distinguishing **S 65 AMG** exterior features (compared to S 55 AMG):

- Staggered-width 19" AMG two-piece alloy wheels³ in Anthracite finish
- "V-12 BITURBO" front fender badges
- Keyless Go

EXTERIOR STYLING WALKAROUND

Front 3/4 features

HEADLAMPS

The headlamps on every S-Class model integrate all front-end lighting elements into a single jewel-like assembly.

- S 350 and S 430: **halogen headlamps.**



BI-XENON HEADLAMPS

- Optional on S 350 and S 430 as part of the **Lighting Package**
- Standard on all other models

◆ MORE INFO: TECH GUIDE | P. 22

HALOGEN FRONT FOGLAMPS

- Located in front bumper on all models
- ★ provide increased illumination in inclement weather

◆ MORE INFO: TECH GUIDE | P. 22

GRILLE AND HOOD

The aluminum hood incorporates the large chrome-accented grille.

- Affords an **elegant appearance** worthy of a Mercedes-Benz flagship sedan
- Equipped with **two locks** (one per side)
 - ★ for added safety and security
- **Gas struts** assist in opening the hood
 - ★ help to balance the hood when raising or lowering it

Side features

Overall, the body of the S-Class is **well-balanced and athletically proportioned**

- An arching roofline and wedge profile
- Sleek, pronounced shoulderline runs the length of the body.
- Fender flares accentuate the wheels.
 - ★ offers a more aggressive stance
 - ★ lower bodyside moldings help protect bodywork from door dings

DOORS

The S-Class doors are **generously sized.**

- ★ allows greater ease of ingress/egress
- ★ stout hinges and wedge-shaped strikers help resist jamming in a side impact

A **pneumatic closing system** draws each door tight once it is latched.

- ★ prevents need to slam doors shut

HIGH-TECH GLASS

All windows, including the windshield, are:

- laminated for reduced noise penetration
- infrared-reflecting
- ultraviolet light-absorbing

◆ MORE INFO: TECH GUIDE | P. 50



S 430/S 500 + 4MATIC – 17"



4MATIC/S 600 + Sport Pkg – 18"



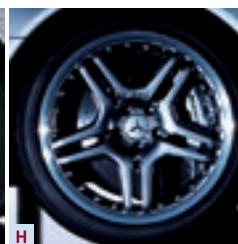
S 55 AMG – 19"



S 600 – 18"



S 600 option – 18"



S 65 AMG – 19"

WHEELS AND TIRES

Generously sized aluminum-alloy wheels help distinguish each model:

- Wide **17"**, **18"** or **19"** wheels are standard or optional (see chart at right).
- AMG models and rear-wheel-drive models with the AMG Sport Package feature **staggered-width wheels¹** (rear wheels wider than the front wheels).
 - ★ more aggressive appearance
 - ★ wider rear tires enhance grip under acceleration
 - ★ front tires optimally sized for steering response without unwanted feedback
- The **S 55 AMG** and **S 65 AMG** feature lightweight **AMG two-piece 19" wheels¹**.
 - ★ offer the ultimate combination of style and handling

◆ MORE INFO: TECH GUIDE | P. 10



S 350 – 17"



S 430/S 500 + Sport Pkg – 18"

WHEELS AND TIRES BY MODEL

Model	Wheel style and size	Tire size and type
S 350	5-twin-spoke (photo A)	7.5Jx17 225/55 R17 all-season
S 430 and S 500		
AMG	AMG	F: 8.5Jx18 245/45 ZR18
Sport Package (RWD)	double-spoke (photo B)	R: 9.0Jx18 265/40 ZR18 high-performance ²
4MATIC	7-spoke (photo C)	7.5Jx17 225/55 R17 all-season
AMG Sport Package + 4MATIC	AMG thin-spoke (photo D)	8.5Jx18 245/45 ZR18 high-performance ²
S 55 AMG	AMG 2-pc Silver (photo E)	F: 8.5Jx19 245/40 ZR19 R: 9.5Jx19 275/35 ZR19 high-performance ²
S 600	6-hole (photo F)	8.0Jx18 245/45 ZR18 high-performance ¹
AMG Sport Package	Same sizes as S 500 with AMG Sport Pkg (photo D)	
Wheel option	5-spoke (photo G)	8.0Jx18 245/45 ZR18 high-performance ¹
S 65 AMG	AMG 2-pc Anthracite (photo H)	F: 8.5Jx19 245/40 ZR19 R: 9.5Jx19 275/35 ZR19 high-performance ²

¹ AMG 18" and 19" wheels and accompanying high-speed-rated tires provide substantially increased treadwear and reduced ride comfort compared to H-rated tires. Serious wheel and tire damage may occur if the vehicle is operated on rough or damaged road surfaces or upon encountering road debris or obstacles.

² Z-rated tires are optimized for performance driving and may provide reduced ride comfort, increased tire noise, substantially increased treadwear and greater susceptibility to damage compared with H-rated tires.

Please make sure that your customers are aware of the above during the sales process.

EXTERIOR STYLING WALKAROUND **continued**

Aerodynamics

COEFFICIENT OF DRAG

Extensive **wind-tunnel testing** helped the S-Class achieve its favorable aerodynamics characteristics.

- Low 0.27 **coefficient of drag** (Cd):
 - ★ low wind noise
 - ★ optimum fuel efficiency
 - ★ enhanced stability at highway speeds



WATER MANAGEMENT

Extensive measures were taken to **manage the flow of water** while driving in the rain.

- Deep channels in the A-pillars direct water onto the roof, while channels on the roof guide water to the rear.
- Water tends to flow rearward, around the rear window and off the body.
- Exterior mirrors help divert water away from the front side windows.
 - ★ helps maintain optimal driver vision through all windows

Rear 3/4 features

TAILLAMPS

The S-Class taillamps are **aerodynamically designed** with four white ribs incorporating the turn signals and backup lamps.

- ★ helps to resist the buildup of dirt and snow on the taillamp lenses
- ★ enhances visibility in inclement weather

- The **brake lamps** use light-emitting diodes (LEDs) rather than ordinary bulbs.
 - ★ LEDs illuminate more rapidly to alert the driver behind you with less delay
 - ★ longer life expectancy
- A **single red rear foglamp** is integrated in the driver-side taillamp cluster.
 - ★ increases the car's visibility to vehicles traveling behind it in foggy conditions



ANTENNA SYSTEMS

- The **AM/FM radio antenna** is embedded in the rear window glass.
 - ★ reduces chance of damage from vandalism or automatic car washes
 - ★ generates no wind noise
- The **GPS antenna** for the Tele Aid and navigation systems is mounted near the top of the rear window.
- The antenna for optional **SIRIUS Satellite Radio** installs on the trunk lid.

TRUNK

The trunk lid of every S-Class opens at bumper height, for a low liftover height.

- ★ facilitates loading and unloading of cargo

An illuminated green button allows the trunk to be **opened from inside**. The lamp stays on for 30 minutes after the lid is closed.

- ★ helps prevent being trapped in trunk

The trunk can be **opened remotely** via the SmartKey or an interior switch mounted on the driver's door panel.

A **trunk handle** automatically extends from above the license-plate recess when the trunk lock is pressed. It retracts after the trunk lid is closed.

- ★ helps keep users hands cleaner
- ★ helps reduce fingerprints and scratches on the paintwork

TRUNK CLOSING ASSIST

- Standard on S 350, S 430, S 500 and S 55 AMG
- Device snugs the lid closed once the user sets the lid onto the latch
- ★ provides gentle closure and eliminates the need to slam trunk lid

ELECTRONIC TRUNK CLOSER

- Standard on S 600 and S 65 AMG
- Optional on other models
- Full power opening and closing of trunk at the touch of a switch
- ★ provides effortless convenience of virtually "hands-free" trunk opening and closing

◆ MORE INFO: S-CLASS GUIDE | P. 12

Exterior details

VISION AND VISIBILITY

Windshield wipers use a dual-arm design with an **eccentric-sweep** mechanism on the passenger-side wiper arm that allows it to reach further into the top right corner.

- ★ increases area swept by wipers

Windshield washer nozzles, lines and the fluid reservoir are all heated.

- ★ heated fluid is more effective, especially in cold weather
- ★ helps prevent fluid in reservoir from freezing

◆ MORE INFO: TECH GUIDE | P. 23



HEATED POWER MIRRORS

The standard power-adjustable side mirrors are **automatically heated**.

- Left-side mirror is **auto-dimming**.
- Driver's seat **memory** includes the positions of the side mirrors.
- Housings integrate **LED turn signals**, as well as **courtesy lamps** underneath.
- Mirrors feature **power fold-in** feature.
 - Can be programmed via multifunction display to **fold in automatically** when car is remote-locked (and unfold when it is unlocked)

◆ MORE INFO: TECH GUIDE | P. 24

EXTERIOR OPTIONS

designo editions

THREE EDITIONS FOR 2006

designo editions—optional on all models except the S 350—feature **exclusive metallic paint** choices:

- *designo* **Silver** (Silver Edition, available on S 430, S 500 and S 600 only)
- *designo* **Mocha Black** (Espresso Edition)
- *designo* **Graphite** (Graphite Edition)

*designo* Silver Edition*designo* Espresso Edition*designo* Graphite Edition

AMG Sport Package

- Optional on S 430, S 500 and S 600
 - No charge on S 430 and S 500 unless ordered in combination with 4MATIC™
- Includes **AMG-design lower bodywork** (nearly identical to S 55 AMG, at right):
- Also includes **AMG wheels**¹
 - **Double-spoke** design on S 430/S500
 - **Thin-spoke monoblock** design on S 430/S 500 with 4MATIC and S 600
- Staggered-width **high-performance tires** on rear-wheel-drive models:
 - **245/45ZR 18** front
 - **265/40ZR 18** rear

★ *wheel/tire setup offers enhanced roadholding characteristics*
- Same-size **high-performance tires** on 4MATIC models:
 - **245/45ZR 18** front and rear

★ *helps minimize undesirable effects of wide tires on handling in snow*

◆ MORE INFO: S-CLASS GUIDE | P. 10

¹ AMG 18" and 19" wheels and accompanying high-speed-rated tires provide substantially increased treadwear and reduced ride comfort compared to H-rated tires. Serious wheel and tire damage may occur if the vehicle is operated on rough or damaged road surfaces or upon encountering road debris or obstacles.



S 500 with AMG Sport Package

S 55/S 65 AMG highlights

To match their extraordinary power, the S 55 AMG and S 65 AMG feature several enhancements that reflect their high-performance nature.

AMG-DESIGN LOWER BODYWORK

- Dramatic **front apron** with wire mesh inserts for air intakes
- Chiseled **side skirts**
- Contoured rear bumper and **apron** with four oval **stainless-steel exhaust tips** (two per side)

STAGGERED-WIDTH WHEELS AND TIRES

- Two-piece **AMG double-spoke wheels**¹:
 - **8.5 x 19** front, **9.5 x 19** rear
 - S 55 AMG: Sterling Silver finish
 - S 65 AMG: Anthracite finish

★ *optimizes brake ventilation while enhancing appearance*
- **High-performance tires**:
 - **245/40ZR 19** front
 - **275/35ZR 19** rear

★ *wheel/tire setup offers enhanced roadholding characteristics*

² Top speed electronically limited to 155 mph. Obey all speed laws.



S 55 AMG

Other exterior options

ELECTRONIC TRUNK CLOSER

- Standard on S 600 and S 65 AMG
 - Optional on all other S-Class models
 - Full power opening and closing of trunk lid via SmartKey remote, driver's door panel or underside of open trunk lid
- ★ *adds greatly to convenience when approaching or leaving car with an armful of packages, especially in the rain*

◆ MORE INFO: TECH GUIDE | P. 48



5-SPOKE ALLOY WHEELS

- No-charge option on S 600 without AMG Sport Package

◆ MORE INFO: S-CLASS GUIDE | P. 10

INTERIOR OVERVIEW

True luxury

As the flagship sedans of the Mercedes-Benz lineup, the S-Class offers an unparalleled array of comfort and convenience features. The interior of every S-Class is marked by tasteful design, rich materials and abundant space in every direction.

Furthermore, virtually everything inside the S-Class is designed to be user-friendly and logical, to promote high levels of both comfort and safety.



S 430 Sedan



S 600 Sedan



S 600 Sedan wood-trimmed assist handle and vanity mirror

DESIGN HIGHLIGHTS

- Hand-finished genuine wood and elegant chrome trim
- Clear, logically arranged controls highlighted by large, electroluminescent analog gauges
- Switches and dials designed for both comfort and ease of use
- Abundant vents for excellent air circulation throughout the cabin
- Available 4-place seating package on long-wheelbase models, offering rear-seat accommodations with nearly the same level of adjustability as those of the front

MODEL DIFFERENCES

Distinguishing **S 350** interior features:

- Premium leather upholstery
- Hand-finished Calyptus wood trim on the dash, console, doors and shift gate

Distinguishing **S 430** features (vs S 350):

- Heated front seats on models with no-charge 4MATIC
- Power rear-window sunshade

Distinguishing **S 500** features (vs S 430):

- Glove-soft Nappa leather upholstery
- Burl Walnut wood trim
- Heated front seats

Distinguishing **S 55 AMG** features (vs S 500):

- AMG-design upholstery in Nappa leather with perforated leather inserts and metal AMG badges
- Active Ventilated and Drive-Dynamic front seats (with heating feature)
- AMG-design instrument cluster with a 200-mph speedometer²
- AMG-design sport steering wheel with thumbgrips and fingertip shift controls
- AMG-design door sill trim
- Integrated trunk-mounted 6-CD changer

Distinguishing **S 600** features (vs S 500):

- Exclusive Nappa leather interior treatment (including doors, dash and rear shelf)
- Alcantara on pillars, visors and ceiling
- Dynamic multicontour front seatbacks
- Power rear seats with dual adjustable lumbar supports
- Heated front and rear seats
- Leather and wood trimmed steering wheel and shift knob
- Heated steering wheel
- Additional wood trim (on overhead console, overhead assist handles, rear vanity mirror covers, rear ashtrays and rear cupholder cover)
- 4-zone climate control
- Manual sunshades for rear side windows
- Keyless Go
- Integrated trunk-mounted 6-CD changer
- Electronic trunk closer
- Parktronic parking-assistance system

Distinguishing **S 65 AMG** features (vs S 55):

- Heated front and rear seats
- Manual sunshades for rear side windows
- 220-mph speedometer²
- Keyless Go
- Electronic trunk closer

LAYOUT AND CONTROLS

Driving environment

The lavish, spacious driving environment of the S-Class features **logically oriented instruments and controls**. Secondary controls are conveniently arranged for quick operation with minimal effort.

★ provides the driver with instant access to critical vehicle information

INSTRUMENTS

The analog gauge cluster places the speedometer in a **prominent central location**, with a tachometer and gauges for coolant temperature and fuel level to either side, along with a digital clock.

- Gauges are **electroluminescent** and backlit whenever the vehicle is running. – Illumination automatically adjusts to ambient light.
★ enhances appearance and clarity
- A standard **multifunction display** is located within the speedometer and is operated via the steering-wheel controls.
- Warning and indicator lamps** are incorporated into the instrument cluster and are visible only when illuminated.
★ messages in multifunction display and warning lamps help keep driver informed of critical vehicle conditions

STALK CONTROLS

- The **Touch Turn Signal** feature flashes a turn signal three times with a tap of the stalk.
★ adds convenience to lane changes
- Tapping the **cruise control** stalk up or down allows the driver to adjust the set speed up or down in 1-mph increments.
- Available **voice control** for the phone, audio and navigation systems is activated by tapping the upper right stalk.

LIGHTING CONTROLS

- The “Auto” setting of the headlamp switch turns on the headlamps automatically in darkness. A **multi-element sensor looks ahead**, not just up, to provide more rapid response to dim light without unwanted oversensitivity to shade and shadows.
★ instantly turns on lights when driving into a dark garage or tunnel
★ enhances vision, convenience and safety
- Front and rear foglamps** are turned on by pulling the headlamp control outward:
 - **one** detent: **front foglamps**
 - **two** detents: both the front foglamps and single **red rear foglamp** together
 ★ conveniently places all exterior lighting on–off functions in one switch

OTHER CONTROLS

- Power windows all feature **one-touch express-up/down** control.
- A **lockout** control deactivates the window switches in the passenger doors.
★ helps prevent unwanted operation
- Power front seat controls feature **seat-**

shaped switches on each front door.

- The **Keyless Go**¹ engine start/stop button is located atop the gearshift knob.
- The multifunction display includes a **tire-pressure monitoring system**.

◆ MORE INFO: TECH GUIDE | P. 21



S 600 Sedan

LAYOUT OF CONTROLS (left to right)

Driver's door panel (top to bottom)

- Heated/Active Ventilated¹ driver's seat (if equipped)
- 12-way power driver's seat and memory
- Power side mirrors, including power fold-in
- Power windows, with lockout for passenger controls
- Trunk opener or electronic trunk opener/closer

Left dash panel (top to bottom)

- Main headlamp control
- Headlamp washers¹
- Parking brake release (pedal is on left side of footwell)

Instrument cluster

- Analog coolant temperature and fuel level gauges, clock, speedometer, tachometer (left to right)
- Digital outside temperature indicator
- Multifunction display (in center of speedometer)
- Transmission gear range/mode, digital clock
- Warning lamps (concealed within instrument cluster)

Steering column

- Upper left stalk: Cruise control
- Main left stalk: Turn signals/wipers/headlamp beams
- Lower left stalk: Power steering column (and heated steering wheel, if equipped)
- Upper right stalk: Voice control system¹ (if equipped)

Center dash panel (top to bottom)

- Parktronic distance indicators for front sensors (atop dash on left side and at center)
- Main switch bank (left to right): Power rear sunshade¹; Parktronic¹ deactivation, ABC¹/Airmatic Sport mode, ride height control, central door lock, hazard flashers, central door unlock, ESP off, rear head-restraint retractor, antitowaway protection defeat (and anti-theft alarm indicator)
- COMAND with in-dash CD and DVD navigation (DVD drive is in trunk)
- Climate controls
- Ashtray and 12-volt power outlet with lighter

Center console

- Gearshift (with Comfort/Sport mode button)
- Keyless Go¹ start/stop (atop shift knob)
- DISTRONIC¹ controls, passenger air-bag off indicator
- Cupholders (inside armrest)
- Tele Aid i-button and wrench button (inside armrest)

Overhead console

- Tele Aid SOS button
- Sunroof controls
- Cabin lighting and dual reading lamps
- Garage door control (underneath rearview mirror)

¹ Optional on some models. See Equipment charts.

AUDIO, NAVIGATION AND COMMUNICATION

COMAND system

The standard Cockpit Management and Data (COMAND) system combines numerous audio and communication features into a **single control panel**:

- AM/FM stereo/weatherband **radio**
- A large **6.5" color-LCD screen**
- Integrated **single-disc CD player**, concealed behind the sliding screen
- **DVD-based navigation system**, with DVD drive in trunk
 - ★ allows simultaneous use of in-dash audio-CD player and navigation system
- **Hands-Free Communication System** with voice-activated phone
 - Optional on all models for 2006

◆ **MORE INFO: TECH GUIDE | P. 38–41**



COMAND showing navigation screen

DVD-BASED NAVIGATION²

- State-of-the-art **GPS navigation system**
- Provides on-screen maps for the contiguous U.S., Canada and Oahu, Hawaii, on a single DVD
 - Includes 3-D and overhead map modes
- Determines vehicle location on an ongoing basis via GPS satellites plus vehicle speed and steering wheel sensors.

MULTIFUNCTION CONTROLS AND DISPLAY

Volume, tuning and CD track selection—along with basic features of the navigation system and phone—can be accessed via the **multifunction steering-wheel controls**.

★ allows commonly performed adjustments without taking hands off the steering wheel

- The **multifunction display** can show:
 - Radio station and preset number
 - CD number and track
 - Optional SIRIUS satellite radio channel
 - Digital speed, outside temperature, and distance to next maintenance service
 - Tire-pressure monitoring system
 - Navigation instructions
 - Optional Distronic information
 - Fuel economy, distance to empty, and trip computer data
 - Phone book (when equipped)
 - Programmable vehicle settings

★ minimizes diversion of driver's attention



Multifunction display showing tire-pressure monitor



Multifunction steering-wheel controls

Audio system

BOSE DIGITAL SURROUND SOUND

The standard Bose® Cabin Surround sound system in the S-Class utilizes innovative technologies and strategic location of its 12 speakers to deliver superior sound quality.

- **Bose AudioPilot™ technology** constantly monitors sound within the cabin and **seamlessly compensates** for unwanted noise with no perceived change in audio volume.
- **Digital Bose Cabin Surround™ sound architecture** features independent front and rear digital surround-sound channels.
 - ★ accurate 360-degree digital surround sound for playback of audio CDs and satellite radio at every seating position
- **Bose Centerpoint™ signal processing** provides 5.1-channel digital surround sound even from conventional stereo CDs
- **12 speakers include:**
 - Two surround speakers on the rear shelf
 - A center fill speaker in the dash
 - A high-efficiency 10" Neodymium Iron Boron woofer in the rear shelf

◆ **MORE INFO: TECH GUIDE | P. 39**

² While the navigation system provides directional assistance, the driver must remain focused on safe driving behavior, including paying attention to traffic and street signs. The driver should utilize the system's audio cues while driving and should only consult the map or verbal displays once the vehicle has been stopped in a safe place. DVD-ROM maps do not cover all areas nor all routes within an area.

³ First year's Tele Aid Security & Care service provided at no additional cost with subscription. Subscription and acquaintance call required for service to be active. System operates only where cellular and GPS coverage are available, and requires adequate power supply.

CD CHANGER

The **integrated 6-disc CD changer** is located in the left side well of the trunk, under a protective cover.

- Standard on S 55 AMG, S 600 and S 65 AMG
- Optional on S 350, S 430 and S 500
- Fully integrated with COMAND and Bose
- Connected via fiber-optic network
 - ★ convenient operation
 - ★ seamless integration with vehicle systems
 - ★ concealed installation enhances security
 - ★ allows occupants to listen to hours of music without having to change CDs



COMAND showing SIRIUS screen

SIRIUS SATELLITE RADIO

Optional SIRIUS Satellite Radio seamlessly integrates with the standard COMAND head unit and all factory audio systems.

◆ **MORE INFO: TECH GUIDE | P. 39**
ANTENNA LOCATIONS: S-CLASS GUIDE | P. 11

TELEMATICS

Tele Aid is standard on all models.³

◆ **MORE INFO: TECH GUIDE | P. 52, 54**

SEATING AND TRIM

Seating

A spacious cabin, highly adjustable seats and opulent materials endow each S-Class with a truly luxurious environment to suit the most discriminating of tastes.

CONSTRUCTION

All S-Class seats are constructed using durable, “breathable” seat foam.

★ *contributes to long-term durability and comfort*

- Front seats offer **deep, padded side bolsters** for comfort and support.
- Rear seats can accommodate up to three passengers and include a folding center armrest with enclosed storage and retractable dual cupholders.



Power seat control

HEATED FRONT SEATS

- Offer two settings: **rapid heating** and **moderate warming**
- Optional on S 350 and S 430
 - Included with no-cost 4MATIC™ on S 430
- Standard on all other models

◆ **MORE INFO:** TECH GUIDE | P. 45

Front seat adjustment

POWER FRONT SEATS

- Standard **14-way power adjustment** for **both front seats**:
 - Fore-aft
 - Seat cushion length
 - Seat height
 - Cushion tilt at front
 - Cushion tilt at rear
 - Seatback angle (recline)
 - Head restraint height
- Adjusted via **seat-shaped switches on the front doors**.
- Standard **pneumatic lumbar support** is adjustable via a thumbwheel on the inside corner of the seat cushion trim.



MEMORY SYSTEM

- Every S-Class also includes:
 - **3-position memory** for both front seats (with the driver's seat memory recalling the position of the steering column and exterior mirrors)

POWER STEERING COLUMN

- Every S-Class also includes:
 - A **4-way power steering column**, adjusted via a stalk on the lower left side of the steering column
 - An **easy-exit feature** that can be set via the multifunction display to move the driver's seat back almost 2.5 inches and/or raise the steering wheel to the highest position automatically when the key is removed from the ignition

Rear seats

BENCH SEAT

- Standard on S 350, S 430, S 500 and S 55 AMG
- Includes:
 - A folding center armrest with enclosed storage under the padded lid
 - Retractable dual cupholders that slide out from the front edge of the lowered armrest



Standard rear bench seat shown in an S 500

POWER BENCH SEAT

- Standard on S 600 and S 65 AMG
- Optional on all other models
- Operated via **seat-shaped controls** in each rear door
 - Right rear passenger can also move unoccupied right **front seat** forward.
- See “Seating options,” at right

4-PLACE SEATING PACKAGE

- Optional on S 55 AMG, S 600 and S 65 AMG
- See “Seating options,” at right

Head restraints

FRONT HEAD RESTRAINTS

- Adjust for **height and angle**, with “clamshell” design hinged at the top so the **bottom** of the head restraint moves fore and aft
- Include power height control
- ★ *helps position head restraint properly*
- Note: **Automatic setting** of height based on fore-aft seat movement was **deleted on S-Class models for 2005**, based on customer input.

REAR HEAD RESTRAINTS

Manually **height-adjustable** head restraints are standard for **all rear seating positions**.

- Rear head restraints can be retracted in either of two ways:
 - Each is **individually retractable**, folding flat when a button on the side of the head restraint is pushed.
 - All models also feature **remote-retractable** rear head restraints, operated via a switch on the dash.
- ★ *enhances driver's rearward vision when the rear seats are unoccupied*
- ★ *remote control enhances convenience*
- On models with power rear seats:
 - Rear head restraints **rise automatically** when the seated occupant fastens the seat belt.
 - Head restraints can also be raised and retracted electrically, together via the dashboard switch or individually via each rear seat control.
- ★ *enhances occupant safety*

SEATING AND TRIM **continued**

Upholstery and trim

The materials found in the S-Class interior reflect high standards, including:

- Hand-polished **wood trim** enhanced with **chrome** edging
- **Fine velour carpeting**
- Stylish **stainless-steel** door sill trim
- ★ *adds a high-quality look and feel*

S 350 AND S 430

- Standard **premium leather** upholstery on all seat surfaces, plus door trim inserts and center armrests
 - Colors: **Charcoal, Java, Stone, Ash**
- Glove-soft **Nappa leather** seating optional on S 430 in same four colors
- Hand-polished **Calyptus wood** trim
- Optional **Burl Walnut or Chestnut wood** (special order¹)



S 430 Sedan

S 500

- **Nappa leather** in seating areas
 - Premium leather upholstery on other seat surfaces, plus door trim inserts and center armrests
 - Colors: **Charcoal, Java, Stone, Ash**
- Hand-polished **Burl Walnut wood** trim
- Optional **Chestnut wood** (special order¹)



S 55 AMG Sedan

S 55 AMG AND S 65 AMG

- **AMG-design Nappa leather** seating with perforated inserts
 - Premium leather upholstery on other seat surfaces, plus door trim inserts and center armrests
 - Colors: **Charcoal, Java, Ash**
- Hand-polished **Burl Walnut wood** trim
- Optional **Chestnut wood** (special order¹)
- Metal **AMG badges** in seatbacks

S 600

- **Exclusive leather interior** treatment:
 - **Nappa leather** upholstery on all seat surfaces, plus dashboard, doors, door trim inserts, center armrests and rear shelf
 - Colors: **Charcoal, Java, Stone, Ash**
- Suede-like Alcantara on the pillars, ceiling and sun visors
- Hand-polished **Burl Walnut wood** trim
 - Includes **additional wood trim** on steering wheel, shift knob, overhead assist handles, rear cupholder cover and rear vanity mirror covers
- Optional **Chestnut wood** (special order¹)

Seating options

ACTIVE VENTILATED FRONT SEATS

- Use **miniature internal fans** to draw air from beneath the seat and expel it through perforations in the upholstery
- Optional: S 350, S 430 and S 500
- Standard: S 55 AMG, S 600 and S 65 AMG

◆ **MORE INFO: TECH GUIDE | P. 45**



Active Ventilated seat control

DYNAMIC MULTICONTOUR FRONT SEATBACKS

- **Pneumatically adjustable chambers:**
 - Three in the lumbar region
 - Two near the shoulders
 - One in each side bolster
- Slowly **pulsating massage** feature, using the central lumbar chamber
- Optional on S 430 and S 500
- Standard on S 600

◆ **MORE INFO: TECH GUIDE | P. 45**

DRIVE-DYNAMIC FRONT SEATS

- Automatically **inflate and deflate the side bolsters** to provide added lateral support in response to cornering forces
- Standard on S 55 AMG and S 65 AMG
- Not available on S 430, S 500 and S 600
- Include **dynamic** multicontour seatbacks

◆ **MORE INFO: TECH GUIDE | P. 45**

POWER REAR BENCH SEAT

- Standard on S 600 and S 65 AMG
- Optional on all other models
- Power-adjustable **seatback angle**—via door-mounted seat-shaped switches—for each outboard position (seat slides forward 2.4 inches, while the seatback reclines about 10 degrees)
- Also includes:
 - Pneumatic **lumbar support** for each outboard position
 - A fixed center seating position
 - **Power head restraints** (from raised to retracted position, and vice-versa) that rise automatically when occupant fastens seat belt

4-PLACE SEATING PACKAGE

- Optional on S 55 AMG, S 600 and S 65 AMG
- Replaces rear bench seat with **two individual rear seats**, each featuring:
 - Power-adjustable **seatback angle**, via door-mounted seat-shaped switches (seat slides forward while seatback reclines)
 - Power seat cushion tilt
 - Dynamic multicontour seatbacks
 - **Power head restraints** (from raised to retracted position, and vice-versa)
- Includes a **rear center storage console** with a **wood-trimmed rolltop cover**, and **rear-passenger control** of the front passenger seat's position

¹ Vehicles with special-order equipment, colors or color combinations incur a one-time surcharge and may require additional production time.

COMFORT AND CONVENIENCE

Climate control

DUAL-ZONE CLIMATE CONTROL

- Standard on S 350, S 430, S 500 and S 55 AMG

Features of the system include:

- **Individual left and right temperature controls** with paddle-style up-down controls and a **digital display**
- **Individual left and right air distribution** controls feature their own automatic modes, or can be adjusted manually.
- **Blower speed** is adjusted automatically or can be controlled manually.
- Recirculation feature with **“tunnel mode”**
 - Push and hold the Recirculation button or the charcoal filter button to close all open windows and the sunroof.
 - Hold either button a second time to reopen them.
- **Four adjustable vents** in dash, plus a high-volume/low-draft dash-top diffuser outlet and four **rear-seat air vents** (one in each B-pillar, two at back of console)
- **4-way sun sensor** helps compensate for the effects of directional sunlight.
 - ★ *helps maintain more a constant temperature*

◆ MORE INFO: TECH GUIDE | P. 42–43



Dual-zone climate control

4-ZONE CLIMATE CONTROL

- Standard on S 600 and S 65 AMG
- Optional on S 430, S 500 and S 55 AMG

With the 4-zone system, the **four outboard passengers** can select their own individual settings.

- Front-cabin climate-control features are identical to the dual-zone system.
- **Rear-cabin** occupants can adjust their settings via a control panel with a digital display on the back of the front console.
- Includes controls for:
 - **Left and right temperature**
 - **Airflow** distribution
 - **Blower** speed, with **automatic** mode
 - Separate **rear-cabin REST mode**

★ *allows front and rear passengers to tailor climate setting to their desired comfort*



Rear-cabin controls for 4-zone climate control

SEAT-BELT USAGE SENSORS

The climate control system in every S-Class incorporates seat-belt usage sensors that detect if an occupant is belted in any given seat. The climate control system **focuses first on the seats that are occupied.**

★ *expedites heating or cooling the regions of the vehicle that are occupied, enhancing comfort for passengers*

REST MODE

The S-Class features a residual engine-heat utilization (REST) mode that can be used when the vehicle is parked and shut off.

- Circulates residual engine heat—or ventilates the cabin—for up to 30 minutes after engine is shut off.
 - Shuts off sooner if battery strength or engine heat are insufficient
- ★ *enhances comfort when waiting in or returning to a parked vehicle*

FILTERS AND SENSORS

All S-Class models include a number of climate-control features to help promote the comfort and well-being of their occupants:

- **Dust and pollen filter** helps trap airborne particles 5 microns or larger.



Dust filter

- **Activated charcoal filter** can be turned on to help reduce airborne odors.
- **Smog sensor** can shut off incoming air and recirculate filtered cabin air if it detects an increase in ambient pollution.
 - Smog sensor only operates while charcoal filter is switched on
- **Humidity sensor** helps prevent window fogging or overdrying of cooled air.

◆ MORE INFO: TECH GUIDE | P. 42–43

COMFORT AND CONVENIENCE continued

Convenience features

SUNROOF

Every S-Class comes standard with a **power glass sunroof** that tilts for ventilation or fully retracts into the roof.

- Made of deep-tinted **heat-reflecting** glass
- Manually retractable **sunshade** can block direct sunlight when roof is closed.
- Express-open/close feature allows one-touch operation.
 - Includes obstruction sensor
- **Memory function** recalls the last open sunroof position used, and returns directly to this position when the driver uses the express-open feature.
- Can be opened remotely with SmartKey

◆ **MORE INFO:** TECH GUIDE | P. 34

**POWER REAR-WINDOW SUNSHADE**

A **fine mesh screen** inside the cabin can be raised or lowered to help reduce glare through the rear window.

- **S350:** part of optional Rear Seat Package
- Standard on all other S-Class models
- Operated by a switch in center of dash
- Includes **one-touch** express-up/down
 - ★ *helps shield rear seat area from direct sunlight without significantly compromising rearward vision*
 - ★ *helps keep cabin cooler on sunny days*

CENTRAL LOCKING

All four doors, the trunk lid and the fuel filler door can be locked or unlocked via switches on the **center dash panel**.



- **Unlocking the driver's door** via the lock knob on the door—or by opening the door—also **unlocks the fuel filler door**.
- The **driveaway locking** feature can be programmed via the multifunction display to automatically lock the doors when the car reaches 9 mph.

◆ **MORE INFO:** TECH GUIDE | P. 34

GARAGE DOOR CONTROL

HomeLink® compatible garage door openers and security gates can be operated by a programmable **3-button control** integrated into the rearview mirror housing.

◆ **MORE INFO:** TECH GUIDE | P. 35

POWER WINDOWS

Power windows in every door are operated by a master control panel on the driver's door, or by individual switches on each door.

- **Express-up/down** feature fully opens or closes a window with a single push on the window button (past the detent).
- **Obstruction sensor** reverses a rising window if an obstruction is detected during express-up operation.
- **SmartKey** can remotely operate windows.

◆ **MORE INFO:** TECH GUIDE | P. 32, 50

REMOTE TRUNK OPENER

Pressing the trunk opener button on the driver's door **for 1.5 seconds** opens the trunk lid when the vehicle is stationary.

AUTO-DIMMING REARVIEW MIRROR

Dual sensors on the inside mirror compare the light in front of the car and entering from behind the car, and **darken the inside and left-side mirrors gradually** via an electrochromic film behind the mirror lens.

- **Standard** on all models
- Incorporates **dual map reading lamps**
 - ★ *reduces reflected glare of the headlamps of following vehicles*
 - ★ *enhances driver comfort, nighttime vision and safety*

- Auto-dimming feature is **cancelled automatically** if driver shifts to **Reverse** or an **interior lamp** is switched on.
 - ★ *improves rearward vision at night*

VANITY MIRRORS

- **Four illuminated vanity mirrors** are **standard**.
 - Front mirrors in sun visors.
 - Rear mirrors fold down from ceiling.

CRUISE CONTROL

- Cruise control is **standard** on all models.
- **Distronic** adaptive cruise control is optional.

◆ **MORE INFO:** TECH GUIDE | P. 46

**AMBIENT INTERIOR LIGHTING**

Soft **environmental comfort lighting** provides a **gentle glow** to front and rear footwells, all door handles and the console.

- **Amber LEDs** provide gentle illumination.
- **Automatically activated** in darkness, regardless of headlamp use

◆ **MORE INFO:** TECH GUIDE | P. 50

12-VOLT POWER OUTLETS

- One with the lighter in the **front ashtray**
- One in **each rear ashtray** (in the doors)

TRIP COMPUTER

A digital trip computer in the **multifunction display** (see page 15) can show useful **traveling information** such as average speed, fuel economy, and distance to empty.

◆ **MORE INFO:** TECH GUIDE | P. 49

**RAIN SENSOR**

- Rain-sensing **intermittent wipers** are **standard** on all S-Class models.

◆ **MORE INFO:** TECH GUIDE | P. 50

COMFORT AND CONVENIENCE continued

Comfort options

KEYLESS GO

- Standard on S 600 and S 65 AMG
- Optional on all other models
- ◆ **MORE INFO:** TECH GUIDE | P. 48

DISTRICTON ADAPTIVE CRUISE CONTROL

- Optional on all models
- ◆ **MORE INFO:** TECH GUIDE | P. 46

PARKTRONIC PARKING ASSISTANCE

- Standard on S 600
- Optional on all other models
- ◆ **MORE INFO:** TECH GUIDE | P. 51

REAR SIDE-WINDOW SHADES

- Manual **roller-type** shades for the rear side-door windows
- Standard on S 600 and S 65 AMG
- Optional on all other models
- ★ *helps keep rear cabin cooler on sunny days*
- ★ *adds privacy for rear-seat passengers*

HEATED STEERING WHEEL

- Standard on S 600
- Optional on S 350, S 430 and S 500
- Not available on S 55 AMG, S 65 AMG or with *designo* editions
- ◆ **MORE INFO:** TECH GUIDE | P. 51

WOOD AND LEATHER STEERING WHEEL

- Available in **Burl Walnut** or **Chestnut** wood to match the interior
- Optional on S 350, S 430 and S 500
- Standard on S 600
- Requires special-order Burl Walnut or Chestnut wood trim¹ on S 350 and S 430
- Included in S 430, S 500 and S 600 *designo* editions with matching wood
- Not available on S 55 AMG

designo editions

THREE EDITIONS FOR 2006



- *designo* **Silver Edition:**
 - Optional on S 430, S 500 and S 600
 - Not available on S 55 AMG or S 65 AMG
 - Stone interior with Stone Nappa leather and Brown Poplar wood trim



- *designo* **Espresso Edition:**
 - Optional on all models except S 350
 - Charcoal interior with Light Brown Nappa leather and Natural Elm wood



- *designo* **Graphite Edition:**
 - Optional on all models except S 350
 - Charcoal interior with Graphite Nappa leather and Brown Poplar wood

◆ **MORE INFO:** TECH GUIDE | P. 56

CARGO AND STORAGE

Cabin storage areas

MULTIPLE COMPARTMENTS

The S-Class can accommodate a variety of items in its abundant storage areas:

- A full-size **illuminated glovebox** with a compartment for pens, cards, etc.
- A **small drawer** in the console
- A **pocket** in each door



- **Front center console** featuring two levels of storage, with illumination and a climate control vent in the lower compartment
- **Parcel net** in front passenger's footwell
- Gathered **magazine pockets** on the back of each front seat
- Compartments in the front trim panel of each **front seat**
- Storage inside the **rear center armrest**

CUPHOLDERS

- Two in the **front center console**, in the right segment of the center armrest
- Two in the **rear center armrest**

Cargo area

TRUNK

The S-Class sedans feature a fully lined, generously sized trunk (**15.4 cu ft**) that allows easy loading and unloading of cargo through a **wide, low-liftover opening**.

- Dual trunk lamps are included.
- The hinges are fully enclosed in the trim.
- ★ *helps prevent damage to luggage*

TRUNK CLOSING ASSIST AND HANDLE

- Standard **electric closing assist** pulls the trunk lid fully snug once it is lightly latched.
- An **automatically extending handle** assists opening and closing.

◆ **MORE INFO:** S-CLASS GUIDE | P. 11

ELECTRONIC TRUNK CLOSER

- Standard on S 600 and S 65 AMG
- Optional on all other models

◆ **MORE INFO:** TECH GUIDE | P. 48
S-CLASS GUIDE | P. 11

TIE-DOWN RINGS

The S-Class includes tie-down rings in each corner of the trunk to help secure cargo and to attach accessory cargo nets.

¹ Special-order option. Vehicles with special-order items, colors or trim combinations incur a one-time surcharge and may require additional production time.

² Optional at no extra charge on S 430 and S 500. Not available on all other models.

³ Double wishbone front suspension with optional 4MATIC.

MECHANICAL OVERVIEW

Eager to please, fun to drive, born to lead

From its rock-solid foundation to its scintillating powertrains to its state-of-the-art safety systems to its smooth ride and surefooted handling, all mechanical components of the S-Class are thoroughly engineered to deliver an unparalleled combination of powerful and poised performance, confidence-inspiring safety, and irresistible driving pleasure.



S 500 4MATIC Sedan

MECHANICAL HIGHLIGHTS

- State-of-the-art **V-6, V-8, supercharged AMG V-8** and **twin-turbo V-12** engines deliver efficient power and torque that ranges from abundant to incredible.
- Standard **rear-wheel drive** offers sporty, balanced handling characteristics.
- Available **4MATIC™** all-wheel drive² ensures superb handling confidence in a variety of driving conditions in any season.
- Ultra-responsive speed-sensitive **power rack-and-pinion steering** affords precise response and confident control.
- Refined **4-wheel independent multilink suspension**³ provides crisp, responsive handling with excellent ride comfort.
- Standard Airmatic air suspension on the S 350, S 430 and S 500 further enhances ride and handling poise.
- **Active Body Control (ABC)** on the S 55 AMG, S 600 and S 65 AMG provides even more remarkable control, and virtually eliminates body roll when cornering.
- 4-wheel disc brakes with ABS help keep stops shorter and more secure. Emergency-sensing Brake Assist helps to shorten panic stops.
- Standard **safety advantages** range from our Electronic Stability Program (ESP) to the **10-way protection of eight standard air bags** to the revolutionary **PRE-SAFE®**.

ENGINES AND TRANSMISSIONS

SOHC V-6 and V-8 engines

The **3.7-liter V-6** in the new **S 350**, the **4.3-liter V-8** in the **S 430** models, and the **5.0-liter V-8** in the **S 500** models offer refined, strong and efficient performance.

S 350 BASIC ENGINE SPECS

- Peak power: **241 hp** @ 5,700 rpm
- Peak torque: 258 lb-ft @ 3,000–4,500 rpm
- Displacement: 3,724 cc



S 430 BASIC ENGINE SPECS

- Peak power: **275 hp** @ 5,750 rpm
- Peak torque: 295 lb-ft @ 3,000–4,400 rpm
- Displacement: 4,266 cc

S 500 BASIC ENGINE SPECS

- Peak power: **302 hp** @ 5,600 rpm
- Peak torque: 339 lb-ft @ 2,700–4,250 rpm
- Displacement: 4,966 cc

ENGINE FEATURES

- Die-cast aluminum block and heads
- Extremely durable SILITEC cylinder liners
- Single overhead camshafts (SOHC) with three valves per cylinder
- Two-stage intake manifold
- Twin-spark ignition
- Single balance shaft (S 350 V-6 only)
- Fuel requirement: premium unleaded gasoline (91 pump octane)

◆ MORE INFO: TECH GUIDE | P. 14–15

Supercharged 5,439-cc AMG V-8

The handcrafted **supercharged V-8** engine in the **S 55 AMG** features numerous enhancements that allow it to produce high output while retaining its docile around-town behavior and legendary Mercedes-Benz durability.



S 55 AMG BASIC ENGINE SPECS

- Peak power: **493 hp** @ 6,100 rpm
- Peak torque: 516 lb-ft @ 2,750–4,000 rpm
- Displacement: 5,439 cc

ENGINE FEATURES

- All S 500 engine features listed at left
- Handcrafted by a single AMG technician
- Hand-matched major components for exacting tolerances
- Individually balanced, reinforced crankshafts
- Enlarged fuel injectors
- Forged aluminum pistons
- Aggressively profiled camshafts
- Low-backpressure exhaust system
- Twin-spark ignition
- Intercooled, helical high-pressure supercharger
- Fuel requirement: premium unleaded fuel (91 pump octane)

◆ MORE INFO: TECH GUIDE | P. 16

Twin-turbo 5.5-liter V-12

The state-of-the-art **twin-turbocharged V-12** engine in the **S 600** is one of the world's most powerful automobile engines, yet is designed to perform effortlessly and with unmatched smoothness.



S 600 BASIC ENGINE SPECS

- Peak power: **493 hp** @ 5,000 rpm
- Peak torque: 590 lb-ft @ 1,800–3,500 rpm
- Displacement: 5,513 cc

ENGINE FEATURES

- Cast aluminum two-piece block and heads
- Extremely durable SILITEC cylinder liners
- Single overhead camshafts (SOHC) with three valves per cylinder
- Twin-spark ignition
- Hand-matched engine components for exacting tolerances
- One turbocharger per cylinder bank, integrated into exhaust manifolds
- One liquid-to-air intercooler per turbocharger, supported by a separate low-temperature cooling system
- Double-hardened, polished crankshafts
- Magnesium cylinder head covers
- Fuel requirement: premium unleaded fuel (91 pump octane)

◆ MORE INFO: TECH GUIDE | P. 15

Twin-turbo 6.0-liter AMG V-12

The handcrafted **twin-turbocharged V-12** in the **S 65 AMG** offers **the most combined horsepower and torque** of any production automobile engine.¹ And yet despite its seemingly endless supply of motive force, it is a smooth, reliable and refined engine.



S 65 AMG BASIC ENGINE SPECS

- Peak power: **604 hp** @ 4,800–5,100 rpm
- Peak torque: 738 lb-ft @ 2,000–4,000 rpm
- Displacement: 5,980 cc

ENGINE FEATURES

- All S 600 engine features listed at left
- Enlarged twin turbochargers that deliver up to 22 psi of boost pressure
- 0.6-mm increase in bore
- 6.0-mm increase in stroke
- 70% larger radiator
- Individual oil-spray piston cooling and high-flow oil pump
- Camshafts with increased lift and duration
- Optimized camshaft timing
- Newly developed oil cooler
- Extra-large low-temperature radiator for the turbochargers' intercoolers
- Fuel requirement: premium unleaded fuel (91 pump octane)

◆ MORE INFO: TECH GUIDE | P. 18

See next page for footnotes. >

ENGINES AND TRANSMISSIONS continued

Transmissions

5-SPEED AUTOMATIC

- S 350, S 600 and 4MATIC™ models
- S 55 AMG and S 65 AMG feature specific AMG modifications

◆ MORE INFO: TECH GUIDE | P. 16, 18

7-SPEED AUTOMATIC

- **Rear-wheel-drive** S 430 and S 500 only
- The industry's first 7-speed automatic transmission.

◆ MORE INFO: TECH GUIDE | P. 16, 18



OTHER TRANSMISSION FEATURES

Every S-Class transmission includes a number of enhancements designed to make driving more satisfying, such as:

- **Touch Shift** manual-style control
- **Driver-adaptive** programming
- **Comfort** mode
- **Shift into Optimum Gear**

◆ MORE INFO: TECH GUIDE | P. 16, 18

ESP

ELECTRONIC STABILITY PROGRAM

Every S-Class features our Electronic Stability Program (ESP).²

★ *ESP helps maintain the driver's intended course through a turn by correcting oversteer and understeer*

TRACTION CONTROL

ESP incorporates the functions of Automatic Slip Control, an **all-speed traction control** system.²

★ *Automatic Slip Control helps counteract wheelspin under acceleration*

◆ MORE INFO: TECH GUIDE | P. 7

¹ Based on manufacturer-published 0–60-mph acceleration, peak horsepower and peak torque of 2005 4-door sedans.

² No system, regardless of how advanced, can overcome physics or correct careless driving. Please always wear your seat belt. Performance is limited by available traction, which snow, ice and other conditions can affect. Always drive carefully, consistent with conditions. Best performance in snow is obtained with winter tires.

³ Customer has choice of 4MATIC or AMG Sport Package at no extra cost. If customer chooses no-cost AMG Sport Package, customer can then purchase 4MATIC for its regular option price.

4MATIC all-wheel drive

FULL-TIME ALL-WHEEL DRIVE

4MATIC is a **permanent, full-time all-wheel drive** system.² It is always active.

- **Optional** on S 430 and S 500 Sedan only, at **no extra charge**³ for 2006
- Includes **5-speed** automatic transmission and unique 7-spoke wheels
- 4MATIC sends torque to **all four wheels** under **normal driving conditions**:
 - 40% to the front axle
 - 60% to the rear axle
- ★ *maintains a sporty, rear-wheel-drive feel*

◆ MORE INFO: TECH GUIDE | P. 6–7

4MATIC INCLUDES 4-ETS

The 4-wheel Electronic Traction System (4-ETS) **continually balances the torque split** among the four wheels, to **counteract wheelspin** in low-traction situations.²

- 4-ETS monitors the speed of all four wheels to detect **wheel slip**, then applies individual brakes as needed and/or reduces excess engine power.

- 4-ETS ensures that power is permitted to flow to the wheel or wheels with traction, even if that's only **a single wheel**.

4MATIC offers numerous benefits:

- ★ *improved traction in all conditions*
- ★ *enhanced cornering stability*
- ★ *reduced risk of hydroplaning*

◆ MORE INFO: TECH GUIDE | P. 6–7

UNIQUE FRONT SUSPENSION

S-Class models with 4MATIC are equipped with **double wishbone front suspension** in place of the standard 4-link design.

★ *helps accommodate additional driveline components while retaining excellent ride comfort and handling characteristics*

4MATIC AND THE AMG SPORT PACKAGE

S-Class models with both 4MATIC and the AMG Sport Package³ are equipped with **four equal-size tires** in place of the customary staggered-width tires of the Package.

★ *less-wide, same-size tires provide more balanced and favorable control in snow*



S 430 4MATIC Sedan

HANDLING AND BRAKING

4-wheel multilink design

All rear-wheel-drive S-Class models come standard with a **4-wheel independent multilink suspension**.

- Front: **4-link** configuration (double wishbone on 4MATIC™ models)
- Rear: **5-arm multilink** design
- ★ provides poised, crisp, sporty handling

4-LINK FRONT SUSPENSION

For each front wheel, the 4-link design consists of:

- An upper wishbone mounted to the body
- Two lower links mounted to the front subframe
- A stabilizer bar (Airmatic models only)
- ★ helps reduce body lean in turns
- A tie rod
- ★ helps locate the wheel

5-ARM MULTILINK REAR SUSPENSION

The legendary **5-arm multilink rear suspension** virtually eliminates all unwanted types of wheel movement.

◆ MORE INFO: TECH GUIDE | P. 8



4-link front suspension

Suspension types

AIRMATIC AIR SUSPENSION

Airmatic is a pneumatic suspension system that replaces the traditional steel springs and gas-pressurized shock absorbers with electronically controlled **air spring-struts**.

- **Standard** on S 350, S 430 and S 500
- Airmatic features include:
 - **4-wheel automatic level control**
 - **Automatic lowering** at higher speeds¹
 - Driver-selectable **ride height**
- ★ expertly balances ride and handling

ADS II

ADS II is an electronically controlled system that instantly adjusts Airmatic's spring-struts to the road and driving conditions to optimize ride and handling.

- ADS automatically selects one of **four damping profiles** every time a wheel changes its **direction of up-down travel**.
- Driver-selectable **Comfort** and dual **Sport modes** vary how much body motion is required for ADS to select the next profile.

◆ MORE INFO: TECH GUIDE | P. 9



5-arm multilink rear suspension

ABC (ACTIVE BODY CONTROL)

Active Body Control is an advanced **active suspension** that features a coil spring, an electronically controlled hydraulic cylinder and shock absorber at each wheel.

- **Standard** on S 55 AMG and S 600
- **No longer offered** on S 430 and S 500
- ABC elements and features include:
 - A network of **sensors** that monitor body motions and driver inputs
 - **High-pressure hydraulics** to rapidly adjust the suspension
 - Driver-selectable **Sport mode** that offers virtually flat cornering
 - **4-wheel automatic level control**
 - **Automatic lowering** at higher speeds¹
 - Driver-selectable **ride height**
- ★ provides an unparalleled balance of smooth ride comfort, responsive handling and virtually roll-free cornering

◆ MORE INFO: TECH GUIDE | P. 9

AMG ENHANCEMENTS

The S 55 AMG features a specifically calibrated version of ABC that incorporates **firmer, AMG-tuned gas shocks**.

- ★ further sharpens the suspension's responsiveness to match the expanded performance potential of the higher-output engine, transmission and brakes

◆ MORE INFO: TECH GUIDE | P. 18

Steering

SPEED-SENSING RACK-AND-PINION

Every S-Class features precise **rack-and-pinion** steering with these features:

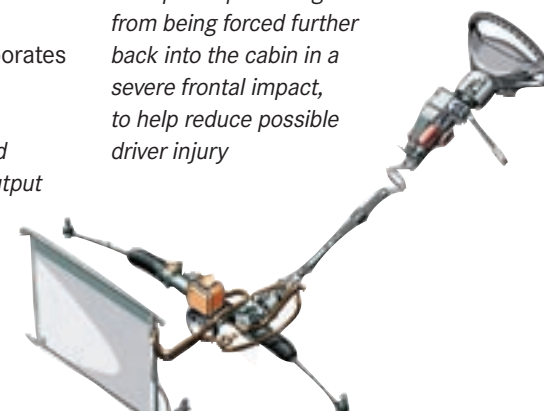
- **Vehicle-speed-sensitive** power assist
 - ★ provides greater power assist in low-speed maneuvers, such as parking
 - ★ gradually reduces power assist as driving speed increases, for greater "feel of the road" and handling response
- **Lightweight, sturdy design**
 - ★ helps optimize weight distribution
- **2.8 steering wheel turns** lock-to-lock
 - ★ offers quick response to steering inputs

A **steering damper** is incorporated into the hydraulic design.

- ★ reduces vibration and wheel shudder
- ★ helps absorb rough-road "steering shock"
- ★ enhances comfort

The **steering column** is designed to deform under the force of a severe frontal impact.

- ★ helps to maintain proper air-bag position
- ★ helps keep steering wheel from being forced further back into the cabin in a severe frontal impact, to help reduce possible driver injury



Rack-and-pinion steering

HANDLING AND BRAKING continued

Brakes

BRAKE SYSTEM HARDWARE

- **4-wheel disc brakes**, with:
 - Perforated and internally ventilated front discs (all models)
 - Ventilated rear discs (S 350, S 430 and S 500)
 - Perforated and internally ventilated rear discs (S 55 AMG, S 600 and S 65 AMG)
- Antilock Braking System (ABS)
- Emergency-sensing **Brake Assist**
- Electronic Brake Force Distribution

Every S-Class features **generously sized brake components** suited to the performance needs of each model.

★ provide excellent stopping power with minimal fade

MULTIPISTON CALIPERS

All S-Class models feature multipiston brake calipers on the front and rear brakes:

- **S 350, S 430, S 500 and S 600:**
4-piston front, dual-piston rear
- **S 55 AMG and S 65 AMG:**
8-piston front, 4-piston rear

◆ MORE INFO: TECH GUIDE | P. 12



PERFORATED ROTORS

The perforations in the brake discs are cast in place, rather than drilled after the fact.

★ cast-in-place holes do not create the stress points associated with drilling, thereby helping maintain the strength and structural integrity of the rotors

★ perforations facilitate cooling of the brake discs, maximizing stopping power with minimal fade, even in extreme use

◆ MORE INFO: TECH GUIDE | P. 12

ELECTRONIC BRAKE FORCE DISTRIBUTION

Electronic Brake Force Distribution varies the **front-to-rear** brake force depending on the **steering** situation, delivering more brake pressure to the rear brakes in **straight-line braking** than in corners.

★ ensures proper brake proportioning for differing load and maneuvering conditions

★ helps promote even brake-pad wear by allowing more rear-wheel contribution to straight-line braking compared to braking while cornering

EMERGENCY-SENSING BRAKE ASSIST

Brake Assist applies **full power braking boost** in a panic stop, which the system recognizes by the speed at which the driver presses the brake pedal.

★ potentially shortens panic stops by eliminating the delay caused by a common human tendency not to brake hard enough, soon enough, in an emergency²

◆ MORE INFO: TECH GUIDE | P. 20

ABS

The **Antilock Braking System** detects the onset of wheel lockup under heavy braking and pumps the brakes up to 30 times per second (the front wheels individually, the rear wheels together).

★ helps prevent wheel lockup

★ allows driver to retain steering control and perform evasive maneuvers



S 65 AMG compound front brake

AMG ENHANCEMENTS

The S 55 AMG and S 65 AMG feature **specific brake components**, all to match their high-performance character:

- **S 55 AMG:**
 - Large (14.2" diameter) **perforated** and internally ventilated front brake discs with **8-piston** AMG calipers
 - Large (13.0" diameter) **perforated and internally ventilated** rear brake discs with **4-piston** calipers.
- **S 65 AMG:**
 - Giant (15.4" diameter) **perforated** and internally ventilated two-piece **compound** front brake discs with **8-piston** AMG calipers
 - Larger (13.7" diameter) **perforated** and internally ventilated two-piece **compound** rear brake discs with **4-piston** calipers

◆ MORE INFO: TECH GUIDE | P. 18

¹ Please obey all speed laws.

² Braking effectiveness also depends on proper brake system maintenance, and tire and road conditions.

BODY CONSTRUCTION

Monocoque structure

The S-Class is built with a **monocoque** structure, incorporating both the body and frame into the same sheet metal.

◆ MORE INFO: TECH GUIDE | P. 26

Many of the body panels and components are made of **aluminum**.

- ★ *provides high strength with light weight*

INNOVATIVE STEEL

High-strength/low-alloy (HSLA) steel (shown in red below) is used extensively.

- HSLA is up to **three times stronger** than lower-carbon steel.
- HSLA is used for approximately **38% of the body** structure (by weight).
- ★ *helps create exceptional overall rigidity*
- ★ *provides added strength in critical areas*
- ★ *enhances safety and durability*

In addition to HSLA steel, the thickness and stamping of various body panels helps promote body strength.

- **Variable-thickness body components**
 - Thicker panels for body areas subject to high stress levels in an impact



- **Optimized forming**
 - Panel shapes and cross-sectional structures optimized for strength and management of impact forces

SUBFRAME-MOUNTED COMPONENTS

A separate aluminum subframe helps hold the engine and front suspension components.

- ★ *saves weight*
- ★ *helps insulate noise and vibration*

RIGID BODY ELEMENTS

The body structure consists of numerous interconnected elements:

- **Body pillars** from the floor to roof. Each of the six pillars features **triple-layer construction**, including a layer of HSLA.
 - ★ *affords maximum strength*
 - ★ *supports doors more effectively*
- **Body crossmembers** in the roof, bulkhead and under the cabin floor
 - ★ *enhance rigidity and lateral strength*
- The **windshield** is bonded to the body by a quick-drying adhesive.
 - ★ *allows the windshield to become part of the body structure, further increasing overall body rigidity*

Crashworthiness

ADVANCED CRUMPLE ZONES

- Help dissipate the forces of severe front and rear impacts, and include:
 - **Staggered underhood components** designed to deform systematically
 - Full-width front and rear crossmembers to help manage offset collisions better

◆ MORE INFO: TECH GUIDE | P. 26



BODY STRUCTURE ENHANCEMENTS

- **HSLA-reinforced driveshaft tunnel**
 - Connected to the side members by crossmembers under the front seats
 - ★ *helps to deter driveshaft intrusion*
- **Bolt-on modules**
 - Transverse aluminum and steel crossmember, held in place by **aluminum crash boxes** bolted to the frame rails
 - ★ *channel some impact energy to side not involved in a serious offset impact*
 - ★ *bolt-on, replaceable design helps reduce repair costs for minor impacts*

EXTENDED SIDE RAILS

The forward parts of the side rails **extend** forward beyond the ellipsoidal bulkhead to the rear part of the front wheel arches.

- ★ *designed to absorb impact energy from a wheel driven rearward in a frontal impact*



SIDE-IMPACT PROTECTION

- **HSLA-reinforced side sills, floor and center driveshaft tunnel**
 - Forms a cross-car bridge of high-strength steel
 - ★ *designed to help preserve occupant space in a side impact*
- **HSLA-reinforced door frames and HSLA crossbeams** in every door
 - Forms a large, interconnected area of reinforced side-impact protection
 - ★ *helps to resist intrusion in a side-impact*
- **Reinforced door hardware**
 - Strengthened door hinges and wedge-shaped latches
 - ★ *designed to enhance structural rigidity while resisting intrusion in the event of a side impact*

FUEL TANK

The **fuel tank** is positioned above the rear axle.

- ★ *location is outside of both the rear crumple zone and the passenger cabin*

RESTRAINT SYSTEMS

Protection beyond air bags

A comprehensive array of thoroughly tested, state-of-the-art passive safety features offered in S-Class are designed to work together to help reduce injury when an accident is unavoidable.

10-WAY PROTECTION FROM 8 AIR BAGS

The S-Class offers 10 ways in which it offers air bag protection to its occupants¹:

- Adaptive **dual-stage front air bags** for both driver and front passenger
- Four door-mounted **side-impact air bags**
- Full-length **Head Protection Curtains**, to help protect all four outboard front and rear occupants from head injury and broken glass during certain side impacts

SEAT BELTS

Every S-Class occupant is provided with a **3-point seat belt**.

- All outboard shoulder belts feature **Emergency Tensioning Devices (ETDs)** and **belt force limiters**.
- Front shoulder belts **automatically height-adjust** as the seats are adjusted fore-aft.
- Shoulder belts are **automatically height-adjusting** for the outboard rear seats.

INTEGRATED ROLLOVER SENSOR

Every S-Class features a rollover sensor that automatically deploys the Head Protection Curtains and ETDs when a rollover is detected as being imminent.



Additional occupant protection

OTHER SUPPLEMENTAL RESTRAINTS

- Driver's **knee bolster**
 - A padded section in the dashboard with a deformable aluminum backing
 - ★ *helps to keep driver properly positioned in seat, and helps protect driver's knees, in some frontal collisions*
- **Wedge-shaped** seat squabs beneath the seat cushions
 - ★ *help to prevent seat occupants from sliding out from under their seat belts*

IMPACT-CONSIDERATE SURFACES

- The **dashboard shell** is made of aluminum with a padded covering.
- The dash, switches and control knobs feature **smooth, rounded edges**.
- **Wood trim** is laminated with a layer of aluminum in critical areas to help prevent splintering if struck.
- **Thickly padded floor** and padded door panels help absorb some impact energy.

HEAD RESTRAINTS

All S-Class seating positions include height-adjustable head restraints.

- All head restraints also **adjust fore-aft** for optimal support and comfort.
 - “Clamshell” design moves the lower part of the head restraint nearer the occupant's neck, for more precisely placed protection.
- On models with power rear seats, the **rear head restraints rise automatically** when the occupant's seat belt is fastened.
 - ★ *help reduce whiplash injuries*
 - ★ *adjustability extends protection and comfort to occupants of varying sizes*

◆ **MORE INFO ON AIR BAGS AND RESTRAINT SYSTEMS: TECH GUIDE | P. 28–32**

PRE-SAFE

PRE-SAFE[®] is an **industry-first** safety system, introduced in 2002.

- **Standard** on all S-Class models.
- PRE-SAFE can **prepare** certain interior elements for the **possibility** of a frontal collision or rollover **before it occurs**.
- PRE-SAFE uses a network of sensors—including those for ESP and Brake Assist—to monitor **driving dynamics**.
- PRE-SAFE can:
 - **Detect indicators** that suggest a frontal collision or rollover is **possible**
 - **Take advantage** of the time before a possible collision occurs
 - **Help position occupants** in such a way that the seat belts and air bags can **offer increased protection**
 - Close the **sunroof** if an impending rollover is detected

◆ **MORE INFO: TECH GUIDE | P. 31**

¹ **WARNING:** THE FORCES OF A DEPLOYING AIR BAG CAN CAUSE SERIOUS OR FATAL INJURY TO A CHILD UNDER AGE 13. **A CHILD UNDER 13 MUST NOT BE A PASSENGER IN THIS VEHICLE** UNLESS THE CHILD IS BELTED INTO AN APPROPRIATE, PROPERLY INSTALLED **BABYSMART-COMPATIBLE** CHILD SEAT AND THE “PASSENGER AIR BAG OFF” INDICATOR REMAINS ILLUMINATED. SEE

OPERATOR'S MANUAL FOR ADDITIONAL WARNINGS AND INFORMATION ON AIR BAGS, SEAT BELTS AND CHILD SEATS. Photograph of air bags is for illustration purposes only. Front air bags, once inflated, begin to deflate immediately to provide a cushioning effect. The side-impact air bags and Head Protection Curtains remain inflated after deployment.

SPECIFICATIONS

ENGINE	S 350 SEDAN	S 430 LWB SEDAN	S 500 LWB SEDAN	S 55 AMG LWB SEDAN	S 600 LWB SEDAN
Engine size and type Construction	SOHC 18-valve 90° V-6 High-pressure die-cast alloy cylinder block. Alloy heads	SOHC 24-valve 90° V-8 High-pressure die-cast alloy cylinder block. Alloy heads	SOHC 24-valve 90° V-8 High-pressure die-cast alloy cylinder block. Alloy heads	AMG-built supercharged SOHC 24-valve 90° V-8 High-pressure die-cast alloy cylinder block. Alloy heads. Lightweight camshafts. Reinforced block, crankshaft, oil pan structure, pistons, connecting rods and valvetrain	Twin-turbocharged SOHC 36-valve 60° V-12 Two-piece high-pressure die-cast alloy cylinder block. Alloy heads and pistons. Die-cast magnesium cylinder head covers
Displacement	3,724 cc	4,266 cc	4,966 cc	5,439 cc	5,513 cc
Net power	241 hp @ 5,700 rpm	275 hp @ 5,750 rpm	302 hp @ 5,600 rpm	493 hp @ 6,100 rpm	493 hp @ 5,000 rpm
Net torque	258 lb-ft @ 3,000–4,500 rpm	295 lb-ft @ 3,000–4,400 rpm	339 lb-ft @ 2,700–4,250 rpm	516 lb-ft @ 2,750–4,000 rpm	590 lb-ft @ 1,800–3,500 rpm
Compression ratio	10.0:1	10.0:1	10.0:1	9.0:1	9.0:1
Induction	Magnesium 2-stage resonance intake manifold increases intake runner length at lower rpm for improved response			Helical high-pressure supercharger with liquid-to-air intercooler	Twin turbochargers (one per cylinder bank, integrated in exhaust manifolds) with liquid-to-air intercoolers
Fuel and ignition system	ME 2.8 engine management Integrated sequential multipoint fuel injection and phased twin-spark ignition includes individual cylinder control of fuel spray, spark timing and phase, and antiknock. Electronic throttle. Two high-energy ignition coils and two spark plugs per cylinder, with 100,000-mile spark plug intervals (60,000 miles on S 600)	ME 2.8 engine management	ME 2.8 engine management	ME 2.8 engine management	ME 2.7.1 engine management
Fuel requirement	Premium unleaded gasoline , 91 pump octane. Fuel tank (capacity—reserve): 23.2 gal/88.0 liters—2.9 gal/11.0 liters				

DRIVETRAIN

Transmission type	5-speed automatic	7-speed automatic (S 430 and S 500 with rear-wheel drive) or 5-speed automatic (S 430 and S 500 with optional 4MATIC™)	AMG-enhanced 5-speed automatic	5-speed automatic
Transmission features	Electronically controlled shifting. Driver-adaptive programming adjusts shift points to the driver's current driving style. Touch Shift allows driver to manually downshift and allow upshifts by nudging the shift lever left or right from the Drive position. Shift into Optimum Gear programming allows one-touch selection of the best gear for maximum acceleration or engine braking by holding the shift lever to the left of Drive for one second. Driver-selectable Comfort mode starts vehicle moving in 2nd gear or a second Reverse gear, and upshifts at lower rpm, to help improve control on slippery surfaces			
AMG SpeedShift and fingertip manual mode	Not available	Not available	Not available	Standard
	Not available			
	AMG SpeedShift™ programming provides up to 35% faster gear changes, automatically downshifts during braking, prevents unwanted upshifting while cornering, and features torque converter lockup in all forward gears. Fingertip manual mode allows direct-access shifting through forward gears via buttons on back of upper steering-wheel spokes (left button downshifts, right button upshifts) or via Touch Shift feature of shift lever, and will automatically intervene only to select 1st gear when the vehicle stops. In Sport and Comfort modes, the steering-wheel buttons operate the Touch Shift feature			
Drive configuration	Rear-wheel drive	Rear-wheel drive or optional 4MATIC all-wheel drive	Rear-wheel drive	Rear-wheel drive
Rear axle ratio	3.07:1	2.65:1 (4MATIC: 3.07:1)	2.65:1 (4MATIC: 3.07:1)	2.65:1

TRACTION / STABILITY

Electronic Stability Program	ESP compares the driver's intended course, via steering and braking inputs, to the vehicle's response, via lateral acceleration, rotation (yaw) and individual wheel speeds. ESP then brakes individual front or rear wheels and/or reduces excess engine power as needed to help correct understeer (plowing) or oversteer (fishtailing). ESP also integrates all-speed traction control, which senses drive-wheel slip under acceleration and individually brakes the slipping wheel or wheels, and/or reduces excess engine power, until control is regained ¹				
4MATIC all-wheel drive with 4-wheel Electronic Traction System (4-ETS)	Not available	No-charge option (see p. 33)	No-charge option (see p. 33)	Not available	Not available
	4MATIC features a permanent 40/60 front/rear torque split maintained via a planetary center differential. 4-ETS monitors the speed of all four wheels to detect wheel slip, then applies individual brakes as needed to provide the effect of locking the front, rear and/or center differentials, and/or reduces excess engine power. 4-ETS continually balances the torque split to ensure that power is permitted to flow to the wheel(s) with traction. 4MATIC also incorporates the functions of ESP ¹				

PERFORMANCE

Acceleration, 0–60 mph ²	7.6 seconds	6.9 seconds	6.1 seconds	4.6 seconds	4.6 seconds
Fuel economy, EPA estimate ³ highway estimate ⁴	17 mpg 25 mpg	17 mpg (4MATIC: 17 mpg) 26 mpg (4MATIC: 22 mpg)	16 mpg (4MATIC: 16 mpg) 24 mpg (4MATIC: 22 mpg)	15 mpg 22 mpg	12 mpg 19 mpg

LWB Sedan = Long-wheelbase Sedan.

¹ No system, regardless of how advanced, can overcome physics or correct careless driving. Please always wear your seat belt. Performance is limited by available traction, which snow, ice and other conditions can affect. Always drive carefully, consistent with conditions. Best performance in snow is obtained with winter tires.

² Stated rates of acceleration are based upon manufacturer's track results and may vary depending upon model, environmental and road surface conditions, driving style, elevation and vehicle load.

³ 2006 EPA estimated fuel economy. Compare the estimated mpg to the estimated mpg of other vehicles. You may get different mileage depending on how fast you drive, weather conditions and trip length.

⁴ Your actual highway mileage will probably be less than the highway estimate.

⁵ Please obey all speed laws.

⁶ AMG 18" and 19" wheels and accompanying high-speed-rated tires provide substantially increased treadwear and reduced ride comfort compared to H-rated tires. Serious wheel and tire damage may occur if the vehicle is operated on rough or damaged road surfaces or upon

encountering road debris or obstacles.

⁷ Z-rated tires are optimized for performance driving and may provide reduced ride comfort, increased tire noise, substantially increased treadwear and greater susceptibility to damage compared with H-rated tires.

⁸ Braking effectiveness also depends on proper brake system maintenance, and tire and road conditions.

SPECIFICATIONS continued

CHASSIS	S 350 SEDAN	S 430 LWB SEDAN and S 500 LWB SEDAN	S 55 AMG LWB SEDAN	S 600 LWB SEDAN
Front suspension	Independent 4-link (double wishbone on S 430 and S 500 with optional 4MATIC), with antidive geometry		Independent 4-link	Independent 4-link
Rear suspension	Independent 5-arm multilink with antisquat geometry		Independent 5-arm multilink	Independent 5-arm multilink
Airmatic air suspension with Adaptive Damping System (ADS II)	Standard Electronically controlled pneumatic spring-struts integrate variable-rate shock absorbers and coil springs. Front and rear stabilizer bars Adaptive Damping System (ADS II) continually optimizes ride and handling by automatically selecting one of four damping profiles for each spring-strut every time a wheel changes its direction of up-down travel Dual driver-selectable sport modes engage firmer damping profiles either full-time or at lower thresholds of body movement Automatic 4-wheel level control includes driver-selectable ride height. Automatic speed-sensitive lowering can reduce ride height by 0.4 inch at higher speeds ⁵	Standard	Not available	Not available
Active Body Control (ABC)	Not available ABC, an active suspension system , utilizes a coil spring and an electronically controlled hydraulic cylinder in series, plus a separate gas-pressurized shock absorber at each wheel. Using a total system pressure of up to 2,900 psi, ABC continually adjusts each wheel's suspension to counteract vibration, pitch, dive, squat and roll. ABC also provides automatic 4-wheel level control , driver-selectable ride height and automatic lowering at higher speeds ⁵ Driver-selectable sport mode virtually eliminates body roll for even flatter cornering and sharper handling response	Not available	Standard , AMG-enhanced	Standard
Steering Turning circle, curb-to-curb	Rack-and-pinion with vehicle-speed-sensitive power assist and integrated hydraulic damper. Steering-wheel turns: 2.8 lock-to-lock 38.6 ft/11.7 m	39.7 ft/12.1 m	39.7 ft/12.1 m	39.7 ft/12.1 m

WHEELS / TIRES				
Wheels, aluminum-alloy	5-twin-spoke , 7.5Jx17	AMG Sport Package: Polished AMG double-spoke , 8.5Jx18 front—9.0Jx18 rear ⁶ 4MATIC: 7-spoke , 7.5Jx17 AMG Sport Package + 4MATIC: Polished AMG thin-spoke monoblock , 8.5Jx18 front and rear ⁶	Two-piece AMG double-spoke in Sterling Silver finish, 8.5Jx19 front—9.5Jx19 rear ⁶	High-polish forged 6-hole , 8.0Jx18 Optional 5-spoke , 8.0Jx18 AMG Sport Package: Polished AMG thin-spoke monoblock , 8.5Jx18 front—9.0Jx18 rear ⁶
Tires, steel-belted radial	225/55 HR17, all-season performance	AMG Sport Package: 245/45 ZR18 XL front—265/40 ZR18 XL rear, high-performance ⁶ 4MATIC: 225/55 HR17, all-season performance AMG Sport Package + 4MATIC: 245/45 ZR18 XL, high-performance ⁶	245/40 ZR19 XL front—275/35 ZR19 XL rear, high-performance ⁶	245/45 ZR18 XL, high-performance ⁷ AMG Sport Package: 245/45 ZR18 XL front—265/40 ZR18 XL rear, high-performance ⁶

BRAKES	S 350 SEDAN, S 430 LWB SEDAN and S 500 LWB SEDAN	S 55 AMG LWB SEDAN	S 600 LWB SEDAN
Brake system, dual-circuit	Power-assisted 4-wheel disc	AMG-enhanced power-assisted 4-wheel disc	Power-assisted 4-wheel disc
Brake discs—calipers, front	13.0" perforated/ventilated—4-piston fixed (dual-piston floating on S 430 and S 500 with 4MATIC)	14.2" perforated/ventilated—AMG 8-piston fixed	14.2" perforated/ventilated—4-piston fixed
Brake discs—calipers, rear	11.8" ventilated—dual-piston fixed	13.0" perforated/ventilated—AMG 4-piston fixed	13.0" perforated/ventilated—dual-piston fixed
Antilock Braking System (ABS)	ABS senses impending wheel lockup under heavy braking and pumps the front brakes individually or the rear brakes together (to help maintain stability) as needed up to 30 times per second, to prevent lockup and maintain steering ability		
Brake Assist	Brake Assist senses emergency braking via the speed at which the driver presses the brake pedal and immediately applies maximum available power boost, potentially reducing the overall stopping distance by eliminating the delay caused by a common human tendency not to brake hard enough, soon enough. Letting up on the brake pedal releases Brake Assist ⁸		
Electronic Brake Force Distribution	Electronic Brake Force Distribution helps ensure proper brake proportioning for differing vehicle load and maneuvering conditions, and promotes more even brake-pad wear by allowing for a greater rear-wheel contribution to straight-line braking compared to braking while cornering		

DIMENSIONS	S 350	S 430	S 500	S 55 AMG	S 600
Wheelbase	116.7 in/2,965 mm	121.5 in/3,085 mm	121.5 in/3,085 mm	121.5 in/3,085 mm	121.5 in/3,085 mm
Overall length	198.5 in/5,043 mm	203.3 in/5,163 mm	203.3 in/5,163 mm	203.3 in/5,163 mm	203.3 in/5,163 mm
Overall height	56.9 in/1,444 mm	56.9 in/1,444 mm	56.9 in/1,444 mm	57.1 in/1,450 mm	57.0 in/1,447 mm
Overall width	73.0 in/1,855 mm	73.0 in/1,855 mm	73.0 in/1,855 mm	73.0 in/1,855 mm	73.0 in/1,855 mm
Track, front	62.0 in/1,574 mm	62.0 in/1,574 mm	62.0 in/1,574 mm	62.0 in/1,574 mm	62.0 in/1,574 mm
Track, rear	62.0 in/1,574 mm	62.0 in/1,574 mm	62.0 in/1,574 mm	62.0 in/1,574 mm	62.0 in/1,574 mm
Drag coefficient	0.27	0.27	0.27	0.27	0.27
Curb weight	3,980 lb/1,805 kg	AMG Sport Package: 4,160 lb/1,887 kg 4MATIC: 4,390 lb/1,991 kg	Sport Package: 4,170 lb/1,891 kg 4MATIC: 4,390 lb/1,991 kg	4,300 lb/1,950 kg	4,610 lb/2,090 kg

DIMENSIONS	S 350 SEDAN	ALL LWB SEDANS
Headroom, front	39.4 in/1,000 mm	39.4 in/1,000 mm
Legroom, front	41.3 in/1,050 mm	41.3 in/1,050 mm
Shoulder room, front	59.2 in/1,503 mm	59.2 in/1,503 mm
Headroom, rear	38.4 in/976 mm	38.8 in/986 mm
Legroom, rear	35.6 in/904 mm	40.3 in/1,023 mm
Shoulder room, rear	58.3 in/1,480 mm	58.3 in/1,480 mm
Cabin capacity	99.6 cu ft/2,820 liters	105.0 cu ft/2,973 liters
Cargo capacity	15.4 cu ft/436 liters	15.4 cu ft/436 liters

< See preceding page for footnotes.

STANDARD EQUIPMENT

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S 600 Sedan

EXTERIOR APPEARANCE

–	□ ¹	□ ¹	–	□ ¹	AMG-design front air dam with mesh air intakes, side skirts and rear apron
–	–	–	–	■	Dual chrome exhaust tips
–	–	–	–	■	Four polished stainless-steel exhaust tips

EXTERIOR FEATURES

■	■	■	■	■	Power tilt/sliding tinted glass sunroof with one-touch express-open/close and memory
■	■	■	■	■	Dual power mirrors, linked to driver's seat memory and automatically heated. Auto-dimming left-side mirror. Parking-assist right-side mirror can be programmed to tilt down upon shifting to Reverse
■	■	■	■	■	Power fold-in for side mirrors. Driver-programmable automatic folding feature retracts side mirrors upon remote-locking of car, and folds mirrors out when car is unlocked and a front door is opened
■	■	■	■	■	Electrically heated rear window with auto-shutoff based on time, driving speed and outside temperature
■	■	■	■	■	Dual aero-blade windshield wipers. Heated washer system, including nozzles, lines and reservoir. Heated wiper parking position
■	■	■	■	■	Infrared rain sensor automatically adjusts wiper speed and intermittent wiper frequency from infinite delay to constant wiping, based on amount of rainfall measured on windshield
■	■	■	■	■	Infrared-reflective glass helps reduce radiant heat penetration
■	■	■	■	■	Laminated side glass helps reduce noise and UV penetration

EXTERIOR LIGHTING

■	■	–	–	–	Variable-focus halogen headlamps with projector low beams and clear high-impact polycarbonate lenses
□ ¹	□ ¹	■	■	■	Bi-Xenon High Intensity Discharge low-beam and high-beam headlamps with automatic level control, halogen auxiliary high beams, clear high-impact polycarbonate lenses, and heated headlamp washers
■	■	■	■	■	Halogen front foglamps. Single red rear foglamp, integrated in left taillamp
■	■	■	■	■	Driver-selectable light-sensing headlamps can be set via the Auto position of the headlamp switch to automatically illuminate in darkness, and when entering dark tunnels or parking garages
■	■	■	■	■	Driver-programmable Daytime Running Lamps, with auto-on override in darkness
■	■	■	■	■	Automatic lamp substitution uses a nearby lamp if a critical bulb fails
■	■	■	■	■	Touch Turn Signals flash three times with one touch of turn-signal lever, for lane-changing. Auxiliary LED turn signal indicators are integrated with side mirror housings

¹ Optional as part of an Option Package, or may require additional options. See optional equipment listing on page 33.

² When so equipped.

³ First year's Tele Aid Security & Care service provided at no additional cost with subscription. Subscription and acquaintance call required for service to be active. System operates only where cellular and GPS coverage are available, and requires adequate power supply. Owner must authorize stolen vehicle tracking with a PIN code and file a police report.

⁴ While the SIRIUS network of satellite and terrestrial antennas provides nearly seamless service throughout the contiguous U.S., SIRIUS service may be unavailable or interrupted for a variety of reasons, including environmental or topographic conditions; in certain locations such as tunnels, parking garages, or within or next to large buildings; or near other technologies that can interfere with the SIRIUS signal. Programming subject to change. Not available in Alaska, Hawaii or Puerto Rico.

⁵ DVD-ROM maps do not cover all areas nor all routes within an area. One U.S./Canada DVD-ROM is included with vehicle.

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■ STANDARD
□ OPTIONAL
– NOT AVAILABLE

LOCKING / SECURITY

■	■	■	■	■	SmartKey uses an electronic code to unlock the gearshift and ignition. Removing SmartKey from ignition disables engine computer to help prevent unauthorized starting
■	■	■	■	■	SmartKey remote control integrates: <ul style="list-style-type: none"> – Door lock/unlock buttons – Trunk opener – Removable valet key – Panic alarm – Driver may selectively unlock only the driver's door and fuel filler, or all doors plus the trunk/tailgate and fuel filler
■	■	■	■	■	SmartKey remote locking uses redundant infrared and radio-frequency signals for improved range, and rolling-code signal for protection from transmitter cloning
■	■	■	■	■	SmartKey offers infrared-remote opening/closing of windows and sunroof, and can turn on Active Ventilated front seats; ² from outside the car
■	■	■	■	■	Driver-programmable user-recognition feature links each SmartKey to driver's preferences (up to three individual users per car) for: <ul style="list-style-type: none"> – Driver's seat memory settings (all 3 presets, including steering column and outside mirrors) – Various climate control settings
□	□	□	□	□	Keyless Go vehicle entry and starting system (see page 25)
■	■	■	■	■	Driver-programmable driveaway locking can automatically lock the doors when the car reaches 9 mph
■	■	■	■	■	Night security illumination uses the car's exterior lights to help illuminate a path after parking. Driver-programmable intervals allow lights to stay on for 60, 45, 30 or 15 seconds, or not at all
■	■	■	■	■	Locator lighting uses the car's lights to help light a return path when the car is remote-unlocked in darkness. Unlocking car activates illuminated entry system, which includes interior lighting, plus entrance lamps in all four doors and underneath outside mirrors
■	■	■	■	■	Automatic antitheft alarm system with towaway protection and remote panic feature
■	■	■	■	■	Power-assisted door and trunk closing. Automatically extending and retracting trunk handle
■	■	■	■	■	Emergency trunk release, located inside trunk and illuminated for 60 minutes after trunk is closed
□	□	□	□	□	Electronic trunk closer fully opens trunk lid at the touch of a button on driver's door, trunk lid or SmartKey, and closes trunk lid via button on driver's door or the underside of open trunk lid
■	■	■	■	■	Integrated 3-button garage door control, compatible with HomeLink [®] and some other systems
■	■	■	■	■	Tele Aid GPS-based Stolen Vehicle Recovery allows law enforcement agencies to track and recover stolen vehicle ³
■	■	■	■	■	Tele Aid Remote Door Unlock allows owner to have doors automatically unlocked in the event the SmartKey becomes locked inside vehicle ³
■	■	■	■	■	Tele Aid Automatic Alarm Notification alerts Mercedes-Benz to contact vehicle owner if antitheft alarm sounds ³

STANDARD EQUIPMENT continued

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S 600 Sedan

INTERIOR FEATURES

■ ■ ■ ■	Multifunction steering wheel provides convenient, additional controls for basic functions of audio system and phone; ² plus operation of multifunction display (see Instrumentation, page 32)
— — — ■	Fingertip shift buttons behind steering-wheel spokes
■ ■ ■ ■	Power windows, all with one-touch express-up/down
□ ¹ ■ ■ ■	Power rear-window sunshade, with one-touch express-up/down
□ □ □ □	Manual roller-type sunshades for windows in rear doors
■ ■ ■ ■	Auto-dimming rearview mirror
■ ■ ■ ■	4-way (tilt/telescoping) power steering column, position linked to driver's seat memory
■ ■ ■ ■	Driver-programmable easy-exit feature can move driver's seat rearward and/or raise steering column when SmartKey is removed from ignition, and restore positions when key is reinserted
■ ■ ■ ■	Electronic cruise control, with digital readout of set speed in multifunction display upon engagement
■ ■ ■ ■	Automatic ambient lighting provides gentle illumination while driving in darkness to the console, door handles and all four footwells. Courtesy lamps with programmable fade-out time. Entrance lamps in all four doors
■ ■ ■ ■	Four illuminated vanity mirrors (in sun visors and in rear-cabin ceiling). Dual front reading lamps. Dual rear reading lamps
■ ■ ■ ■	Front center armrest with two-level enclosed storage and dual cupholders. Lower compartment is illuminated and includes a climate-control air outlet. Illuminated glovebox
■ ■ ■ ■	Folding rear center armrest with enclosed storage and dual cupholders. Magazine pockets on front seatbacks. Pockets in all doors. Parcel net in right front footwell
■ ■ ■ ■	Illuminated, carpeted trunk with tie-down hooks

CLIMATE CONTROL

■ ■ ■ ■ —	Dual-zone CFC-free automatic climate control with individual left and right electronic controls for temperature and airflow direction, with dual automatic modes and a selectable automatic mode for the center dash vents
□ ¹ □ ¹ □ ¹ □ ¹	4-zone climate control, with all features of dual-zone system plus an additional rear-cabin control panel
■ ■ ■ ■	Adjustable high-flow/low-draft vents in dash, front doors, rear of console, and adjacent to rear doors
■ ■ ■ ■	REST mode can ventilate cabin or help keep cabin warmer using residual heat for up to 30 minutes after car is turned off. (4-zone climate control includes individual front and rear REST modes)
■ ■ ■ ■	Electrostatic dust and pollen filter
■ ■ ■ ■	Activated charcoal filter with smog-sensing automatic recirculation of filtered cabin air
■ ■ ■ ■	Sun sensor helps compensate for the effects of directional sunlight on the occupants
■ ■ ■ ■	Humidity/dewpoint sensor helps reduce window fogging during humid weather, and helps prevent overdrying of cooled air
■ ■ ■ ■	Tunnel mode offers one-touch closing (and re-opening) of all windows, the sunroof and cabin air intake via the air-recirculation button
■ ■ ■ ■	Seat-belt usage sensors allow climate control to focus first on occupied seating positions

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■ STANDARD
□ OPTIONAL
— NOT AVAILABLE

AUDIO / NAVIGATION / TELEMATICS

■ ■ ■ ■	COMAND-DVD Cockpit Management and Data system integrates: <ul style="list-style-type: none"> – DVD-based navigation (see below) – AM/FM stereo/weatherband radio, single-CD player, and a 6.5" color-LCD screen – Controls for trunk-mounted 6-disc CD changer² and optional phone – Ten mode-dependent soft keys alongside screen for easy access to commands and menus
■ ■ ■ ■	Fiber-optic network offers precise, high-speed communication among components and includes factory preparation for CD changer ² and phone; ² and SIRIUS Satellite Radio ⁴ prewiring
■ ■ ■ ■	Bose® Cabin Surround™ multichannel digital surround sound system features: <ul style="list-style-type: none"> – 12 speakers, including two surround-sound speakers on rear shelf, a dash-mounted center fill speaker and a 10" Nd® Neodymium Iron Boron high-efficiency woofer – Cabin Surround sound architecture, with independent front and rear channels for a 360° sound field and a proprietary channel assignment algorithm for a balanced, accurate surround-sound experience for playback of audio CDs and optional SIRIUS Satellite Radio⁴ at every seating position. – Bose Centerpoint™ signal processing, which processes stereo and matrix surround CDs to five independent channels, delivering a multichannel surround-sound experience, even from conventional stereo CDs. – Bose AudioPilot™ digital processing, which monitors sound within the cabin and helps compensate for unwanted ambient noise with no perceived change in audio volume
□ □ □ ■	Integrated trunk-mounted 6-disc CD changer
■ ■ ■ ■	COMAND-DVD in-dash navigation system uses Global Positioning System (GPS) satellites to determine the current location of your car, with map database for the contiguous U.S., Canada and Oahu, Hawaii, on a single DVD. ⁵ DVD-ROM drive concealed in trunk
■ ■ ■ ■	Tele Aid system uses GPS satellites plus a cellular link to provide 24-hour live assistance for: emergency aid (SOS button), information (i-button) or Roadside Assistance (wrench button) <ul style="list-style-type: none"> – Basic Tele Aid Security & Care service includes Automatic Collision Notification, Stolen Vehicle Recovery, Remote Door Unlock service and Dealer Connect³

SEATING

■ ■ ■ ■	14-way power front seats, each with pneumatically adjustable lumbar support and 3-position memory. Driver's seat memory includes steering column and outside mirror positions, and is linked to each SmartKey's user-recognition feature
— — — ■	AMG-design sport front seats
□ □ ■ ■	Heated front seats
□ ¹ □ ¹ ■ ■	Active Ventilated front seats with internal fans, plus heating feature
□ ¹ □ ¹ □ ¹ —	Dynamic multicontour front seatbacks with pneumatically adjustable side and lumbar supports, and massage feature which slowly pulsates the central lumbar support to help reduce muscle fatigue
— — — ■	Drive-Dynamic front seats, with pneumatic side bolsters that respond to cornering forces by inflating and deflating to optimize lateral support, as well as all features of dynamic multicontour seatbacks
□ ¹ □ ¹ □ ¹ □ ¹	Heated rear seats
□ ¹ □ ¹ □ ¹ □ ¹	Power rear seats with pneumatically adjustable lumbar supports for outboard positions

STANDARD EQUIPMENT continued

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UPHOLSTERY / TRIM

■	■	■	■	■	Premium leather upholstery hand-fitted to each seat, plus head restraints, seatback magazine pockets, center armrests and door trim inserts
–	□	3	■	■	Hand-fitted glove-soft Nappa leather seating surfaces. Premium leather on remainder of seats and door trim inserts
–	–	–	■	■	Hand-fitted AMG-design glove-soft Nappa leather seating surfaces with perforated inserts and metal AMG badges. Premium leather on remainder of seats and door trim inserts
–	□	4	□	4	Exclusive leather interior treatment with glove-soft Nappa leather hand-fitted to seats, head restraints, dash, console, doors, armrests and rear shelf. Alcantara covering pillars, sun visors and ceiling
■	■	■	■	■	Leather-trimmed steering wheel
–	–	–	■	■	AMG-design leather-trimmed sport steering wheel with raised thumbgrips and fingertip shift controls
■	■	■	■	■	Leather-trimmed shift knob
□	3	□	3	□	Leather and wood trimmed steering wheel and shift knob ⁴
■	■	■	■	■	Hand-polished Calyptus wood trim on dash, console, doors and shift gate, with polished chrome trim
□	□	■	■	■	Hand-polished Burl Walnut wood trim on dash, console, doors and shift gate, with polished chrome trim
–	–	–	■	■	Wood-trimmed overhead console, overhead assist handles, rear vanity mirror covers and ashtrays, and cupholder cover in rear center armrest
■	■	■	■	■	Stainless-steel door sill trim (with AMG insignia on S 55 AMG). Velour floor carpeting and floor mats (exclusive AMG floor mats on S 55 AMG)

INSTRUMENTATION

■	■	■	■	■	Electroluminescent analog speedometer, tachometer and gauges for fuel level and coolant temperature
■	■	■	■	■	Digital clock, outside temperature indicator, and display of Touch Shift gear selection and shift mode
–	–	–	■	■	AMG-design instrument cluster
■	■	■	■	■	Automatic illumination of displays and controls based on ambient light
■	■	■	■	■	Multifunction display in speedometer face can be scrolled via steering-wheel controls to operate and display various menus and vehicle features: Odometer and resettable trip meter. Maintenance System (see below), tire pressure (see below), engine oil-level check, and digital speedometer. Radio station, CD player/CD changer. ² Mobile phone book. ² Navigation system route guidance. Distronic adaptive cruise control settings. ² Trip computer (elapsed time, fuel consumption, distance to empty). Vehicle reminder and malfunction messages. Driver-programmable settings for instruments, clock, lighting, vehicle and convenience features
■	■	■	■	■	Mercedes-Benz Maintenance System displays distance remaining to next basic maintenance service, indicates type of service due, and provides automatic reminder feature when service interval draws near
■	■	■	■	■	Onboard tire-pressure monitoring system allows driver to check the inflation pressure of all four mounted tires via the multifunction display
■	■	■	■	■	Warning lights and/or messages for open door, exterior lamp failure, and low fuel, engine oil, coolant and washer fluid levels
□	□	□	□	■	Parktronic parking assistance system uses ultrasonic sensors in front and rear bumpers to help detect nearby obstacles at parking speeds, alerting driver to their proximity and direction via audio-visual indicators on dash and rear-cabin ceiling

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■ STANDARD
□ OPTIONAL
– NOT AVAILABLE

RESTRAINT SYSTEMS

■	■	■	■	■	Integrated Restraint System: – Driver and front passenger are each provided with an adaptive dual-stage front air bag, side-impact air bag, and 3-point seat belt with an Emergency Tensioning Device (ETD) and dual-stage belt force limiter ⁵ – Outboard rear passengers are each provided with a side-impact air bag and 3-point seat belt with ETD and belt force limiter – Center rear passenger is provided with a 3-point seat belt
■	■	■	■	■	Head Protection Curtains: – In a side impact exceeding a preset threshold, a multi-chamber air bag deploys along the front and rear side windows on the affected side of the car ⁵ – Integrated rollover sensor automatically deploys the ETDs and, if deemed necessary, the Head Protection Curtains in the event of a detected rollover
■	■	■	■	■	Adaptive dual-stage front air bags are deployed in response to frontal impact severity ⁵
■	■	■	■	■	PRE-SAFE [®] helps prepare occupants for a possible collision before it occurs. If, by monitoring circumstances where the capabilities of Brake Assist or ESP are exceeded, PRE-SAFE [®] senses a possible accident, it will take action to help protect you better, including: – electrically tensioning the front seat belts – adjusting the front passenger seat (and rear seats, with 4-place seating package) ² for potentially more favorable seat-belt and air-bag effectiveness – (if a possible rollover is detected) closing the sunroof If no collision occurs, PRE-SAFE reverses the front seat-belt tensioners, and occupants may re-adjust their seats and the sunroof
■	■	■	■	■	ETDs are deployed in a front or rear impact exceeding a preset threshold of severity, or certain rollovers. A front ETD will not deploy if seat belt is unfastened
■	■	■	■	■	Tele Aid Automatic Collision Notification engages SOS function if an air bag or ETD deploys ⁶
■	■	■	■	■	Universal LATCH system (Lower Anchors and Tethers for Children) at outboard rear seating positions. Selectable passenger seat-belt retractors help secure child seats ⁵
■	■	■	■	■	Front seat belts include automatic power height-adjusting shoulder belts (as seats are moved fore-aft) and lower points attached to seat frames
■	■	■	■	■	Front head restraints power-adjust for height and adjust fore-aft manually
■	■	■	■	■	Automatically height-adjusting rear shoulder belts
■	■	■	■	■	Three rear-seat head restraints, manually adjustable fore-aft. All three head restraints can also be remotely retracted by the driver for improved rearward vision when the rear seats are unoccupied. On models with power rear seats, rear head restraints rise automatically when seat belt is fastened

1 Optional as part of an Option Package, or may require additional options. See optional equipment listing on page 33.

2 When so equipped.

3 Special-order option. Vehicles with special-order items, colors or trim combinations incur a one-time surcharge and may require additional production time.

4 Optional as part of S-Class *designo* editions. See listing above right.

5 **WARNING:** THE FORCES OF A DEPLOYING AIR BAG CAN CAUSE SERIOUS OR FATAL INJURY TO A CHILD UNDER AGE 13. THE SAFEST SEATING POSITION FOR YOUR CHILD IS IN THE REAR SEAT, BELTED INTO AN APPROPRIATE, PROPERLY INSTALLED CHILD SEAT, OR CORRECTLY WEARING A SEAT BELT IF TOO LARGE FOR A CHILD SEAT. **A CHILD UNDER 13 MUST NOT USE THE FRONT SEAT** UNLESS THE CHILD IS BELTED INTO AN APPROPRIATE, PROPERLY INSTALLED **BABYSMART-COMPATIBLE** CHILD SEAT. A CHILD UNDER 13 WHO IS TOO LARGE FOR A CHILD SEAT MUST NOT USE THE FRONT SEAT. SEE OPERATOR'S MANUAL FOR ADDITIONAL WARNINGS AND INFORMATION ON AIR BAGS, SEAT BELTS AND CHILD SEATS.

See next page for more footnotes. >

OPTIONAL EQUIPMENT

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INDIVIDUAL OPTIONS

–	□	□	–	–	4MATIC™ all-wheel drive (no charge; includes 5-speed automatic transmission; also includes heated front seats on S 430)
–	–	–	–	□	Four 18" 5-spoke alloy wheels (no charge; not available with AMG Sport Package)
□	□	□	□	□	DISTRONIC adaptive cruise control
□	□	□	□	■	Keyless Go vehicle entry and starting system
□	□	□	□	■	Electronic trunk closer fully opens trunk lid at the touch of a button on driver's door or SmartKey, and closes trunk lid via button on driver's door or the underside of open trunk lid
□	□	□	□	■	Manual roller-type sunshades for windows in rear doors
□	□	■	■	■	Heated front seats (also included with 4MATIC on S 430)
–1	–1	–1	□1	■	Power rear seats with dual pneumatic lumbar supports and power head restraints (not available with 4-place seating package)
–	–	–	□	□	4-place seating package: Four dynamic multicontour power seats, each with 2-position memory (requires heated rear seats on S 55 AMG)
□	□	□	□	■	Heated rear seats (requires heated front seats or 4MATIC on S 430; requires 4-place seating package on S 55 AMG)
–1	–1	–1	□	□	Active Ventilated rear seats, with heating feature (requires power rear seats or 4-place seating package)
–	□3	■	■	■	Nappa leather upholstery
□	–1	□	–	■	Heated steering wheel (not available with <i>designo</i> editions)
□3	□3	■	■	■	Burl Walnut wood interior trim
□3	□3	□3	–	□3	Chestnut wood interior trim
□	□	□	■	■	Integrated trunk-mounted 6-disc CD changer
□	□	□	□	□	SIRIUS Satellite Radio equipment ⁷
□	□	□	□	□	Hands-Free Communication System with voice control for commonly used telephone and audio system features. (Requires accessory telephone handset and cradle, sold separately at dealership)
□	□	□	□	■	Parktronic audio-visual parking assistance system
□	□	□	□	□	Metallic paint (no charge)

6 First year's Tele Aid Security & Care service provided at no additional cost with subscription. Subscription and acquaintance call required for service to be active. System operates only where cellular and GPS coverage are available, and requires adequate power supply. Owner must authorize stolen vehicle tracking with a PIN code and file a police report.

7 While the SIRIUS network of satellite and terrestrial antennas provides nearly seamless service throughout the contiguous U.S., SIRIUS service may be unavailable or interrupted for a variety of reasons, including environmental or topographic conditions; in certain locations such as tunnels, parking garages, or within or next to large buildings; or near other technologies that can interfere with the SIRIUS signal. Programming subject to change. Not available in Alaska, Hawaii or Puerto Rico.

8 AMG 18" wheels and accompanying high-speed-rated tires provide substantially increased treadwear and reduced ride comfort compared to H-rated tires. Serious wheel and tire damage may occur if the vehicle is operated on rough or damaged road surfaces or upon encountering road debris or obstacles.

9 S 430 *designo* editions require [(a.) heated front seats or a Comfort Package], plus [either (b.) Rear Seat Package or (c.) heated and power rear seats].

S 500 *designo* editions require either [(a.) Rear Seat Package], or [(b.) heated rear seats and 4-place seating package].

S 55 AMG *designo* editions require [(a.) Rear Seat Package]; or [(b.) heated rear seats and 4-place seating package]; or [(c.) Active Ventilated rear seats and 4-place seating package]; or [(d.) Active Ventilated and power rear seats].

< See preceding page for more footnotes.

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■ STANDARD
□ OPTIONAL
– NOT AVAILABLE

OPTION PACKAGES

–	□	□	–	□	AMG Sport Package (no charge on S 430 and S 500 unless ordered in combination with 4MATIC): – AMG-design front air dam, side skirts and rear apron (standard on S 55 AMG) – Four staggered-width 18" AMG wheels with high-performance tires ⁸ (four same-size wheels and tires when combined with 4MATIC)
□	□	■	■	■	Lighting Package: – Bi-Xenon High Intensity Discharge projector low-beam and high-beam headlamps (see page 24) – Heated headlamp washers
□	□	–	–	–	Heating Package (not available with <i>designo</i> editions, or on S 430 with 4MATIC): – Heated front seats (standard on S 500, S 55 AMG and S 600; included with 4MATIC on S 430) Heated steering wheel
□	□	□	■	■	Comfort Package: – Active Ventilated front seats, with heating feature – Dynamic multicontour front seatbacks, with pneumatically adjustable side bolsters, dual lumbar supports and thigh support, plus active massage feature
□	□	□	□	–	Rear Seat Package: – Power rear seats with dual pneumatic lumbar supports and power head restraints (standard on S 600) – Active Ventilated rear seats, with heating feature – 4-zone climate control (standard on S 600) S 350 also adds: Power rear-window sunshade
□	□	□	–	■	Trim Package: – Leather and Burl Walnut (or Chestnut ³) trimmed steering wheel and shift knob (On S 350 and S 430, package requires special-order Burl Walnut or Chestnut wood interior trim)

S-CLASS *designo* EDITIONS

–	□9	□9	–	□	Silver Edition: <i>designo</i> Silver metallic paint. Exclusive interior treatment in Stone with Nappa leather upholstery and Brown Poplar wood trim. Wood trim on steering wheel, shift knob and overhead assist handles. Stone <i>designo</i> floor mats with leather trim
–	□9	□9	□9	□	Espresso Edition: <i>designo</i> Mocha Black metallic paint. Exclusive interior treatment in Charcoal with <i>designo</i> Light Brown Nappa leather upholstery and Natural Elm wood trim. Wood trim on steering wheel (except S 55 AMG), shift knob and overhead assist handles. Charcoal <i>designo</i> floor mats with leather trim
–	□9	□9	□9	□	Graphite Edition: <i>designo</i> Graphite metallic paint. Exclusive interior treatment in Charcoal with <i>designo</i> Graphite Nappa leather upholstery and Brown Poplar wood trim. Wood trim on steering wheel (except S 55 AMG), shift knob and overhead assist handles. Charcoal <i>designo</i> floor mats with leather trim

Questions or comments on the Presentation Guides for 2006?
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