

2005 E-Class
Sales Presentation Guide



Mercedes-Benz

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About this Guide

A new approach for 2005

Easier access to information

You'll notice something new in the Sales Presentation Guides for 2005, and we hope every Mercedes-Benz dealer professional finds it a change for the better.

Organization of the new Guides

We've separated the presentation of the 2005 Mercedes-Benz line into two groups:

- **Class Guides:** Information on each model line, to explain the key features that distinguish each model line from the others, and from their competition
- A core **Technical Guide:** Information on what makes every Mercedes-Benz a Mercedes-Benz. The Guides no longer repeat features that are shared by every Mercedes-Benz in every Class Guide, for easier access to information you need.

To help you find information easily, the new 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 specs and equipment charts.
 - ★ **Benefits** of each feature are now called out in *italics with a red star*.
- And throughout the Class Guides, new **blue-diamond callouts** direct you to the other sections or Guides for a consolidated discussion of features of every Mercedes:
 - ◆ **More info: Tech Guide, p. XX**



E 320 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.

From the more than 50 years of safety innovation to the latest 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 overcoming the “information overload” of all the many nuances of their design. Did you know, for example, that many systems in every Mercedes communicate with each other? For example:

- If a critical exterior lamp burns out, the E-Class automatically substitutes a suitable nearby lamp.
- The E-Class Wagon's rear-window wiper switches on automatically if the driver shifts to Reverse while the front wipers are on.
- The SmartKey is linked to a number of its individual user's preferences, including settings programmed in the multifunction display and the seat memory stations.

The truth is, we could produce Guides that are thousands of pages thick—and that no one 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. And with more excitement on the way, 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 2005?
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The 2005 E-Class

Positioning

The 2005 E-Class is a vehicle built on a longstanding reputation for beauty, safety, quality and value in a combination that only Mercedes-Benz can deliver. Available in a variety of bodystyle and powertrain combinations, the E-Class stands poised to maintain its leadership position in the core segment of the luxury car market that its predecessor series created four decades ago and have set the standard in ever since.

Indeed, leadership has never looked so good, nor driven so beautifully.



E 320 Sedan and E 320 Wagon

Model highlights

For 2005, the E-Class grows to six models on the brilliant 211-series platform. The addition of the **E 320 CDI** Sedan marks the return of turbocharged diesel power to the E-Class. Its innovative Common-rail Direct Injection system marks a significant milestone in automotive diesel engine technology, and is destined to change the perception of diesels in the United States.

The gasoline-powered **E 320** and **E 500** models continue to be offered in both sedan and wagon bodystyles, with rear-wheel or 4MATIC™ all-wheel drive. (4MATIC is standard on the E 500 Wagon.)

With 469 hp from its supercharged 5439-cc V-8, the **E 55 AMG** Sport Sedan is the quickest sedan sold in the United States¹ and offers all of the safety, styling and luxury innovations found on other E-Class Sedans.

1 Based on 0–60-mph acceleration of 2004 production 4-door sedans. 2005 competitor information not available at time of publication.

E-Class overview

Heritage

The E-Class has a history of leadership, with its previous generations leading the brand and the segment in sales, and helping to establish many Mercedes-Benz hallmarks.

1950s–1960s

Mercedes-Benz introduced safety door latches, manifold fuel injection and power steering in the Type 300. The W114 series sedans and coupes virtually invented the sensibly sized luxury car market segment, and spawned numerous imitators from European, domestic and eventually Japanese competitors in the 1970s.

1970s–1980s

The W123 series (produced through the mid-1980s) included the first factory-built Mercedes-Benz station wagon.



1994 E 320 Sedan

1984–1995

The W124 series set benchmarks for body rigidity and integrity that remain unmatched today by many cars. The series that inspired the Japanese luxury brands is still regarded by many as one of the finest mainstream automobiles ever made. Model offerings included the legendary 300 E Sedan, the 300CE Coupe and Cabriolet (first 4-seat Mercedes convertible since the early 1970s), and the addictively powerful 500 E Sport

Sedan, powered by a 315-hp V-8. The W124 series also introduced a number of safety advances to mainstream production cars, and were the first Mercedes-Benz passenger cars to offer the all-season confidence of 4MATIC™ all-wheel drive.



1997 E 420 Sedan

1996–2002

The W210 series established a more dynamic, progressive appearance for the brand – including the signature 4-lamp face – and enhanced driving pleasure from features including double wishbone front suspension and rack-and-pinion steering. Safety advances introduced to the world during W210 production included door-mounted side-impact air bags and Head Protection Curtains. W210 models included sedan and wagon models. The first AMG offering in the E-Class debuted as the 1999 E55 AMG Sport Sedan.



E 500 Sedan with Appearance Package

2003

The W211 series, first offered as E 320 and E 500 Sedan models, added curvaceous exterior styling, new luxury features and added safety innovations, including the revolutionary electrohydraulic braking of Sensotronic Brake Control.



E 500 4MATIC Wagon

2004

Wagon models returned to the E-Class, as did the availability of 4MATIC all-wheel drive. The E 500 4MATIC Wagon became the first V-8 wagon Mercedes-Benz had ever offered in the U.S. Also in 2004, the E 55 AMG Sport Sedan was launched, with an astoundingly quick 469-hp supercharged V-8, aggressive styling and performance to match.

2005

The new turbocharged diesel E 320 CDI Sedan becomes the latest in a long line of diesel-powered Mercedes-Benz models that dates back to 1936, when Mercedes-Benz produced the first diesel-powered passenger car, the 260D. Since then, several owners have driven their Mercedes-Benz diesels over 1,000,000 miles each. At the



E 320 CDI Sedan

height of diesel engine popularity in the 1980s, diesels powered approximately 80% of all Mercedes-Benz models sold in the U.S – some 50,000 units annually. Since then, Mercedes-Benz has offered diesel engines in most of its models in non-U.S. markets, although the last Mercedes-Benz diesel offered in the U.S. market was the 1999 E 300 Turbo Sedan.

With the introduction of Common-rail Direct Injection technology, the 3.2-liter inline-6 in the E 320 CDI Sedan marks not just the reintroduction of a diesel engine to the Mercedes-Benz lineup in the U.S., but new milestones in quietness, emissions, fuel efficiency and raw performance.

What's new for 2005

Models

The new **E 320 CDI Sedan** becomes the sixth model in the E-Class family, coupling the equipment and styling of the gasoline-powered E 320 Sedan with the outstanding fuel economy and prodigious torque of the new Common-rail Direct Injection turbocharged diesel inline-6 engine.

Exterior

New paint color

One new metallic color is offered:

- 368 Flint Grey



E 500 4-zone climate control

Interior

Climate control

Both the dual-zone and 4-zone systems have new, clearer **control-panel labels**.

★ *improves ease of use and satisfaction*

- The **dual-zone** system is standard on the E 320 and E 320 CDI models.
- The **4-zone** system is standard on the V-8 models, and **no longer available** as an option on the V-6 models.
- The **REST mode** will be deleted on both systems during August 2004 production.
- The **activated charcoal filter** is deleted from the 4-zone system.

Mechanical

All-season tires

All models with 16" and 17" wheels are now equipped with **H-rated all-season tires**.

★ *improves treadwear and ride quality*

Options



DVD navigation

The **single-disc DVD-based navigation** system can be installed at the **factory** or now as a **dealer-installed** accessory.

Satellite radio

SIRIUS Satellite Radio is now available as a dealer-installed accessory on all models.

◆ **More info: Tech Guide, p. 39**

Distronic

Distronic cruise control is now offered **only on the E 55 AMG**.

Solar panels

The solar-powered ventilation option is **discontinued**.

Airmatic DC semi-active suspension

Airmatic Dual Control suspension is now available on the E 320 models **only** as part of the Appearance Package.

Decontenting

Exterior

The following features have been **deleted**:

- Upper-windshield shaded band
- Infrared sensor on the outside right front door handle (used for remote window/sunroof operation)
- Valet lockout feature (90° trunk lock position that disabled remote trunk opener)
- Entrance lamps underneath side mirrors
- Heating feature for rear-window washer (wagons)
- Windshield washers are heated only at the nozzles (washer fluid reservoir and lines are no longer heated)

Interior

- Leather seating inserts (standard on the E 320 and E 320 CDI models) are now on the front seats only, with the rear seats upholstered entirely in M-B Tex.

The following features have been **deleted**:

- Center armrest compartment ventilation
- Center dash-vent temperature thumbwheel
- Climate-control REST mode, charcoal filter with smog sensor (midyear change during 2005 model year production)
- Lumbar support adjuster on front passenger seat
- Subwoofer for standard audio system (sedans)
- Soft-touch paint on front seat trim and inside door handle recesses
- Front side-impact air bag cover (on side of front seats) changes from upholstery to leather-grained plastic.

E 320 CDI Sedan highlights

The return of the diesel

The new E 320 CDI Sedan¹ marks the return of diesel power to the Mercedes-Benz lineup for the first time since 1999. Interior and exterior equipment is virtually the same as the gasoline-powered E 320 Sedan, leaving the trunk-mounted CDI badge as its only visual indicator.

The E 320 CDI is **one of the most powerful, fuel-efficient and quiet diesels** ever offered in the U.S. passenger-car market.

How diesels work

Diesel engines are powered by a **thicker, oilier fuel**. Once the air in each cylinder is compressed to less than 5% of its original volume (compared to roughly 10% in gasoline engines), the **fuel is injected and self-ignites** from the heat of the highly compressed air, eliminating the need for a spark plug.

At the core of this state-of-the-art engine is the **Common-rail Direct Injection (CDI)** system that injects fuel directly into each of the engine's six cylinders through specially designed, optimized fuel injectors. Fuel is delivered to the fully electronic injectors via a shared accumulator (i.e., a "common rail") that contains the fuel at an extremely high pressure (23,000 psi). This allows for **more precise fuel measurement and multiple injections per combustion cycle** (including pre-injections) for more complete burning.

Powerful **electric solenoids** initiate the fuel flow to each injector based on actual need, as determined by the electronic engine management system.

Benefits of the new diesel engine include:

- ★ *more complete burning of fuel, for greater efficiency*
- ★ *stronger components and additional sound insulation, for quieter operation and enhanced durability*
- ★ *excellent fuel economy for lower cost of ownership and longer driving range*
- ★ *strong, effortless acceleration due to massive peak torque at low rpm*
- ★ *virtual elimination of smoke under hard acceleration*
- ★ *less greenhouse-gas emissions than a typical gasoline engine*
- ★ *significantly reduced particulate emissions compared to previous diesels*

Acceleration with economy and range

The E 320 CDI's **performance** numbers are impressive in virtually every respect:

- **0–60 mph in 6.6 seconds²**
 - Quicker than the gasoline-powered E 320 Sedan
- **Highest fuel economy** of any luxury car
 - EPA estimate: **27 mpg³**
 - Highway estimate: 37 mpg⁴
- **Highway cruising range:** Up to 780 miles⁵



E 320 CDI Sedan

Pilot injection

The new diesel uses a **prechamber design** for each cylinder, into which a small amount of fuel is injected milliseconds before the main injection, resulting in **less severe spikes in pressure and temperature**.

- ★ *combustion is at once quieter and more efficient*
- ★ *pre-heating the combustion chamber provides more rapid combustion of the main fuel quantity but lower particulate emission (oxides of nitrogen) as well*

Variable-nozzle turbocharger

The new diesel's turbocharger uses a **variable-nozzle turbine (VNT)** in which the vanes on the intake side are continually adjusted to suit the driving situation.

- ★ *allows the turbine to spool up to operating speed more rapidly, for reduced "turbo lag," as well as higher boost pressure in all areas of the rev range*

The turbocharger itself improves "cylinder charging" (how rapidly the intake air fills the combustion chambers).

- ★ *results in the performance-enhancing boost in torque*

Other engine features

- Four valves per cylinder
- Centrally positioned fuel injector
 - ★ *provides more complete and efficient combustion of the fuel*
- Cast iron engine block with aluminum-alloy cylinder head
 - ★ *enhances strength and durability*
- Numerous strengthened engine components, including the oil pan structure and engine block, larger or reinforced pistons, connecting rods and crankshaft
 - ★ *enhances durability*
- Sound-absorbing insulation added to the valve cover and air-distribution plenum
 - ★ *helps provide more quiet operation*

¹ The E 320 CDI is not available in CA, ME, MA, NY and VT.

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 2005 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 Based on highway estimate of 37 mpg and 21.1-gallon fuel tank. Your actual highway mileage will probably be less.



E 320 CDI engine

Exterior overview

With their four-headlamp face, classic horizontal grille and sculpted hood, the 2005 E-Class Sedans and Wagons are unmistakably Mercedes-Benz. Today's E-Class blends the richness of its heritage with modern design elements such as a wedge-shaped profile, strong shoulders, a flowing roofline and a rounded tail. The result is a very well-balanced – and timeless – expression of E-Class beauty.

Design highlights

- Multi-element **clear-lens projector headlamps**, separate parking lamps and front foglamps, to enhance vision and contribute to a distinctive appearance
- A **stand-up Three-Pointed Star**, located prominently above the chrome-trimmed, horizontally oriented grille
- Stylish **16", 17" or 18" alloy wheels**
- Aerodynamic, automatically heated **side mirrors** with **integrated turn signals**
- Standard bodyside **rub strips**, to help protect against minor dents and dings
- Clean, one-piece designs of the front and rear bumpers, to help minimize the number of gaps in the body
- Advanced manufacturing processes, to minimize the size of all body gaps
- **Full-length roof rails** (Wagons), for a wide array of accessory attachments that suit a variety of active lifestyles
- A **rear-window wiper** (Wagons) that automatically activates when the driver shifts to Reverse while the front wipers are on



E 320 CDI Sedan

Model differences

Distinguishing exterior features of the **E 320** and **E 320 CDI** models:

- 16" twin-spoke alloy wheels
- Atlas Grey grille with four chrome ribs and chrome surround
- Neutral-tinted glass

The **E 500** models add:

- 17" 5-spoke alloy wheels

Distinguishing features of the **E 55 AMG**:

- AMG-design lower bodywork with unique front air dam with mesh air intakes, chiseled side sills, rear apron
- Four polished stainless-steel exhaust tips
- Staggered-width, polished AMG double-spoke 18" wheels
- Black grille with five chrome ribs
- Blue-tinted glass

Exterior styling walkaround

Front 3/4 features

Grille and headlamps

The E-Class front end initiates youthful, sporty lines with a wide, horizontal grille and rakish elliptical headlamps.

- ★ expressive quad-light design and chrome-trimmed grille create a distinct appearance that pays homage to E-Class heritage

The standard **halogen headlamps** feature low-beam bulbs and turn signals in the outer assemblies. The high beams and parking lamps are located in the inner assemblies.

- ★ provide optimally directed, even illumination to improve the driver’s vision
- ★ polycarbonate headlamp lenses are more resistant to stone chipping than glass

Bi-Xenon headlamps with active curve illumination

- Optional on all models as part of the **Lighting Package** or the **Appearance Package**
- Gas-discharge xenon bulbs are used for **both low and high beams** via a movable diffuser inside the outer headlamp.
- ★ more closely approximate the color of daylight, for better visual perception
- ★ require less energy than halogen bulbs
- ★ are designed to last 2,500 hours
- Inner lamps add an auxiliary halogen high beam, used for “flash-to-pass” feature.
- **Active curve illumination** can shift the lamps **up to 12° to either side** based on driving speed and steering angle.
- ★ provides up to 90% better illumination of curved roadways than stationary lamps

◆ More info: Tech Guide, p. 22

Halogen front foglamps

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

◆ More info: Tech Guide, p. 22

Front bumper and apron

Wraparound, color-keyed front bumpers incorporate:

- The front foglamps
- Functional **air ducts** to channel airflow into the intake, brakes or under the body.
- ★ assists engine and brake cooling
- ★ reduces aerodynamic drag and lift
- The optional **Appearance Package** includes a uniquely styled front apron with a single, full-width air intake bisected by a horizontal, color-keyed insert.
- ★ offers more stylish appearance
- The **E55 AMG Sport Sedan** and optional AMG Sport Package feature a deeper, more dramatic front apron with mesh inserts in the air intakes.
- ★ offers high-performance appearance



Side features

Well-balanced proportions

The body shape is extremely well-balanced, with an overall wedge shape and elongated, flowing roofline. Pronounced shoulders run the length of the body, and side sills are flared out around the wheel openings.

- ★ gives the E-Class an aggressive stance

Lower bodywork

Sculpted lower bodywork on all models adds visual presence while enhancing aerodynamics.

- The **E55 AMG Sport Sedan** features aggressive, deeply contoured lower bodywork.
- ★ offers high-performance appearance

1 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. **Please make sure that your customers are aware of this during the sales process.**

Wheels and tires

Aluminum **alloy wheels** are standard on every E-Class. A variety of styles adds distinctive character to each model.

- Wide **16", 17" or 18" wheels and tires** are standard (see chart below).
- The AMG Sport Package features **staggered-width 18" wheels** (the 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 **E55 AMG** features lightweight, staggered-width, polished **AMG double-spoke 18" wheels**.¹
- ★ offer the ultimate combination of style and handling
- **High-performance tires**¹ are standard on the E55 AMG and all models equipped with the AMG Sport Package.

Wheels and tires by model				
Models	Wheel style and size		Tire size and type	
E 320 and E 320 CDI	Dual-spoke (photo A)	8.0J x 16	225/55 HR 16 all-season	
E 500	5-twin-spoke (photo B)	8.0J x 17	245/45 HR 17 all-season	
E 320/E 500 Appearance Package	5-spoke (photo C)	8.0 x 17	245/45 HR 17 all-season	
E 320/E 500 AMG Sport Package	AMG thin-spoke monoblock (photo D)	F: 8.0 x 18 R: 9.0J x 18	245/40 ZR 18 265/35 ZR 18 high-performance ¹	
E 55 AMG	AMG double-spoke (photo E)	F: 8.0J x 18 R: 9.0J x 18	245/40 ZR 18 265/35 ZR 18 high-performance ¹	

Rear 3/4 features

Doors

In order to resist jamming in an impact, the doors on all models **overlap the pillars**.

★ *helps reduce door jamming in an impact, to facilitate opening afterwards*

The doors are mounted on stout hinges and feature **wedge-shaped latches**.

★ *helps prevent intrusion in a side impact*
★ *helps keep doors closed in a collision*

The **reach-through door handles** are color-keyed, with chrome trim.

★ *richer, more cohesive appearance*
★ *designed to be easier to open in everyday use or after an accident*

Heated power mirrors

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

- A standard **auto-dimming** feature darkens an “electrochromic” film behind the left-side mirror lens in response to the headlamps of vehicles behind you.
- The standard driver’s seat **memory** includes the positions of the side mirrors.
- The mirror housings integrate **LED turn signals** that are designed to be visible from the front and side.

◆ **More info:** Tech Guide, p. 24

Rear bumper

Every E-Class features a sculpted, color-keyed wraparound rear bumper.

★ *enhances protection and style*



- The **E55 AMG Sport Sedan** and optional AMG Sport Package feature more dramatically shaped rear aprons.
- ★ *adds distinctive character to each model*

Rear window

The rear window is **electrically heated** and provides automatic shutoff based on time and outside temperature.



Taillamps

The E-Class taillamps are **aerodynamically designed** with subtle ribs in the lenses.

★ *helps reduce the buildup of dirt and snow on the taillamp lenses*
★ *enhances visibility in inclement weather*

- The **center brake lamp** uses **light-emitting diodes (LEDs)** rather than ordinary bulbs.
- The **main brake lamps** on the E55 AMG and models equipped with the Appearance Package also use LEDs.
★ *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*

Exterior details

Antenna systems

- The **AM/FM radio antenna** is embedded in the rear window glass (in the rear window and both rear-quarter windows on wagons).
★ *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 window (integrated with the tailgate spoiler on wagons).
- The antenna for optional **SIRIUS Satellite Radio** installs on the trunk lid of sedan models and on the roof of the wagon.

Vision and visibility

Windshield wipers feature a dual-arm design with an **eccentric-sweep** mechanism on the passenger-side wiper arm.

★ *increases area swept by wipers*

Windshield washers have heated nozzles.

★ *heated fluid is more effective, especially in cold weather*

◆ **More info:** Tech Guide, p. 23

E 500 4MATIC Wagon shown with Appearance Package

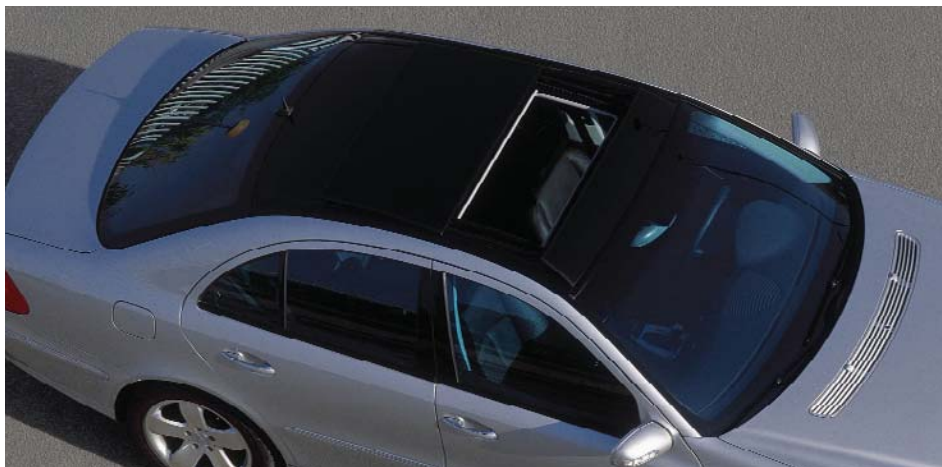
Exterior styling walkaround continued

Sunroof choices

Power sunroof

The **tinted glass sunroof** features power tilt/sliding operation.

- Standard on E55 AMG, optional on all other sedans and wagons
- **Express open/close** operation allows sunroof to be fully opened or closed with one touch of the ceiling-mounted sunroof switch, by pressing switch beyond the point of resistance (detent).
 - ★ *enhances convenience*
- Memory feature **opens the sunroof to the last position** used with a single touch of the switch past the detent.
 - ★ *provides personalized feel*
- An indicator in the **multifunction display** reminds the driver to close the open sunroof when the key is removed from the ignition.
 - ★ *helps prevent inadvertently leaving the roof open when parking*



Panorama roof

Optional Panorama roof

The Panorama roof provides a **continuous glass surface** from the windshield to the rear window.

★ *allows occupants a full view of the sky from cabin, contributing to spaciousness*

- Optional on all sedan models
- Not available on wagons
- Two power-operated perforated **roller blinds** can cover the glass on the inside, emerging from the center section of the ceiling.
 - ★ *allows occupants to block out sunlight*
 - ★ *helps keep cabin cooler when parked*

Sedan exterior

Rear lamp clusters

The sedan taillamp assemblies are arranged vertically (top to bottom, as follows):

- Brake lamps
- Backup lamps
- Turn signals
- Taillamps and reflectors
- A red rear foglamp, integrated in the inner taillamp segment of the left taillamp only



Sedan taillamp (shown with Appearance Package)

- On models with the optional **Appearance Package**, the brake lamps are illuminated by **LEDs** rather than traditional bulbs

◆ **More info:** Tech Guide, p. 23

Cargo area access

The **trunk lid** provides a wide, bumper-height opening.

★ *reduces liftover height when loading and unloading packages*

- The trunk can be opened via the SmartKey remote or an interior switch on the driver's door panel.
 - ★ *adds convenience*

Electronic trunk closer

An electronic trunk closer allows hands-off operation of the trunk lid.

- Opens via the SmartKey or a button on the inside trim of the trunk lid
- Closes via a button on the driver's door or on the inside trim of the trunk lid
- Optional on all E-Class Sedans.
 - ★ *adds greatly to convenience when approaching or leaving car with an armful of packages, especially in the rain*

◆ **More info:** Tech Guide, p. 48

Emergency trunk opener

An illuminated green button on the inside of the trunk lid allows the trunk to be **opened from inside**.

★ *helps prevent being trapped in trunk*

- The button remains illuminated for 60 minutes after the lid is closed.

Wagon exterior

Tailgate

The tailgate provides a wide, bumper-height opening.

★ *reduces liftover height when loading and unloading packages*

- The tailgate can be opened via the SmartKey remote or an interior switch on the driver's door panel.
★ *adds convenience*
- Gas-pressurized struts assist in opening the tailgate.
★ *facilitates loading and unloading of cargo*

Optional power tailgate

A power tailgate allows hands-off operation of the tailgate.

- Opens via the SmartKey or a button on the inside trim of the tailgate
- Closes via a button on the driver's door or on the inside trim of the tailgate
- Optional on all E-Class Wagons
★ *adds greatly to convenience when approaching or leaving car with an armful of packages, especially in the rain*

◆ **More info:** Tech Guide, p. 48



Power tailgate closer



Wagon taillamp (shown with Appearance Package)

Rear lamp clusters

On wagons, the taillamp arrangement is more horizontal than on sedans.

- Wraparound taillamps, brake lamps and turn signals on the fenders
- Backup lamps and single red rear foglamp on the tailgate
- On models with the optional Appearance Package, the brake lamps and taillamps are illuminated by dual-intensity LEDs rather than traditional bulbs

◆ **More info:** Tech Guide, p. 23

Rear-window wiper/washer

Every E-Class Wagon includes a low-profile aerodynamic rear-window wiper with a wide-spray washer nozzle.

- Actuated via a switch on the console
- Automatically operates if the vehicle is shifted into Reverse while the front wipers are on
★ *helps clear away accumulated dirt or moisture*
★ *automatic activation in Reverse adds convenience and safety when backing up in poor weather*



Rear-window wiper

Roof rails

Protective-coated **roof rails** are made of pressure-cast aluminum.

★ *construction enhances durability*

- A variety of **accessory racks and luggage carriers** can be attached.
★ *accommodate a variety of active lifestyles*



Exterior styling walkaround continued

Styling options

Appearance Package exterior

The **Appearance Package** is optional on all gasoline-powered E 320 and E 500 models.

- The package cannot be combined with the AMG Sport Package.

The package includes:

- **Unique lower bodywork:**
 - Sculpted **front apron** with full-width air intake and horizontal styling motif
 - Subtly sculpted **side sills and rear apron**
- **Bi-Xenon headlamps** with active curve illumination and heated washers
- **LED brake lamps**
- **Blue-tinted glass**
- **17" 5-spoke wheels**
- **Black grille** with five chrome ribs and chrome surround

★ adds visual panache to the exterior styling of the E-Class Sedan and Wagons

◆ More info: E-Class Guide, p. 21



Bi-Xenon headlamps with heated washers



17" 5-spoke wheels



E 320 Sedan and E 500 Wagon with Appearance Package

AMG Sport Package

The optional AMG Sport Package is available on all rear-wheel-drive E 320 and E 500 models.

- The package cannot be combined with the Appearance Package or 4MATIC™ all-wheel drive.

The package includes:

- **AMG-design front apron** with black mesh insert (shared with the E 55 AMG)
- **AMG-design rear apron**
- Staggered-width **18" AMG ultrathin-spoke monoblock wheels** with high-performance tires¹
- Dual polished **chrome exhaust tips** (one per side)
- Fender-mounted **Sport badges**
 - ★ adds performance flavor to the body and wheels



AMG-design front air dam



18" AMG wheel



E 320 Sedan with AMG Sport Package

E55 AMG Sport Sedan exterior

Numerous styling details of the E55 AMG Sport Sedan help make it distinct from the other E-Class sedans.



18" AMG wheel

Wheels and tires

- Staggered-width 18" AMG double-spoke wheels¹
 - 8.0J x 18 front
 - 9.0J x 18 rear
- ★ add style and reduce unsprung weight to further enhance performance
- High-performance low-profile tires¹
 - 245/40 ZR18 front
 - 265/35 ZR18 rear

AMG-design lower bodywork

- AMG-design front apron with black mesh insert (shared with the AMG Sport Package)
- AMG-design chiseled side sills and rear apron

Four exhaust finishers

Four polished stainless-steel oval exhaust tips (two per side) are located along the lower edge of the rear apron.

Other details

- Black grille with five chrome ribs and chrome surround
- Blue-tinted glass

¹ 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.



E55 AMG Sport Sedan



E55 AMG lower bodywork and four AMG exhaust finishers

designo editions

Three optional E-Class *designo* editions are offered for 2005.

- Each *designo* edition includes an exclusive-to-*designo* paint color, and numerous interior features.

◆ More info: E-Class Guide, p. 21
Tech Guide, p. 56

designo Silver Edition

- 029 *designo* Silver metallic paint
- *designo* Stone interior
- Brown Poplar wood



designo Silver Edition

designo Espresso Edition

- 033 *designo* Mocha Black metallic paint
- *designo* Sand interior
- Brown Poplar wood



designo Espresso Edition

designo Graphite Edition

- 041 *designo* Graphite metallic paint
- *designo* Graphite interior
- Brown Poplar wood



designo Graphite Edition

Exterior styling walkaround continued

Aerodynamics

Coefficient of drag

Extensive **wind-tunnel testing** helped the E-Class achieve its favorable aerodynamic characteristics.

- Low **coefficient of drag** (Cd):
 - 0.27 for Sedans
 - 0.30 for E 320 Wagon
 - 0.32 for E500 Wagon

Benefits include:

- ★ *low wind noise*
- ★ *excellent fuel efficiency*
- ★ *enhanced stability at highway speeds*

Airflow management

The **front air dam** helps guide the flow of air under and around the moving car.

- All models include **deep aprons** with generously sized air intakes.
- Ducts in the apron channel airflow over the **brakes**, to help keep them cooler.
 - ★ *reduces brake fade during hard driving*
- Air intakes are also used to aid **cooling** of engine and ancillary powertrain components.
 - ★ *cooler operation improves durability*
- Air dam reduces unwanted airflow under the car to **reduce lift**.
 - ★ *improves handling stability*

Water management

Extensive measures have been taken to manage the flow of water over and around the car, to help maintain optimal driver vision through all the windows.

- Deep **channels in the A-pillars** direct water from the windshield onto the roof, helping to divert it from the side windows.
 - ★ *helps keep side windows cleaner*
 - ★ *allows driver to open front windows slightly in the rain (for ventilation) without allowing excessive water into the cabin*
- Additional **roof channels** guide water over the roof, where a channel around the window helps guide it around the rear window, into the trunk lid seam.
 - ★ *helps keep rear window cleaner when driving in the rain*

Side mirrors

The side mirrors are designed to contribute positively to **water management**.

- A **groove** around the trailing edge of the mirror housing creates beneficial turbulence in the airflow behind the mirrors when driving.
 - ★ *helps divert water away from the front side windows*
 - ★ *improves driver's side vision when driving in the rain*
- Mirrors are **automatically heated** when the car is running.
 - ★ *helps remove moisture and fog from side mirrors*
 - ★ *improves driver's side and rear vision*



E500 Sedan with Appearance Package and Panorama roof



E500 Sedan with Appearance Package

Interior overview

Uniquely appealing, instantly familiar

The interior of the E-Class perfectly echoes the sporty and dynamic design of the exterior. The occupants encounter fine materials, high-quality surfaces and countless attractive details. Its modern look features harmonious lines and sweeping double curves that flow into the doors, ultimately creating an atmosphere of undeniable luxury.



E 500 Sedan

Design highlights

Highlights of the E-Class interior include:

- World-class materials, including hand-finished genuine wood and elegant chrome trim
- Clearly, logically arranged controls highlighted by large analog gauges for quick reference
- Switches and dials designed for both comfort and ease of use
- Abundant vents for excellent air circulation, including in the rear seating area
- Standard third-row seat in wagons that increases passenger capacity to seven
- A versatile cargo area in wagons that benefits from tie-down rings, a cargo cover and 60/40-split second-row seats that fold flush with the cargo floor
- A host of comfort and convenience features, including multiple 12-volt power outlets and a standard Tele Aid system that offers subscribers emergency assistance and numerous services

Model differences

Distinguishing interior features of the **E 320** and **E 320 CDI** models:

- Leather front seating inserts
- Dual-zone automatic climate control with rotary temperature controls

The **E 500** models add:

- Premium leather upholstery
- 4-zone climate control with individual digital temperature/airflow controls and rear-cabin vents in the B-pillars

Distinguishing standard features of the **E 55 AMG Sport Sedan**:

- AMG-design upholstery in Nappa leather and nubuck with metal AMG badges
- Heated, multicontour sport front seats
- Black birdseye maple trim
- AMG-design instrument cluster with ivory-color gauges and matte chrome bezel
- AMG-design sport steering wheel with raised thumbgrips and shift buttons
- AMG-design door sill trim
- harman/kardon® LOGIC7® digital surround sound system

Layout and controls

The spacious, airy driving environment of the E-Class features **logically oriented instruments and controls**. Secondary controls are intuitively 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, analog clock and electronic bar-graph gauges for coolant temperature and fuel level to either side.

A standard **multifunction display** is located within the speedometer and is operated via the steering wheel controls.

- Gauges are encircled by **chrome rings**.
★ *enhances appearance and quality feel*
- Gauges on the **E55 AMG** and with the optional **Appearance Package** feature **ivory-color** faces with white backlighting.
★ *enhances sporty appearance*

A standard **multifunction display** is located in the center of the instrument cluster 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.

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 for the **front foglamps**
 - **two** detents for the both the front foglamps and the single **red rear foglamp** together
- ★ *conveniently places all exterior lighting on-off functions in one switch*

- Optional **headlamp washer** pushbutton is adjacent to headlamp 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 children from operating windows*
- Power front seat controls feature **seat-shaped switches** on each front door.
- The optional **Keyless Go** engine start/stop button is located atop the gearshift knob.



E 320 Sedan

Layout of controls (left to right)

Driver's door panel (top to bottom)

- 10-way power driver's seat and memory
- Power windows with lockout for passenger controls
- Power side mirrors
- Trunk opener (sedans)

Left dash panel (top to bottom)

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

Instrument cluster

- Analog clock, speedometer, tachometer (left to right)
- Bar-graph coolant temperature and fuel level gauges
- Multifunction display (in center of speedometer face)
- 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)

- Climate controls
- COMAND with in-dash CD and optional DVD navigation
- Lower switch bank (left to right):
Heated/Active Ventilated driver's seat¹, rear sunshade (sedans)¹ or rear-window wiper (wagons), rear head-restraint retractor, passenger air bag indicator, hazard flashers, central lock/unlock, ESP off, antitowaway protection defeat (and antitheft alarm indicator), heated or Active Ventilated front passenger seat¹
- In-dash 6-CD changer,¹ concealed behind switch panel

Center console²

- Gearshift (with Comfort/Sport mode)
- Cupholders (inside armrest)
- Tele Aid¹ i-button and wrench button (inside armrest)

Overhead console

- Tele Aid SOS button
- Sunroof controls¹
- Ambient lighting controls and dual reading lamps
- Garage door control (underneath rearview mirror)

¹ Optional on some models. See Equipment charts.

² Console design subject to change in mid-2005 production.

Audio 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**
- Integrated **single-disc audio-CD player**
- A large **6.5" color-LCD screen**
- Optional **DVD-based navigation system** with trunk-mounted **DVD drive**
- Controls for optional **6-disc CD changer** and optional **Hands-Free Communication System** with portable phone

◆ **More info:** Tech Guide, p. 38–41



COMAND-DVD navigation system

Multifunction controls and display

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

★ *allows basic audio system adjustments without taking hands off the steering wheel*

- The **multifunction display** can show:
 - Radio station and preset number
 - CD number and track
 - Digital speed, outside temperature, and distance to next maintenance service
 - Fuel economy, distance to empty, and trip computer data (see page 23)
 - Navigation instructions (optional)
 - Phone book (optional)
 - Programmable vehicle settings

★ *enhances driver convenience*

Audio systems

9-speaker audio system

The **standard audio system** in the E320 and E500 models features:

- Nine speakers
- Automatic **speed-sensitive volume** control
 - ★ *maintains more constant sound level as driving speeds change*
- The **subwoofer** was **deleted** in mid-2004.

harman/kardon surround sound

- 420-watt, 12-speaker **harman/kardon® LOGIC7® digital surround sound** system
- Standard on the E55 AMG
- Optional on all other models as part of the **Entertainment Package** or **Premium Package**, both of which also include an in-dash 6-CD changer (see below).

◆ **More info:** Tech Guide, p. 39



Optional in-dash 6-disc CD changer

- Available as:
 - a standalone factory option
 - part of the Entertainment Package or Premium Package
- Concealed behind a **motorized wood-trimmed door** (which includes the lower switch panel) in the center dash panel

- **Single-feed design** needs no magazine to hold discs: All discs are fed, one at a time, into the single slot.
- Controlled via the in-dash radio
- ★ *concealed installation enhances security*
- ★ *location is within convenient reach of driver or front passenger, to change discs*



SIRIUS Satellite Radio display

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: E-Class Guide, p. 11

Telematics

Tele Aid is standard on all models.

◆ **More info:** Tech Guide, p. 52, 54

Seating and trim

Seating

With extended-range comfort, durable and luxurious materials, and versatile seating and cargo arrangements, the seats of every E-Class offer luxury and utility that can be appreciated by more than just the driver.

Construction

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

- Front seats offer **deep, padded side bolsters** for comfort and support.
- Second-row seats can accommodate up to three passengers and include a folding center armrest with enclosed storage and retractable dual cupholders.
- Sheet metal is integrated in the second-row seatbacks.
★ *helps protect against shifting cargo*



Sedan Rear Seat Package

60/40-split folding rear seats

Folding rear seats include a 60/40 split and seat cushions that tip forward, allowing the seatbacks to fold flush with the cargo floor.

★ *adds cargo-carrying versatility and space*

- Standard on wagons (second row)
 - The head restraints automatically fold when the seatbacks are released.
★ *enhances convenience of folding*

- Optional on sedans as part of Rear Seat Package, which also adds a **ski sack** and **center-armrest pass-through**.
 - Release handles are in the trunk.



Wagon rear-facing third-row seat

Third-row seat (wagons)

Every E-Class Wagon comes with a **folding, rear-facing 3rd-row seat** in the cargo area that features:

- Dual adjustable head restraints
- Two 3-point seat belts
- A dual cupholder
- The footwell of the third row seat serves as an additional concealed storage area for small items when the seat is not in use.

The third-row seat:

- is **suitable for carrying two children**
 - up to 110 pounds in weight
 - and up to 55" in height.
- increases passenger capacity to **seven**

Front seat adjustment

- Both front seats **power-adjust 10 ways**:
 - Fore-aft
 - Seat height
 - Cushion tilt
 - Seatback angle (recline)
 - Head restraint height
- Functions are operated via **seat-shaped switches on the front doors**.

Memory and power steering column

- Every E-Class also includes:
 - A **4-way power steering column**, adjusted via a stalk on the lower left side of the steering column
 - **3-position memory** for each front seat (driver's seat memory includes steering column and side mirror positions)
 - 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

Multicontour front seats

The E55 AMG front seats feature **pneumatic adjustment** of the side bolsters, the dual lumbar supports, and the thigh support.

- See also: Drive-Dynamic seats, at right

♦ **More info: Tech Guide, p. 45**



Power seat and side mirror controls

Head restraints

The **front head restraints** adjust for **height and angle**, pivoting at the top so the bottom of the head restraint moves fore and aft.

- Front-seat head restraints include power height control, with **automatic setting** of height based on fore-aft seat movement.
★ *helps position head restraint properly*

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 (for the second row only on wagons), operated via a switch on the dash.
 - The wagon head restraints also retract automatically when the second-row seatbacks are folded down.

★ *enhances driver's rear vision when the rear seats are unoccupied*

★ *remote control enhances convenience*



Rear head-restraint retractor (third button from left)

Upholstery and trim

The materials found in the E-Class interior reflect high standards, including **fine velour carpeting** and hand-polished **wood trim** enhanced with chrome edging.

- Stylish **metal trim** adorns door sills and touch points, complemented by **chrome rings** around the gauges and most switch clusters.

★ *adds a high-quality look and feel*

E 320 and E 320 CDI models

- Standard **M-B Tex** upholstery with **leather front seating inserts**
 - Colors: **Charcoal, Stone, Ash**
- **Optional premium leather** on all seat surfaces, including side trim, head restraints and seatback magazine pockets, as well as gathered leather door trim inserts
 - Colors: **Charcoal, Stone, Ash**
- Standard hand-polished **Burl Walnut wood trim**
 - Optional **Black Birdseye Maple wood** (as part of the Appearance Package)



E500 Sedan with optional wood and leather steering wheel

E500 models

- Standard **premium leather** upholstery on all seat surfaces
 - Colors: **Charcoal, Stone, Ash**
- Standard hand-polished **Burl Walnut wood trim**
 - Optional **Black Birdseye Maple wood** (as part of the Appearance Package)

E55 AMG Sport Sedan

- Standard **AMG-design Nappa leather** with soft, sanded **nubuck** inserts
 - Colors: **Charcoal** leather/nubuck, or two-tone **Charcoal** leather with **Merlot** or **Dark Blue** nubuck inserts
- Standard **Black Birdseye Maple wood trim**
 - **Burl Walnut wood trim** is optional.
- Metal AMG badges in seatbacks
- Stainless-steel AMG door sill trim

1 Not available on E55 AMG



Appearance Package interior, shown in an E320 Sedan (console design subject to change during 2005 production)

Seating options

Heated front seats

Heated front seats offer three heat settings.

- Standard on E55 AMG
- Optional on all other models

Active Ventilated front seats

Optional on all models, Active Ventilated front seats use **miniature internal fans** to draw air from beneath the seat and expel it through perforations in the upholstery.

- Requires premium leather upholstery on E 320 and E 320 CDI models

Drive-Dynamic front seats

Optional on all models, Drive-Dynamic front seats automatically **inflate and deflate the side bolsters** to provide added lateral support in response to cornering forces.

- Include **dynamic** multicontour seatbacks

◆ **More info on seating options:**
Tech Guide, p. 45

Appearance Package interior

The E-Class Appearance Package includes a unique interior environment to complement its exterior and handling enhancements.

- Optional on E 320 and E 500 models
- Interior features of package:
 - **Black Birdseye Maple wood trim** (or **Burl Walnut** at no extra charge)
 - **Matte chrome trim** for the shift knob inlay, gearshift surround and instrument cluster bezel.

◆ **More info:** **E-Class Guide, p. 14, 37**

designo editions

Three E-Class *designo* editions are optional for 2005, all with **Brown Poplar wood trim**:

- **designo Silver Edition**¹:
 - Stone interior
 - Stone Nappa leather upholstery
- **designo Espresso Edition**:
 - Charcoal interior
 - Sand Nappa leather upholstery
- **designo Graphite Edition**:
 - Charcoal interior
 - Graphite Nappa leather upholstery

◆ **More info:** **E-Class Guide, p. 15, 37**
Tech Guide, p. 56



designo Espresso Edition

Comfort and convenience

Climate control

Dual-zone climate control

E 320 and E 320 CDI models feature a **dual-zone climate control** system. Features of the system include:

- **Individual left and right temperature controls** with simple turn-knob adjusters
- **Auto mode** adjusts **blower speed** and **air distribution** automatically, or both can be adjusted manually.
- Recirculation feature with “**tunnel mode**” that closes all windows and the sunroof by holding the Recirculation button. (Holding it a second time reopens them.)
- **Dust and pollen filter** to trap airborne particles five microns or larger
- **Humidity sensor** to help prevent window fogging or overdrying of cooled air
- **Four adjustable vents** in dash, plus a high-volume/low-draft dash-top diffuser outlet and dual **rear-seat air vents** (at back of console)
- **Revised controls** for 2005, with clearer labeling of functions
- The **REST mode** is deleted for 2005.

◆ **More info:** Tech Guide, p. 42–43

Digital 4-zone climate control

E 500 and E 55 AMG models feature **4-zone climate control**. Enhancements over the dual-zone system include:

- Left and right **digital temperature controls** with pushbutton adjusters
- **Rear-cabin controls** (at back of the console) for left and right temperature and airflow volume
- 2-way directional **sun sensor**
- **Revised controls** for 2005, with clearer labeling of functions
- The **charcoal filter**, **smog sensor** and **REST mode** will all be deleted midyear.

◆ **More info:** Tech Guide, p. 42–43



Rear-cabin control panel for 4-zone climate control



Dual-zone automatic climate control (E 320 and E 320 CDI models)

Convenience features

Central locking

All four doors, the trunk lid/tailgate, and the fuel filler door can be locked or unlocked via a switch 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.
- The **switch** is reconfigured for 2005 so the unlock button is the upper half, to match the logic of the manual door lock buttons.

◆ **More info:** Tech Guide, p. 34

Garage door control

Garage door openers and security gates that are compatible with HomeLink® and some other systems can be opened by a programmable **3-button control** integrated into the rearview mirror housing.

- **Standard** on all models

◆ **More info:** Tech Guide, p. 35

Power windows with express-up/down

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 obstacle is detected.
- Windows can be **opened or closed from outside**: Aim SmartKey at the infrared sensor in the **driver's door handle** and hold the unlock or lock button.
 - ★ *remote opening helps cabin to cool off before occupants enter on a hot day*
 - ★ *remote closing adds to convenience*



Auto-dimming mirror with map lamps and garage opener



4-zone automatic climate control (E 500 and E 55 AMG models)

Remote trunk opener

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

- The **valet lockout feature** was **deleted** during 2004.

Auto-dimming rearview mirror

Dual sensors on the inside mirror compare the light in front of the car and approaching 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
- Includes **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*

Sun visors and vanity mirrors

- **Two-piece** sun visors are **standard**.
 - The main visor can be moved to the side window while the secondary visor is used in the windshield.
- **Illuminated vanity mirrors** are included.

12-volt power outlets

- One with the lighter in the **front ashtray**
- One in the **rear of the front console**
- **Wagon models** feature an additional 12-volt power outlet in the **cargo area**.



Ambient lighting unit for front cabin

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.
- Overhead lighting is **adjustable**:
 - in steps for front cabin lighting
 - infinitely for rear cabin (lighting unit is located in ceiling between B-pillars)

◆ **More info: Tech Guide, p. 50**

Cruise control

- Cruise control is **standard** on all models.
- **Distronic** cruise control is optional only on the E 55 AMG for 2005.

◆ **More info: Tech Guide, p. 46**

Trip computer

A digital trip computer in the **multifunction display** (see page 19) 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 E-Class models.

◆ **More info: Tech Guide, p. 50**

Comfort options

Keyless Go

- The Keyless Go unlocking and engine starting system is **optional** on all models.

◆ **More info: Tech Guide, p. 48**



Keyless Go engine start/stop control on gearshift

Parktronic

- The Parktronic audiovisual **parking-assistance** system is optional on all E-Class **sedans**.

◆ **More info: Tech Guide, p. 51**

Power rear-window sunshade

An optional **fine mesh screen** inside the cabin can be electrically raised to help reduce glare through the rear window.

- Part of **Sunroof** and **Premium Packages**
- Operated by a switch in center of dash
- Includes **one-touch** express-up/down
 - ★ *helps shield rear cabin from sunlight without significantly reducing rear vision*
 - ★ *helps keep cabin cooler on sunny days*

Rear side-window shades

- Optional manual **roller-type** shades for the rear side-door windows
- Part of **Sunroof** and **Premium Packages**
 - ★ *expands benefits of power rear-window sunshade to side windows*
 - ★ *adds privacy for rear-seat passengers*



Heated steering wheel switch (on lower left stalk)

Heated steering wheel

- Optional on E 320 and E 500 models as part of the Heating Package.
- Not available on E 55 AMG, with E-Class *designo* editions, or in combination with leather and wood trimmed steering wheel

◆ **More info: Tech Guide, p. 51**



Wood and leather steering wheel

A wood and leather trimmed steering wheel is available in **Burl Walnut** or **Black Birdseye Maple** wood to match the interior.

- Available on E 320, E 320 CDI and E 500 as
 - a factory option
 - a dealer-installed accessory
- Included in E 320, E 320 CDI and E 500 *designo* editions
- Not available on E 55 AMG, or in combination with heated steering wheel

Cargo and storage

Cabin storage areas

Multiple compartments

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

- A full-size **illuminated glovebox**
- A **pop-out drawer** in the dash, next to the glovebox, for sunglasses, pens, etc.
- A **pocket** in each door
- **Center console compartment** with dual cupholders (design subject to change during 2005 production)
- **Parcel net** in front passenger's footwell¹
- Gathered **magazine pockets** on the back of each front seat



Pop-open drawer in dash

Cupholders

- Two in the **front center console**, ahead of the armrest (will move inside armrest compartment during 2005)
- Two in the **rear center armrest** for second-row passengers
- Two integrated into the lower seat cushion of the wagon **third-row seat**



Rear center armrest (shown open)

Cargo area

Sedan trunk

The E-Class sedans feature a fully lined, generously sized trunk (nearly **16 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*



Fully lined sedan trunk

Wagon cargo area

With the 60/40-split second-row seat folded down and the rear-facing third-row seat stowed, there is nearly **70 cu ft of cargo volume** available with the driver and front passenger aboard.

- The second-row seatback **can be tilted forward** by nearly 2" at the window line.
 - ★ *expands cargo area while retaining a comfortable seatback angle for second-row occupants*
 - ★ *accommodates both passengers and larger cargo items simultaneously*
- The removable **storage box** and optional **cargo organizer system** are discontinued for 2005.



Wagon cargo configurations

Luggage cover and partition net

All E-Class wagons include a horizontally retractable **luggage cover** and vertically retractable **partition net**.

- The luggage cover **electrically lifts** when the tailgate is opened, and **automatically lowers** upon closing).
 - ★ *allows convenient access to cargo area without manually retracting the cargo cover*
- The vertical **partition net** can be extended to divide the cargo and passenger area in either of two positions:
 - from the **top of the second-row seatbacks to the ceiling** (with the second-row seat in use)

¹ Parcel net deleted on models with 4MATIC all-wheel drive.

- **floor-to-ceiling** behind the front seats (when the rear seats are folded down)
 - ★ *allows cargo area to be divided from the passenger area, as when carrying dogs*

Tie-down rings

E-Class sedans and wagons offer tie-down rings to help **secure cargo** and to **attach accessory cargo nets**.²

- Four in **sedan** trunk, on corners of floor
- Four in **wagon** cargo floor
- Two ahead of **folding rear seats** (optional on sedans, standard on wagons), near the second-row footwell

² Properly secure all cargo.



Wagon cargo area with all rear seats lowered

Mechanical overview

Although every E-Class is remarkably satisfying even when it's standing still, its true beauty comes to life when it's put in motion. As with all Mercedes-Benz models, the E-Class has been thoroughly and thoughtfully engineered to deliver an unparalleled combination of invigorating performance, confidence-inspiring safety, and pure driving pleasure.



E 320 Sedan

Mechanical highlights

- State-of-the art gasoline powered **V-6**, **V-8** and **AMG V-8** engines, as well as a revolutionary new **turbocharged diesel inline-6**, deliver abundant yet efficient power and torque.
- Standard **rear-wheel drive** offers sporty, balanced handling characteristics.
- Available **4MATIC™** all-wheel drive ensures superb handling confidence in a variety of driving conditions in any season.
- Ultra-responsive speed-sensitive **rack-and-pinion steering** affords precise response and confident control.
- Refined **4-wheel independent multilink suspension** provides crisp, responsive handling with excellent ride comfort.
- 4-wheel disc brakes with electrohydraulic **Sensotronic Brake Control**, ABS and emergency-sensing Brake Assist offer exceptionally precise braking while helping keep stopping distances short.
- Standard **safety advantages** range from our Electronic Stability Program (ESP) to the **10-way protection of eight standard air bags**.

Engines and transmissions

3.2-liter V-6 and 5.0-liter V-8

The **gasoline-powered** 3.2-liter V-6 engine in the **E320** models and the 5.0-liter V-8 in the **E500** models offer refined, strong and efficient performance.

E320 basic engine specs

- Peak power: **221 hp** @ 5,600 rpm
- Peak torque: 232 lb-ft @ 3,000–4,800 rpm
- Displacement: 3,199 cc

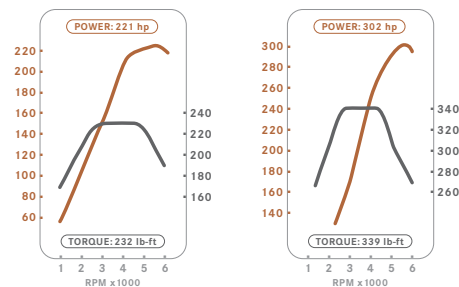
E500 basic engine specs

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

Engine features

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

◆ **More info:** Tech Guide, p. 14–15



E320 engine output

E500 engine output

3.2-liter turbodiesel inline-6

The **turbocharged diesel** 3.2-liter inline-6 in the **E320 CDI** combines outstanding fuel economy, incredible torque and remarkably smooth, quiet operation.

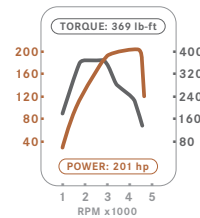
E320 CDI basic engine specs

- Peak power: **201 hp** @ 4,200 rpm
- Peak torque: 369 lb-ft @ 1,800–2,600 rpm
- Displacement: 3,222 cc

Engine features

- Cast-iron block, aluminum heads
- Double overhead camshafts (DOHC) with four valves per cylinder
- Common-rail Direct Injection
- Intercooled **variable-nozzle turbocharger**
- Fuel requirement: diesel fuel #2

◆ **More info:** Tech Guide, p. 14, E-Class Guide, p. 8



E320 CDI engine output



E320 CDI engine

Supercharged 5439-cc AMG V-8

The handcrafted **supercharged V-8** in the **E55 AMG** features numerous enhancements that allow it to produce high output while retaining its docile around-town behavior and legendary Mercedes-Benz durability.

E55 AMG basic engine specs

- Peak power: **469 hp** @ 6,100 rpm
- Peak torque: 516 lb-ft @ 2,650–4,500 rpm
- Displacement: 5,439 cc

Engine features

- **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. 18



E55 AMG engine

Transmissions

5-speed automatic

Most models feature an **electronically controlled 5-speed** automatic transmission.

- **Standard** on all 6-cylinder models and 4MATIC™ models

◆ **More info:** Tech Guide, p. 16–17

- **Standard** on E55 AMG, with specific AMG modifications

◆ **More info:** Tech Guide, p. 18

7-speed automatic

The **rear-wheel-drive E500 Sedan** features the industry's first 7-speed automatic transmission.

◆ **More info:** Tech Guide, p. 16

Other transmission features

Every E-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. 16–17



Touch Shift

Traction and stability

ESP

Electronic Stability Program

Every E-Class features our Electronic Stability Program (ESP).¹

★ *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.¹

★ *helps counteract wheelspin under acceleration*

◆ **More info:** Tech Guide, p. 7

¹ No system, no matter how sophisticated, can repeal the laws of physics. 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.



E500 Sedan

4MATIC all-wheel drive

Full-time all-wheel drive

4MATIC is a **permanent, full-time all-wheel drive** system.¹ It is always active.

- **Standard** on **E500 4MATIC Wagon**
- **Optional** on **gasoline-powered E320** models and the E500 Sedan only
- Includes **5-speed** automatic transmission
- 4MATIC sends torque to **all four wheels** under **normal driving conditions**:
 - 40% to the front axle
 - 60% to the rear axle
- ★ *maintains 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.

- 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

Sensotronic and 4-ETS

Although the 4MATIC system on the E-Class is essentially identical to the systems offered on the C-Class and S-Class, the integration of **Sensotronic's electrohydraulic braking of each wheel individually** with 4MATIC's

programming enables 4-ETS to respond even **more quickly and precisely**.

◆ **More info:** Tech Guide, p. 13

Unique front suspension

E-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*



E500 4MATIC Wagon

Suspension

4-wheel multilink design

All rear-wheel-drive E-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

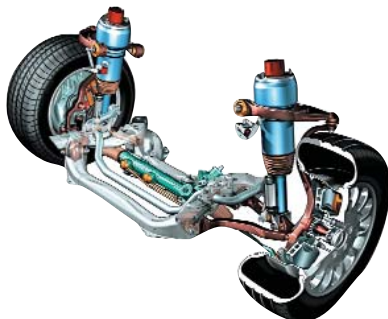
For each front wheel, the 4-link design consists of:

- An upper wishbone mounted to the body
- Two lower links mounted to the front subframe
- A stabilizer bar
- ★ *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



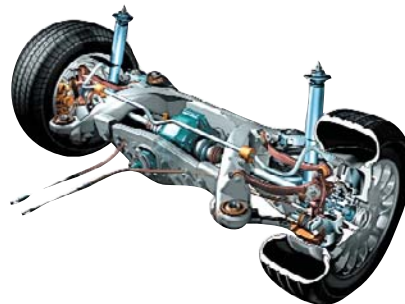
5-arm multilink rear suspension

Suspension types

E 320 steel-spring suspension

The standard suspension on the **E 320** and **E 320 CDI** models utilizes **shock absorbers** and **steel coil springs** at all four corners.

- **Front:** coil springs concentrically positioned over gas-pressurized shock absorbers
- ★ *compact design provides excellent balance of ride and handling with favorable packaging and crashworthiness*
- **Rear (sedans):** separately located coil springs and shock absorbers
- ★ *allows shock absorbers to be positioned for more precise wheel control while coil springs can be positioned for optimum balance of ride quality and packaging efficiency for improved cargo space*
- **Rear (E 320 Wagon):** separately located coil springs and **pneumatic** shock absorbers with **automatic level control**
- ★ *allows for optimum balance of ride quality and packaging efficiency for improved cargo space*
- ★ *automatic rear-axle level control helps maintain ride height, headlamp aim, and balance of ride and handling with varying cargo and passenger loads*



4-link front suspension

Airmatic Dual Control air suspension

Airmatic DC is a semi-active air suspension system replacing the traditional steel springs and gas-pressurized shock absorbers with electronically controlled **air spring-struts**.

- **Standard** on E 500 models and E 55 AMG
- **Optional** on gasoline-powered E 320 models as part of Appearance Package

Key features of Airmatic include:

- **4-wheel automatic level control**
- **Automatic lowering** at higher speeds¹
- Driver-selectable **ride height**

Airmatic Dual Control, unique to the E-Class, adds **semi-active response** to the dynamic forces of cornering, braking and accelerating.

◆ **More info:** Tech Guide, p. 9

Adaptive Damping System (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

Wagon enhancements

- **E 320 Wagon:** Standard **self-leveling rear suspension** utilizes elements of Airmatic to respond to changes in payload.
- 4-wheel Airmatic DC suspension is optional as part of the Appearance Package
- **E 500 4MATIC Wagon:** Standard Airmatic provides **4-wheel** automatic level control.
- ★ *helps maintain ride height and handling stability as passenger and cargo loads vary*

E 55 AMG enhancements

The E 55 AMG Sport Sedan utilizes an **AMG-recalibrated** Airmatic Dual Control semi-active suspension that is specifically tuned to match the performance characteristics and 18" wheels and tires of this high-performance automobile.

Other E 55 AMG enhancements include:

- Thicker front and rear **stabilizer bars**
- Performance-tuned **springs**
- ★ *enhance high-performance driving characteristics of E 55 AMG*



Airmatic ride height and ADS Sport mode controls

¹ Obey all speed laws.

Steering and brakes

Steering

Speed-sensing power rack-and-pinion

Every E-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 of the steering system.

- ★ reduces vibration and wheel shudder
- ★ helps absorb rough-road “steering shock”
- ★ enhances comfort in virtually all driving conditions

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

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



E 320 Wagon

Brakes

Brake system

The E-Class includes a state-of-the-art combination of brake system elements:

- **Sensotronic** Brake Control (see below)
- **4-wheel disc brakes**, with:
 - ventilated front discs (all models)
 - ventilated rear discs (wagons, E500 models and E55 AMG)
- Antilock Braking System (ABS)
- Emergency-sensing **Brake Assist**

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

Sensotronic Brake Control

The first **electrohydraulic braking** system in production – Sensotronic Brake Control – is standard on the 2005 E-Class.

- **Electronics** replace many mechanical components of conventional systems.
- Braking can be **individually controlled** and modulated at **each wheel**.
 - ★ optimizes brake proportioning at each wheel for varying driving maneuvers, loads and other conditions
- ABS activation is **pulsation-free**.
- Other features of Sensotronic include:
 - **Automatic brake drying**
 - **Predictive brake priming**
 - Soft Stop has been **deleted** for 2005.
 - ★ Sensotronic provides extremely efficient and precise braking in virtually any driving situation

◆ **More info:** Tech Guide, p. 13, 21

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

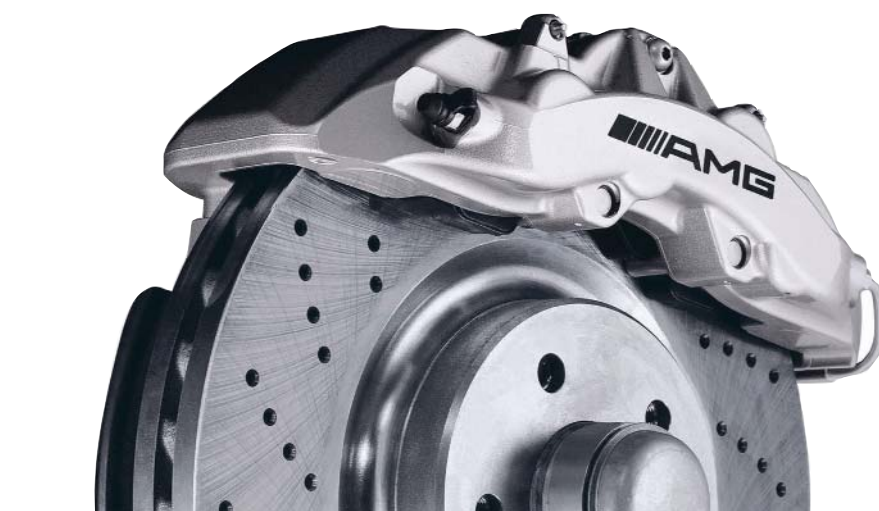
AMG enhancements

The E55 AMG features **AMG-recalibrated** Sensotronic controls and **specific brake components**, all to match this model’s high-performance character:

- Larger (14.2" in diameter), **perforated and internally ventilated** front brake discs with **8-piston** AMG calipers
- Larger (14.2" in diameter), **perforated and internally ventilated** rear brake discs with **4-piston** calipers.

◆ **More info:** Tech Guide, p. 18

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



E55 AMG front brake with perforated, internally ventilated rotor and 8-piston caliper

Body construction

Monocoque structure

The **rigid body structure** of the E-Class is its foundation, allowing it to offer superb handling and excellent crashworthiness, along with high durability and a quiet ride.

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

◆ **More info:** Tech Guide, p. 26

Innovative sheet metal

High-strength/low-alloy (HSLA) steel (shown above right) is used extensively.

- HSLA is up to **three times stronger** than lower-carbon steel.
- HSLA is used for approximately **47% 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.

- **Multiple-thickness floorpan**
 - Formed of sheet steel of varying thicknesses
 - **Laser-welded** together
 - Then stamped into a high-strength structural element
 - ★ *combines high strength and low weight*
- **Variable-thickness body components**
 - Thicker panels for body areas subject to higher stress levels in an impact
- **Optimized forming**
 - Panel shapes and cross-sectional



E-Class sedan body structure. HSLA steel is shown in red.

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 (eight on wagons) features **triple-layer construction**, including a layer of HSLA steel.
 - ★ *affords maximum strength*
 - ★ *supports doors more effectively*
- **Body crossmembers** in the roof, bulkhead and under the cabin floor
 - ★ *enhance rigidity and lateral strength*



E-Class sedan in side-impact crash test

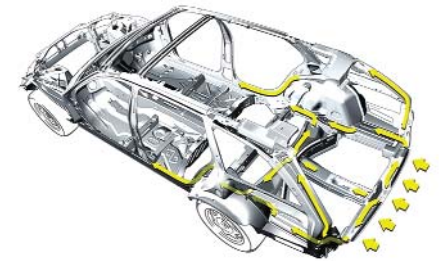
- **Single-piece side panels**, from the A-pillar to the end of the rear fenders
 - ★ *enhance integrity and panel fit*
- The **windshield** is bonded to the body by a quick-drying adhesive.
 - ★ *lets windshield become part of body structure, increasing overall body rigidity*

Impact energy management

- **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

- The **side rails extend** forward beyond the ellipsoidal bulkhead to the wheel arches.
 - ★ *designed to absorb some energy from a wheel driven rearward in a frontal impact*
- **Steel-magnesium steering wheel**
 - ★ *designed to deform in a frontal impact if wheel is impacted by the driver*
- **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 more serious offset impact*
 - ★ *bolt-on, replaceable design helps reduce repair costs for minor impacts*



Reinforced wagon structure

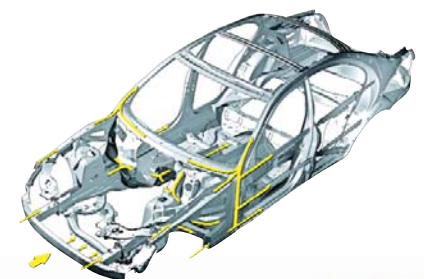
The wagons feature **crossmembers** in the roof and cargo-area floor, while a **steel frame** surrounds the tailgate.

- ★ *enhances structural rigidity and integrity, even when fully loaded with cargo*

Fuel tank

The **saddle-type fuel tank** is positioned forward of the rear axle, beneath the car.

- ★ *plastic tank is designed to be more resistant to punctures than steel*
- ★ *location is outside of both the rear crumple zone and the passenger cabin*



E-Class sedan in offset front impact crash test

Restraint systems

Beyond air bags

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

10-way protection from eight air bags

No car in its class offers **more standard air bags**¹ than the E-Class.

- Adaptive **dual-stage front air bags** for both driver and front passenger
- Four **side-impact air bags**
 - two in each front seatback side panel
 - two in each rear door
- **Head Protection Curtains**, to help protect front-seat and outboard second-row occupants from head injury and broken glass during certain side impacts

New Occupant Classification System

New for model year 2005, OCS replaces the BabySmart™ system.¹

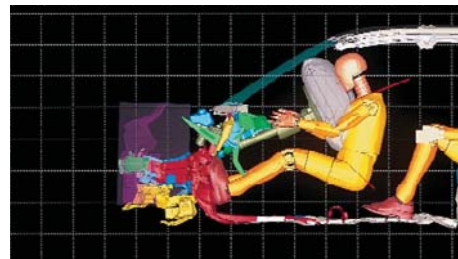
- Standard on all 2005 E-Class models
- A system of highly accurate **weight-sensing** bolts in the front-passenger seat-cushion frame classifies the **passenger's weight** into a category.
- OCS is designed to **turn off the front passenger's front air bag** when the system senses the weight of a typical child 12 months old or less, plus the weight of a standard appropriate child restraint.
 - A specific BabySmart-compatible seat is **not required**.
- OCS also **adjusts the inflation rate** of the two-stage air-bag gas generator based on the weight of the seated occupant.
- The **"PASS AIR BAG OFF"** indicator (in the

central dash) will **remain illuminated** whenever the system has **deactivated the air bag**.

- A **message** in the multifunction display will also be displayed whenever the air bag **turns on or off** during driving.
- ★ *OCS tailors the inflation of the front passenger's front air bag to the weight category of the seated occupant*

Important note: If an occupant's weight is **near a threshold** of one of the weight classifications, or if the seated occupant sits or changes position in a way that affects the weight sensors' readings (e.g., by leaning heavily on the armrest), OCS can detect a lower reading and **might turn off the air bag** and illuminate the indicator, or **deploy the air bag differently** than if the occupant were sitting normally.

¹ **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. **OCCUPANT CLASSIFICATION SYSTEM (OCS)** IS DESIGNED TO TURN THE FRONT PASSENGER'S FRONT AIR BAG OFF WHEN THE SYSTEM SENSES THE WEIGHT OF A TYPICAL CHILD 12 MONTHS OLD OR LESS, PLUS THE WEIGHT OF A STANDARD APPROPRIATE CHILD RESTRAINT. **SEE OPERATOR'S MANUAL** FOR IMPORTANT ADDITIONAL INFORMATION AND FOR FURTHER INFORMATION REGARDING THE TRANSPORTATION OF CHILDREN HEAVIER THAN A TYPICAL 12-MONTH-OLD.



E-Class sedan in side-impact crash test

Seat belts and other features

Seat belts

Every E-Class occupant is provided with a **3-point seat belt**, including the two rear-facing passengers in the wagons' third row.

- All forward-facing outboard shoulder belts feature **Emergency Tensioning Devices (ETDs)** and **belt force limiters**.
- Shoulder belts are **manually height-adjustable** for both front seats (and the wagons' outboard second-row seats).
- Shoulder belts are **automatically height-adjusting** for the outboard rear seats on sedan models.

Integrated rollover sensor

Every E-Class features a rollover sensor that automatically deploys the Head Protection Curtain air bags and ETDs when certain indicators suggest a rollover is imminent.

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 to protect driver's knees, in a severe frontal collision*



Head Protection Curtain deployed (E-Class sedan rear seat)

- **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.

◆ **More info on air bags and restraint systems: Tech Guide, p. 28–32**

Head restraints

All E-Class seating positions, including the rear-facing third-row seats on wagons, include height-adjustable head restraints.

- Front and outboard second-row head restraints also adjust fore-aft for optimal support and comfort.
- ★ *help prevent whiplash injuries*
- ★ *adjustability extends protection and comfort to occupants of varying sizes*



Head Protection Curtain deployed (front seat)

Specifications

ENGINE	E 320 SEDAN E 320 WAGON		E 320 CDI SEDAN ¹	E 500 SEDAN E 500 4MATIC WAGON		E 55 AMG SPORT SEDAN
Engine type Construction	3,199-cc SOHC 18-valve 90° V-6 High-pressure die-cast alloy cylinder block. Alloy heads		3,222-cc DOHC 24-valve inline-6 Cast-iron cylinder block. High-strength aluminum-alloy head. Continuously variable intake and exhaust valve timing	4,966-cc SOHC 24-valve 90° V-8 High-pressure die-cast alloy cylinder block. Alloy heads		5,439-cc AMG-built intercooled supercharged SOHC 24-valve 90° V-8 High-pressure die-cast alloy cylinder block. Reinforced crankshaft and valvetrain. Alloy heads. Lightweight camshafts. Reinforced engine block, oil pan structure, pistons, connecting rods and crankshaft
Net power Net torque Compression ratio	221 hp @ 5,600 rpm 232 lb-ft @ 3,000–4,800 rpm 10.0:1		201 hp @ 4,200 rpm 369 lb-ft @ 1,800–2,600 rpm 18.0:1	302 hp @ 5,600 rpm 339 lb-ft @ 2,700–4,250 rpm 10.0:1		469 hp @ 6,100 rpm 516 lb-ft @ 2,650–4,500 rpm 9.0:1
Induction	Magnesium 2-stage resonance intake manifold increases intake runner length at lower rpm for improved response		Intercooled, electronically controlled Variable Nozzle Turbocharger (VNT) with electronically adjusted vanes improves charge pressurization at lower rpm, for reduced turbo lag and exceptional low-end torque	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
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		Electronically controlled ultra-high-pressure Common-rail Direct Injection (CDI) and centrally located 7-nozzle injectors maintained at up to 23,200 psi for improved fuel atomization. Double-pilot injection preheats the combustion chambers with a pre-injection of fuel, for stronger, faster and more complete combustion with reduced noise and particulate emissions	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		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
Fuel requirement Fuel tank capacity	Premium unleaded , 91 pump octane 21.1 gal/80.0 liters (with 2.4-gal/9.0-liter reserve)		Diesel fuel #2 21.1 gal/80.0 liters (with 2.4-gal/9.0-liter reserve)	Premium unleaded , 91 pump octane 21.1 gal/80.0 liters (with 2.4-gal/9.0-liter reserve)		Premium unleaded , 91 pump octane 21.1 gal/80.0 liters (with 2.4-gal/9.0-liter reserve)
DRIVETRAIN						
Transmission type	5-speed automatic		5-speed automatic	7-speed automatic (Sedan with rear-wheel drive) or 5-speed automatic (Wagon, and Sedan with optional 4MATIC™ all-wheel drive)		AMG-enhanced 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 AMG SpeedShift™ programming provides up to 35% faster gear changes, automatically downshifts during braking, prevents unwanted upshifting while cornering, offers one-touch selection of the best gear for maximum acceleration (Shift into Optimum Gear), 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 Standard and Comfort modes, the steering-wheel buttons operate the Touch Shift feature		Not available	Not available		Standard
Drive configuration	Rear-wheel drive or optional 4MATIC all-wheel drive		Rear-wheel drive	Rear-wheel drive (Sedan) or 4MATIC all-wheel drive (standard on Wagon, optional on Sedan)		Rear-wheel drive
Rear axle ratio	3.07:1 (3.27:1 with 4MATIC)		2.65:1	2.65:1 (3.07:1 with 4MATIC)		2.65:1
TRACTION / STABILITY						
Electronic Stability Program (ESP)	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 ²					
4MATIC all-wheel drive with 4-wheel Electronic Traction System (4-ETS)	Optional 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 ²		Not available	Standard on Wagon, optional on Sedan		Not available
PERFORMANCE						
	E 320 SEDAN	E 320 WAGON	E 320 CDI SEDAN	E 500 SEDAN	E 500 4MATIC WAGON	E 55 AMG SPORT SEDAN
Acceleration, 0–60 mph ³	7.1 seconds	7.5 seconds	6.6 seconds	5.9 seconds	5.9 seconds	4.5 seconds
Fuel economy, EPA estimate ⁴ highway estimate ⁵	20 mpg 28 mpg	20 mpg 28 mpg	27 mpg 37 mpg	17 mpg 25 mpg	16 mpg 20 mpg	14 mpg 21 mpg

SUSPENSION / STEERING	E 320 SEDAN E 320 WAGON	E 320 CDI SEDAN ¹	E 500 SEDAN E 500 4MATIC WAGON	E 55 AMG SPORT SEDAN
Suspension	Front: Independent 4-link (rear-wheel-drive models) or double wishbone (4MATIC models). Antidive geometry. Stabilizer bar Rear: Independent 5-arm multilink with aluminum links and wheel-hub carriers, and geometry for antisquat and alignment control. Stabilizer bar			
Steel spring and damping system	Standard E 320 and E 320 CDI Sedans: Front coil springs over gas-pressurized monotube shock absorbers. Separate rear coil springs and gas-pressurized monotube shock absorbers E 320 Wagon: Front coil springs over gas-pressurized monotube shock absorbers. Pneumatic rear springs with automatic level control, and gas-pressurized monotube shock absorbers	Standard Not available	Standard Not available	Standard Not available
Airmatic DC air suspension with Adaptive Damping System (ADS II)	Optional (as part of Appearance Package) Not available Airmatic Dual Control is a semi-active suspension that provides greater ride comfort yet responds to reduce pitch, dive and roll during braking, accelerating and cornering by instantaneously firming up spring rates as driving dynamics change. Electronically controlled pneumatic spring-struts integrate variable-rate shock absorbers and coil springs. 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 control, and automatic speed-sensitive lowering at higher speeds or when in sport mode ⁶			
Steering	Rack-and-pinion with vehicle-speed-sensitive power assist and integrated hydraulic damper. Steering-wheel turns: 2.8 lock-to-lock. Turning circle: 37.4 ft/11.4 m curb-to-curb			
WHEELS / TIRES				
Wheels, aluminum-alloy, standard optional Appearance Package optional AMG Sport Package	Dual-spoke design. 8.0J x 16 5-spoke design. 8.0 x 17 AMG thin-spoke monoblock. 8.0J x 18 front – 9.0J x 18 rear ⁷	Dual-spoke design. 8.0J x 16 Not available Not available	5-twin spoke design. 8.0J x 17 5-spoke design. 8.0 x 17. AMG thin-spoke monoblock. 8.0J x 18 front – 9.0J x 18 rear ⁷	Polished AMG double-spoke design. 8.0J x 18 front – 9.0J x 18 rear ⁷ Not available Not available
Tires, steel-belted radial, standard optional Appearance Package optional AMG Sport Package	225/55 R16 95 H all-season performance 245/45 R17 95 H all-season performance 245/40 ZR18 93Y front – 265/35 ZR18 97Y XL rear, high-performance ⁷	225/55 R16 95 H all-season performance Not available Not available	245/45 R17 95 H all-season performance 245/45 R17 95 H all-season performance 245/40 ZR18 93Y front – 265/35 ZR18 97Y XL rear, high-performance ⁷	245/40 ZR18 93Y front – 265/35 ZR18 97Y XL rear, high-performance ⁷ Not available Not available
BRAKES				
Brake system	4-circuit electrohydraulic	4-circuit electrohydraulic	4-circuit electrohydraulic	AMG-enhanced 4-circuit electrohydraulic
Brake discs, front – rear Brake calipers, front – rear	12.3" ventilated – 11.8" solid (Sedan) or ventilated (Wagon) Single-piston floating (front and rear)	12.3" ventilated – 11.8" solid Single-piston floating (front and rear)	13.0" ventilated – 11.8" ventilated 4-piston fixed – single-piston floating	14.2" perforated and ventilated – 13.0" perforated and ventilated AMG 8-piston fixed – 4-piston fixed
Sensotronic Brake Control	Sensotronic electrohydraulic braking transmits brake pressure individually to each wheel based on driver input and various vehicle parameters. Sensotronic more precisely controls brake pressure at each wheel in normal braking, emergency stopping and ESP activity. ² Automatic brake drying applies the brakes lightly and briefly based on windshield wiper use and driver braking intervals, to reduce moisture on the brake surfaces in wet weather. Predictive brake priming sets the brake pads near to the discs when the driver quickly releases the accelerator, for faster brake response			
Antilock Braking System (ABS) and Brake Assist	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. Sensotronic eliminates the pedal pulsation commonly associated with conventional brake systems and ABS. 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			
EXTERIOR DIMENSIONS	SEDANS	E 320 WAGON	E 500 4MATIC WAGON	
Wheelbase	112.4 in/2,854 mm	112.4 in/2,854 mm	112.4 in/2,854 mm	
Overall length	189.7 in/4,815 mm	191.7 in/4,868 mm	191.7 in/4,868 mm	
Overall height	57.2 in/1,452 mm	58.9 in/1,495 mm, with roof rails	58.9 in/1,495 mm, with roof rails	
Overall width	71.3 in/1,810 mm	71.7 in/1,822 mm	71.7 in/1,822 mm	
Track, front	61.4 in/1,559 mm	61.4 in/1,559 mm	61.4 in/1,559 mm	
Track, rear	61.1 in/1,552 mm	61.1 in/1,552 mm	60.7 in/1,542 mm	
Coefficient of drag	0.27	0.30	0.32	
Curb weight	E 320: 3,691 lb/1,675 kg E 320 CDI: 3,835 lb/1,740 kg E 500: 3,812 lb/1,730 kg E 55 AMG: 4,087 lb/1,855 kg	3,966 lb/1,800 kg	4,231 lb/1,920 kg	
	INTERIOR DIMENSIONS ⁹	SEDANS	WAGONS	
Headroom, front	37.4 in/951 mm	37.9 in/962 mm		
Legroom, front	41.9 in/1,065 mm	41.9 in/1,065 mm		
Shoulder room, front	56.4 in/1,432 mm	56.4 in/1,432 mm		
Headroom, rear	37.7 in/957 mm	38.0 in/964 mm		
Legroom, rear	35.6 in/903 mm	36.0 in/915 mm		
Shoulder room, rear	56.1 in/1,424 mm	56.1 in/1,424 mm		
Cabin capacity	97.2 cu ft/2,752 liters	96.2 cu ft/2,723 liters		
Cargo capacity	15.9 cu ft/450 liters	24.4 cu ft/690 liters, 3rd-row seat lowered 68.9 cu ft/1,950 liters, 2nd and 3rd-row seats lowered		

1 The E 320 CDI Sedan does not meet the emissions requirements of California, Maine, Massachusetts, New York or Vermont, and is not available in these states.
 2 No system, no matter how sophisticated, can repeal the laws of physics or overcome careless driving actions. Best performance in snow is obtained with winter tires. Please always wear your seat belt.
 3 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.
 4 2005 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.
 5 Your actual highway mileage will probably be less than the highway estimate.
 6 Please obey all speed laws.
 7 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.
 8 Braking effectiveness also depends on proper brake system maintenance, and tire and road conditions.
 9 Interior dimensions listed are with optional power sunroof.

Standard equipment

E 320 SEDAN	E 320 CDI SEDAN	E 320 WAGON	E 500 SEDAN	E 500 4MATIC WAGON	E 55 AMG SPORT SEDAN
EXTERIOR APPEARANCE					
■	■	■	■	■	—
Atlas Grey grille with four chrome ribs and chrome surround					
□ ¹	—	□ ¹	□ ¹	□ ¹	■
Black grille with five chrome ribs and chrome surround					
□ ¹	—	□ ¹	□ ¹	—	■
AMG-design front air dam with mesh air intakes and rear apron					
—	—	—	—	—	■
AMG-design side sills. Four polished stainless-steel exhaust tips					

EXTERIOR FEATURES					
□ ¹	□ ¹	□ ¹	□ ¹	□ ¹	■
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					
■	■	■	■	■	■
Electrically heated rear window with auto-shutoff based on time and outside temperature					
■	■	■	■	■	■
Dual aero-blade windshield wipers. Heated windshield washer nozzles					
■	■	■	■	■	■
Infrared rain sensor automatically adjusts wiper speed and intermittent wiper frequency from infinite delay to fast wiping speed based on amount of rainfall measured on windshield					
—	—	■	—	■	—
Intermittent rear-window wiper, with wide-spray washer. When the front wipers are on, shifting to Reverse activates the rear-window wiper					
—	—	■	—	■	—
Protective-coated aluminum roof rails					

EXTERIOR LIGHTING					
■	■	■	■	■	■
Variable-focus halogen headlamps with projector low beams and clear high-impact polycarbonate lenses. Halogen front foglamps, in front apron. Single red rear foglamp, integrated in left taillamp cluster					
■	■	■	■	■	■
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 illuminate low-beam headlamps at reduced intensity (full intensity for optional Bi-Xenon lamps) in daylight, 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					

E 320 SEDAN	E 320 CDI SEDAN	E 320 WAGON	E 500 SEDAN	E 500 4MATIC WAGON	E 55 AMG SPORT SEDAN
LOCKING / SECURITY					
■	■	■	■	■	■
SmartKey uses an electronic code to unlock the steering column and ignition. Removing SmartKey from ignition disables engine computer to help prevent unauthorized starting					
■	■	■	■	■	■
SmartKey remote control integrates: Door lock/unlock buttons. Trunk opener (sedans) or tailgate unlock button (wagons). 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 ² 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: Driver's seat memory settings (all 3 presets, including steering column and outside mirror positions). Various climate control settings. Vehicle configuration settings from multifunction display, including language, lighting modes and radio stations					
■	■	■	■	■	■
Driver-programmable driveway locking can automatically lock all 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					
■	■	■	■	■	■
Automatic antitheft alarm system with towaway protection and remote panic feature					
—	—	■	—	■	—
Power tailgate-closing assist. Interior tailgate release (on tailgate trim) with child-guard lockout					
■	■	—	■	—	■
Emergency trunk release, located inside trunk and illuminated for 60 minutes after trunk lid is closed					
■	■	■	■	■	■
Integrated 3-button garage door control, compatible with HomeLink® components 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
- OPTIONAL
- NOT AVAILABLE

1 Optional as part of an Option Package, or may require additional options. See optional equipment listing on page 37.
2 When equipped with this option.
3 First year's basic Tele Aid 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. Owner must authorize stolen vehicle tracking by providing a personal PIN code and file a police report.
4 Console and cupholder design subject to change during model year 2005 production.

E 320 SEDAN E 320 CDI SEDAN E 320 WAGON	E 500 SEDAN E 500 4MATIC WAGON E 55 AMG SPORT 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 36)
■ ■ ■ ■ ■		Power windows, all with one-touch express-up/down
■ ■ ■ ■ ■		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 selected speed in multifunction display upon engagement
■ ■ ■ ■ ■		Automatic ambient lighting provides gentle illumination while driving in darkness to the console, door handles, all four footwells, and the front and rear seating areas
■ ■ ■ ■ ■		Four reading lamps. Courtesy lamps with programmable fade-out time. Entrance lamps in all four doors. Dual sun visors with illuminated vanity mirrors
■ ■ ■ ■ ■		Auto-dimming rearview mirror
■ ■ ■ ■ ■		Front center console with enclosed storage and dual front cupholders: ⁴ Illuminated glovebox. Pop-open drawer in dash. Storage pocket with motorized wood-trimmed door behind central dash switch panel
■ ■ ■ ■ ■		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 (not included on models with 4MATIC all-wheel drive)
- - - - -	■ ■ ■	Retractable/removable vertical partition net and horizontal luggage cover. Luggage cover electrically lifts up when tailgate is opened (and lowers upon closing), for more convenient loading of cargo area
- - - - -	■ ■ ■	Parcel net and 12-volt power outlet in cargo-area side panel
■ ■ ■ ■ ■		Illuminated, carpeted cargo area (with tie-down hooks on sedans with optional folding rear seats and wagons)
CLIMATE CONTROL		
■ ■ ■ ■ - - -		Dual-zone CFC-free automatic climate control with dual rotary temperature controls, automatic control of blower speed and airflow distribution (with manual override). Dash-top diffuser vent. Rear-cabin air vents at rear of front console
- - - - -	■ ■ ■ ■	4-zone CFC-free automatic climate control with four individual digital temperature/airflow controls, and automatic control of blower speed and airflow distribution (with manual override). Sun sensor. Rear-cabin operating panel with dual temperature controls plus controls for airflow direction. Dash-top diffuser vent. Rear-cabin air vents at rear of front console and adjacent to rear doors. Seat-belt sensors allow climate control to focus first on occupied seats
■ ■ ■ ■ ■		Electrostatic dust and pollen filter. Humidity/dewpoint sensor helps reduce window fogging during humid weather, and helps prevent overdrying of cooled air
■ ■ ■ ■ ■		Tunnel mode offers one-touch closing of all windows, the sunroof ² and cabin air intake by pressing and holding the air-recirculation button. Pressing button again restores previous window and sunroof positions

E 320 SEDAN E 320 CDI SEDAN E 320 WAGON	E 500 SEDAN E 500 4MATIC WAGON E 55 AMG SPORT SEDAN	
SEATING		
■ ■ ■ ■ ■		10-way power front seats, each with 3-position memory (linked to SmartKey user-recognition feature). Driver's adjustable lumbar support. Driver's seat memory includes steering column and outside mirror positions
- - - - -	■ ■ ■	AMG-design sport front seats
□ ¹ □ ¹ □ ¹ □ ¹ □ ¹		Heated front seats
□ ¹ □ ¹ □ ¹ □ ¹ □ ¹		Multicontour front seats: pneumatically adjustable side bolsters, dual lumbar supports and thigh support
□ □ □ □ □		60/40-split folding 2nd-row seatbacks and flip-forward seat cushions. Rear head restraints automatically retract when seatbacks are released (wagons only)
- - - - -	■ ■ ■	Folding, rear-facing 2-passenger 3rd-row seat
UPHOLSTERY / TRIM		
■ ■ ■ ■ - - -		M-B Tex upholstery with leather front seating inserts
□ □ □ □ ■ ■ ■		Premium leather upholstery on all seat surfaces (including head restraints and front seatbacks), door armrests and gathered door trim inserts
- - - - -	■ ■ ■	AMG-design two-tone Nappa leather upholstery featuring soft, sanded nubuck leather for perforated seat center panels and door trim inserts. Alcantara covering pillars, sun visors and ceiling
■ ■ ■ ■ ■		Leather-trimmed steering wheel and shift knob
- - - - -	■ ■ ■	AMG-design leather-trimmed sport steering wheel with raised thumbgrips and fingertip shift controls
- - - - -	■ ■ ■	Leather-trimmed AMG-design shift knob with matte chrome inlay
■ ■ ■ ■ ■	■ ■ ■	Hand-polished Burl Walnut wood trim on dash, console, doors, shift gate and shift knob. Polished chrome outlining for wood trim and switch clusters
□ ¹ □ ¹ □ ¹ □ ¹ □ ¹		Hand-polished Black Birdseye Maple wood trim on dash, console, doors and shift gate. Polished chrome outlining for wood trim and switch clusters
■ ■ ■ ■ ■		Stainless-steel door sill trim (with AMG insignia on E55 AMG)
■ ■ ■ ■ ■		Velour floor carpeting and floor mats (exclusive AMG floor mats on E55 AMG)

E-Class equipment continues.

Standard equipment continued

E 320 SEDAN E 320 CDI SEDAN E 320 WAGON	E 500 SEDAN E 500 4MATIC WAGON	E 55 AMG SPORT SEDAN	
AUDIO / TELEMATICS			
■ ■ ■	■ ■	■	Modular COMAND Cockpit Management and Data system integrates: An AM/FM stereo/weatherband radio, single-CD player, and a large color-LCD screen. Controls for optional in-dash 6-disc CD changer and phone. Ten mode-dependent soft keys alongside screen for easy access to commands and on-screen menus
■ ■ ■	■ ■	—	9-speaker audio system with 4-channel amplifier and automatic speed-sensitive volume adjustment
□¹ □¹ □¹	□¹ □¹	■	harman/kardon® LOGIC7® digital surround sound system: 12 speakers (including dual surround speakers, plus a subwoofer on sedans or a bass enclosure on wagons). 7.1-channel amplifier. Multichannel digital surround-sound technology developed for the professional recording industry, to provide a natural and realistic sound stage for FM radio, playback of audio CDs and optional SIRIUS Satellite Radio.³ Digital Dynamic Volume Control helps to preserve the sound balance under all driving conditions
■ ■ ■	■ ■	■	Fiber-optic network offers precise, high-speed communication among components. Factory preparation for optional CD changer and cellular phone, and SIRIUS Satellite Radio³ prewiring, using fiber-optic network
■ ■ ■	■ ■	■	Tele Aid system uses GPS satellites plus a cellular link to provide 24-hour live assistance for emergency aid (SOS button), information (<i>i</i> -button) or Roadside Assistance (wrench button). Tele Aid basic services include Automatic Collision Notification (engages SOS function if an air bag or ETD deploys), Stolen Vehicle Tracking, Remote Door Unlock service and Dealer Connect⁴
INSTRUMENTATION			
■ ■ ■	■ ■	—	Electronic analog speedometer, tachometer and quartz clock, all with black faces and white markings, chrome rings, and glacier blue backlighting
— — —	— —	■	AMG-design electronic analog speedometer, tachometer and quartz clock, all with ivory-color faces, chrome rings and soft white nighttime backlighting. Matte chrome instrument cluster surround
■ ■ ■	■ ■	■	Electronic bar-graph fuel and coolant temperature gauges
■ ■ ■	■ ■	■	Digital display for odometer and Touch Shift gear/mode selection
■ ■ ■	■ ■	■	Multifunction display in speedometer face can be scrolled via steering-wheel controls to operate and display various menus and vehicle features: Resettable trip meter and outside temperature indicator. Digital speedometer, Maintenance System (see below), tire pressure² and engine oil-level check. Radio station, CD player/CD changer.² Navigation system route guidance.² Distronic adaptive cruise control settings.² Vehicle reminder and malfunction messages. Driver-programmable settings for instrument cluster, clock, lighting, vehicle and convenience features. Trip computer (elapsed time, fuel consumption, distance to empty). Mobile phone book²
■ ■ ■	■ ■	■	Mercedes-Benz Maintenance System Plus displays distance remaining to next basic maintenance service, indicates type of service due, and provides automatic reminder feature when service interval draws near. System also monitors brake-pad wear
■ ■ ■	■ ■	■	Audible reminders and messages for open door or sunroof²; exterior lamp failure; low fuel, engine oil, coolant and washer fluid; and to release parking brake, switch off headlights and remove ignition key

- STANDARD
- OPTIONAL
- NOT AVAILABLE

E 320 SEDAN E 320 CDI SEDAN E 320 WAGON	E 500 SEDAN E 500 4MATIC WAGON	E 55 AMG SPORT SEDAN	
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 2nd-row passengers are each provided with a side-impact air bag and 3-point seat belt with ETD and belt force limiter. Center 2nd-row passenger and 3rd-row passengers (wagons) are each 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-door windows on the affected side of the car. 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 severity⁵
■ ■ ■	■ ■	■	Occupant Classification System (OCS) automatically turns the front passenger's front air bag on or off based on the weight category determined by weight sensor readings from the front passenger seat⁵
■ ■ ■	■ ■	■	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
■ ■ ■	■ ■	■	Automatic Collision Notification engages Tele Aid SOS function if an air bag or ETD deploys⁴
■ ■ ■	■ ■	■	Universal LATCH system (Lower Anchors and Tethers for Children) at outboard rear seating positions. Selectable passenger seat-belt retractors help secure child seats⁵
■ ■ ■	■ ■	■	Front seat belts include height-adjustable shoulder belts and lower points attached to seat frames. Outboard 2nd-row shoulder belts are automatically height-adjusting (sedans) or height-adjustable (wagons)
■ ■ ■	■ ■	■	Front head restraints power-adjust for height, manually adjust fore-aft, and automatically height-adjust as seat is moved fore-aft
■ ■ ■	■ ■	■	Three individually retractable rear head restraints. All three head restraints can also be remotely retracted by the driver for improved rearward vision when the rear seats are unoccupied

1 Optional as part of an Option Package, or may require additional options. See optional equipment listing at right.
2 When equipped with this option.
3 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.
4 First year's basic Tele Aid 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. Owner must authorize stolen vehicle tracking by providing a personal PIN code and file a police report.
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. **OCS** IS DESIGNED TO TURN THE FRONT PASSENGER'S FRONT AIR BAG OFF WHEN THE SYSTEM SENSES THE WEIGHT OF A TYPICAL CHILD 12 MONTHS OLD OR LESS, PLUS THE WEIGHT OF A STANDARD APPROPRIATE CHILD RESTRAINT. **SEE OPERATOR'S MANUAL** FOR IMPORTANT ADDITIONAL INFORMATION ON THESE SYSTEMS, AND FOR FURTHER INFORMATION REGARDING THE TRANSPORTATION OF CHILDREN HEAVIER THAN A TYPICAL 12-MONTH-OLD.
6 Not available with Heating Package.
7 DVD-ROM maps do not cover all areas nor all routes within an area. One U.S./Canada DVD-ROM is included with vehicle.
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 E 320 CDI. E 320 and E 500 *designo* editions require heated front seats, Active Ventilated front seats or Premium Package.

Optional equipment

E 320 SEDAN E 320 CDI SEDAN E 320 WAGON	E 500 SEDAN E 500 4MATIC WAGON	E 55 AMG SPORT SEDAN	
INDIVIDUAL OPTIONS			
☐	☐	☒	4MATIC™ all-wheel drive (includes 5-speed automatic transmission)
☐	☐	☐	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 the driver's door or the SmartKey, and closes trunk lid via button on driver's door or the underside of the open trunk lid
☐	☐	☐	Power tailgate fully opens at the touch of a button on the driver's door or the SmartKey, and closes via button on driver's door or the underside of the open tailgate. Tailgate can be stopped in any position, can be programmed to open no higher than the vehicle roof for operation in low-clearance areas, and features an obstruction sensor
☐	☐	☐	Panorama roof, including full tinted glass roof from windshield to rear window, power tilt/sliding panel with one-touch express-open, and dual power sunshades (not available with Sunroof Package)
☐	☐	☐	Power rear-window sunshade, with one-touch express-up/down
☐	☐	☐	Manual roller-type sunshades for windows in rear doors
☐	☐	☒	Heated front seats
☐	☐	☐	Active Ventilated front seats, with heating feature (requires premium leather on E 320 and E 320 CDI models)
☐	☐	☐	Drive-Dynamic front seats (including features of dynamic multicontour seats)
☐	☒	☒	Premium leather upholstery
☐	☐	☐	Leather and wood trimmed steering wheel (also included with E 320, E 320 CDI and E 500 <i>designo</i> editions)
☒	☒	☒	Burl Walnut wood interior trim
☐	☐	☐	Integrated single-feed in-dash 6-disc CD changer, concealed behind motorized wood-trimmed door
☐	☐	☐	SIRIUS Satellite Radio equipment ³
☐	☐	☐	COMAND-DVD in-dash GPS navigation system, with map database for the contiguous U.S., Hawaii and Canada on a single DVD. ⁷ DVD-ROM drive concealed in trunk (sedans) or cargo area (wagons)
☐	☐	☐	Hands-Free Communication System. (Requires accessory telephone handset and cradle, sold separately at dealership. A selection of handsets is available, depending on cellular carrier)
☐	☐	☐	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. A selection of handsets is available, depending on cellular carrier)
☐	☐	☐	Parktronic audio-visual parking assistance system
☐	☐	☐	Onboard tire-pressure monitoring system (allows driver to check the inflation pressure of all four mounted tires via the multifunction display)
☐	☐	☐	Metallic paint (no charge on E 500 models and E 55 AMG)

E 320 SEDAN E 320 CDI SEDAN E 320 WAGON	E 500 SEDAN E 500 4MATIC WAGON	E 55 AMG SPORT SEDAN	
OPTION PACKAGES			
☐	☐	☐	AMG Sport Package (not available with 4MATIC all-wheel drive or Appearance Package): AMG-design front air dam and rear apron (standard on E 55 AMG). Dual polished chrome exhaust tips. Four staggered-width 18" AMG ultrathin-spoke monoblock wheels with high-performance tires ⁸
☐	☐	☐	Appearance Package (not available with AMG Sport Package): Four 17" 5-spoke alloy wheels with 245/45HR17 all-season performance tires. Sculpted lower bodywork. Black grille with five chrome ribs and chrome surround. Blue-tinted glass. Lighting Package (see below). All-LED brake lamps. Matte chrome instrument-cluster bezel, gearshift surround and shift-knob inlay. Black Birdseye Maple or Burl Walnut wood interior trim. E 320 models also add Airmatic Dual Control suspension with ADS II
☐	☐	☐	Sunroof Package (not available with Panorama roof): Power tilt/sliding tinted glass sunroof with one-touch open/close and memory (standard on E 55 AMG). Power rear-window sunshade (sedans). Manual roller-type sunshades for rear side door windows
☐	☐	☐	Lighting Package: Bi-Xenon low-beam and high-beam headlamps with active curve illumination system. Heated headlamp washers
☐	☐	☐	Heating Package (not available on <i>designo</i> editions or with wood and leather trimmed steering wheel): Heated front seats (standard on E 55 AMG). Heated steering wheel
☐	☐	☐	Rear Seat Package: 60/40-split folding rear seatbacks and flip-forward seat cushions (standard on wagons). Center-armrest pass-through with ski sack
☐	☐	☐	Entertainment Package: harman/kardon LOGIC7 surround sound system (see Audio Systems, at left; standard on E 55 AMG). Integrated single-feed in-dash 6-disc CD changer
☐	☐	☐	Premium Package: All items in Sunroof Package and Entertainment Package. Drive-Dynamic front seats with dynamic multicontour seatbacks. COMAND-DVD navigation system ⁷

<i>designo</i> EDITIONS			
☐	☐	☐	Silver Edition: <i>designo</i> Silver metallic paint. Stone interior with <i>designo</i> Stone Nappa leather and Brown Poplar wood trim. Wood and leather trimmed steering wheel. Stone <i>designo</i> floor mats with leather trim
☐	☐	☐	Espresso Edition: <i>designo</i> Mocha Black metallic paint. Charcoal interior with <i>designo</i> Sand Nappa leather and Brown Poplar wood trim. Wood and leather trimmed steering wheel (except E 55 AMG). Charcoal <i>designo</i> floor mats with leather trim
☐	☐	☐	Graphite Edition: <i>designo</i> Graphite metallic paint. Charcoal interior with <i>designo</i> Graphite Nappa leather and Brown Poplar wood trim. Wood and leather trimmed steering wheel (except E 55 AMG). Charcoal <i>designo</i> floor mats with leather trim

Questions or comments on the Presentation Guides for 2005?

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