

2006
Mercedes-Benz
E320 CDI

Power. Reinvented.



Mercedes-Benz



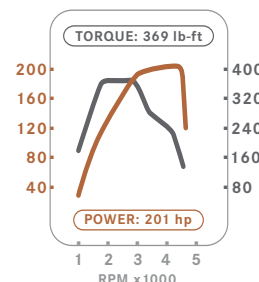
- 3.2-liter CDI turbocharged inline-6
- 201 hp @ 4,200 rpm
- 369 lb-ft torque @ 1,800–2,600 rpm
- 0–60 in under 7 seconds¹
- 27 mpg city²
- 37 mpg highway³

Thrust without thirst.

Go ahead. Press down on the accelerator of the E320 CDI. But be prepared to smile. It's bound to happen the first time you experience the compelling strength of its advanced CDI (Common-rail Direct Injection) turbodiesel engine. Churning out a volcanic 369 lb-ft of peak torque starting at just 1,800 rpm, it rockets the E320 CDI from zero to 60 mph in 6.6 pulse-quicken seconds. This silky-smooth 3.2-liter inline-6 delivers exceptional low- and mid-range response whether you're in town or out on the highway. And the E320 CDI matches its sparkling performance with equally outstanding economy. Achieving an EPA estimate of 27 mpg, and 37 mpg on the highway, it's the most fuel-efficient luxury sedan you can buy.⁴

To excel in both performance and economy, the E320 CDI uses a state-of-the-art combination of high-pressure direct fuel injection and an advanced turbocharger that electronically adjusts the pitch of its guide vanes to minimize lag and optimize control of boost pressure at all times. It's a formula that helps maximize the engine's efficiency and your driving fun.

¹ 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. ² 2006 EPA estimated fuel economy. Compare the estimated mpg to the estimated mpg of other vehicles. You may get different mileage depending on how fast you drive, weather conditions and trip length. ³ Your actual highway mileage will probably be less than the highway estimate. ⁴ Comparison based on 2005 EPA estimates for sedans over \$40,000. 2006 competitor information not available at time of printing.



I can't believe a diesel can be this quick.



■ 37 mpg highway¹
■ Up to 780 miles per tank²

■ 55,000 diesel stations
across the country

Convenience

It can go farther than you can.

Fancy yourself an endurance expert? Then prepare to meet your match. The E320 CDI can outlast even the hardest long-distance devotee, cruising up to 780 highway miles on a single tank of fuel. It's the kind of endearing character trait that means you'll spend more time savoring the E-Class driving experience and less stopped at a service station. Even those infrequent occasions when the E320 CDI does require refueling won't be a cause for concern, because diesel is available at approximately 55,000 fuel outlets—nearly one of every three gas stations across the country.

And with the standard Tele Aid system in every E320 CDI, it's even easy to find fuel when your travels take you into unfamiliar territory. Just press the *i*-button and you'll be connected to a live representative who knows which gas stations nationwide offer diesel fuel, and who can help you locate one near your present location, 24 hours a day.³

¹ Your actual highway mileage will probably be less than the highway estimate. ² Maximum driving range based on highway fuel-economy estimate and 21.1-gallon fuel-tank capacity. ³ First year's basic Tele Aid service provided at no additional cost with subscription and includes 30 minutes airtime (including required acquaintance call). Subscription is required for service to be active. Tele Aid operates only where cellular and Global Positioning System coverage are available.

Specifications		
ENGINE / TRANSMISSION	E320 CDI SEDAN	
Engine	3,222-cc DOHC 24-valve inline-6 Cast-iron cylinder block. High-strength aluminum-alloy head. Reinforced engine block, oil pan structure, pistons, connecting rods and crankshaft	
Output	Net power: 201 hp @ 4,200 rpm Net torque: 369 lb-ft @ 1,800–2,600 rpm	Compression ratio: 18.0:1 Maximum engine speed: 4,600 rpm
Fuel and ignition system	Electronically controlled ultra-high-pressure Common-rail Direct Injection (CDI) and compression ignition. Fuel supply to individual, 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	
Fuel requirement	Diesel fuel #2	Fuel tank capacity: 21.1 gal/80.0 liters, with a reserve of 2.4 gal/9.0 liters
Induction	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	
Transmission type	Driver-adaptive electronic 5-speed automatic 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. 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. Instrument-cluster readout of selected gear range and mode	
EPA estimated fuel economy	EPA estimate: 27 mpg ¹ Highway estimate: 37 mpg ² Maximum driving range: 780 miles (fuel capacity x highway estimate)	

DRIVETRAIN		
Drive configuration	Rear-wheel drive	Rear axle ratio: 2.65:1
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 ³	

CHASSIS		
Suspension	Front: Independent 4-link with antidive geometry. Coil springs over gas-pressurized monotube shock absorbers. Stabilizer bar	Rear: Independent 5-arm multilink with aluminum links and wheel-hub carriers, and geometry for antisquat and alignment control. Separate coil springs and gas-pressurized monotube shock absorbers. Stabilizer bar
Steering	Rack-and-pinion with speed-sensitive power assist and integral hydraulic damper Steering-wheel turns: 2.8 lock-to-lock Turning circle: 37.4 ft/ 11.4 m curb-to-curb	
Wheels and tires	Wheels: Dual-spoke design. 8.0Jx16	Tires: 225/55R16 95H performance
4-wheel disc brakes	4-circuit electrohydraulic power-assisted. 12.3" ventilated front and 11.8" solid rear discs. Single-piston floating calipers, front and rear	
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. ³ Soft Stop precisely modulates brake pressure as the car approaches a stop during normal braking. 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)	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	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 ⁴	

DIMENSIONS	Exterior		Interior ⁵	
Wheelbase	112.4 in/2,854 mm		Headroom, front	39.1 in/993 mm
Overall length	189.7 in/4,815 mm		rear	37.8 in/961 mm
Overall height	57.0 in/1,449 mm		Legroom, front	41.9 in/1,065 mm
Overall width	71.7 in/1,822 mm		rear	35.6 in/903 mm
Track, front	61.4 in/1,559 mm		Shoulder room, front	56.4 in/1,432 mm
rear	61.1 in/1,552 mm		rear	56.1 in/1,424 mm
Coefficient of drag	0.27		Cabin capacity	97.2 cu ft/2,752 liters
Curb weight	3,835 lb/1,740 kg		Cargo capacity	15.9 cu ft/450 liters

The E320 CDI Sedan does not meet the emissions requirements of California, Maine, Massachusetts, New York or Vermont, and is not available in these states.

- 1 2006 EPA estimated fuel economy. Compare the estimated mpg to the estimated mpg of other vehicles. You may get different mileage depending on how fast you drive, weather conditions and trip length.
- 2 Your actual highway mileage will probably be less than the highway estimate.
- 3 No system, no matter how sophisticated, can repeal the laws of physics or overcome careless driving actions. Please always wear your seat belt.
- 4 Braking effectiveness also depends on proper brake system maintenance, and tire and road conditions.
- 5 Interior dimensions listed are with optional power sunroof.

6 When equipped with this option.

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

8 First year's basic Tele Aid service provided at no additional cost with subscription and includes 30 minutes airtime (including required acquaintance call). Subscription is required for service to be active. System operates only where cellular and GPS coverage are available. Owner must authorize stolen vehicle tracking and file a police report.

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

10 Also available as part of an Option Package.

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

12 E320 CDI *designo* editions require heated front seats or Premium Package.

Equipment		
EXTERIOR FEATURES	E320 CDI SEDAN	
	Variable-focus halogen headlamps with projector low beams and clear high-impact polycarbonate lenses. Halogen front foglamps. Single red rear foglamp	
	Driver-selectable light-sensing headlamps can be set to automatically illuminate in darkness, or when entering dark tunnels or parking garages	
	Driver-programmable Daytime Running Lamps, with auto-on override in darkness	
	Dual heated power mirrors, auto-dimming left-side and parking-assist right-side	
	Electrically heated rear window with auto-shutoff based on time/outside temperature	
	Dual aero-blade windshield wipers. Infrared rain sensor automatically adjusts wiper speed based on rainfall measured on windshield. Heated windshield washer nozzles	

LOCKING AND SECURITY		
	SmartKey remote central locking system uses infrared and radio-frequency signals for improved range, and rolling-code signal for protection from transmitter cloning	
	SmartKey uses an electronic code to unlock steering column and ignition. Removing key from ignition disables engine computer to help prevent unauthorized starting	
	SmartKey integrates remote door lock/unlock (driver's door and fuel filler only, or all doors plus trunk and fuel filler), trunk opener, panic alarm and removable valet key	
	SmartKey offers infrared-remote opening/closing of windows and sunroof ⁶	
	Driveaway 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. Locator lighting uses the car's lights to help light a return path when the car is remote-unlocked in darkness. Remote unlocking activates illuminated entry system	
	Automatic antitheft alarm system with towaway protection, remote panic feature, plus stolen vehicle tracking via Tele Aid ⁷	
	Emergency trunk release (inside trunk), illuminated for 60 minutes after trunk is closed	
	3-button garage door control, compatible with HomeLink® and some other systems	

INTERIOR FEATURES		
	Multifunction steering wheel, with controls for basic functions of audio system and phone, ⁸ plus operation of multifunction display (see Instrumentation, below)	
	Power windows, all with one-touch express-up/down	
	4-way (tilt/telescoping) power steering column, linked to driver's seat memory. Driver-programmable easy-exit feature for driver's seat and/or steering column	
	Electronic cruise control, with digital speed readout upon engagement	
	Auto-dimming rearview mirror	
	Adjustable-intensity automatic environmental comfort lighting of center console, door handles, all four footwells, and front and rear seating areas	
	Wood-trimmed front center console with enclosed storage and dual front cupholders. 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	

CLIMATE CONTROL		
	Dual-zone CFC-free automatic climate control with dual 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	
	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-button closing of all windows, sunroof ⁹ and cabin air intake	

SEATING AND TRIM		
	10-way power front seats, each with 3-position memory. Driver's adjustable lumbar support. Driver's seat memory includes steering column and outside mirror positions	
	M-B Tex upholstery with leather front seating inserts	
	Hand-polished Burl Walnut trim on dash, console, doors, shift gate, shift knob and center console. Polished chrome outlining for wood trim and switch clusters	
	Leather-trimmed steering wheel and shift knob. Stainless-steel door sill trim. Velour floor carpeting and floor mats	

INSTRUMENTATION		
	Electronic analog speedometer, tachometer and quartz clock, all with chrome rings and glacier blue backlighting. Electronic bar-graph fuel and coolant temperature gauges. Digital display for odometer and Touch Shift gear/mode selection	
	Multifunction display and steering-wheel controls allow driver to operate various menus, vehicle features, reminder/malfunction messages, and programmable settings	
	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	

Technical Data		
AUDIO/COMMUNICATIONS		
	COMAND Cockpit Management and Data system integrates AM/FM stereo/weather-band radio, single-CD player, a large color-LCD screen and optional 6-disc CD changer and SIRIUS Satellite Radio ⁷	
	9-speaker audio system. 4-channel amplifier. Automatic speed-sensitive volume	
	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). Automatic Collision Notification engages SOS function if an air bag or Emergency Tensioning Device (ETD) deploys. Service also includes stolen vehicle tracking and remote keyless unlocking service ⁸	

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. ⁹ Outboard rear passengers are each provided with a side-impact air bag and 3-point seat belt with ETD and belt force limiter. Center rear passenger is provided with a 3-point seat belt	
	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 seat ⁹	
	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	
	Head Protection Curtains: In a side impact exceeding a preset threshold, a multi-chamber air bag deploys to cover the front and rear side 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	
	Universal LATCH system (Lower Anchors and Tethers for Children) at outboard rear seating positions. Selectable passenger seat-belt retractors help secure child seats ⁹	
	Front head restraints power-adjust for height, manually adjust fore-aft, and auto-height-adjust as seat is moved fore-aft. Three driver-retractable rear head restraints	

OPTIONS AND PACKAGES			
☐	Keyless Go vehicle entry and starting system		
☐	Electronic trunk closer (via controls on driver's door and inside trunk lid)		
☐	Heated front seats		
☐	Premium leather upholstery		
☐	Leather and wood trimmed steering wheel (also included with <i>designo</i> editions)		
☐	Integrated single-feed in-dash 6-disc CD changer, concealed behind door in dash		
☐	SIRIUS Satellite Radio (includes 6 months' service) ⁷		
☐	Hands-Free Communications System with Voice Control (handset and cradle sold separately)		
☐	Parktronic parking assistance system		
☐	Metallic paint		
☐	60/40-split folding rear seatbacks		
☐	Lighting Package: Bi-Xenon low-beam and high-beam headlamps with active curve illumination system. Heated headlamp washers		
☐	Premium Package: Glass sunroof, power rear-window sunshade, heated front seats, harman/kardon surround sound system, in-dash 6-CD changer and DVD navigation system ¹¹		
☐	Premium Package with Panoramic Sunroof: Includes contents of Premium Package with Panoramic Sunroof, replacing Glass sunroof		
☐	Sunroof Package: Glass sunroof, Power rear-window sunshade		
☐	<i>designo</i> editions: Special <i>designo</i> metallic paint, Nappa leather upholstery and wood trim. Wood and leather trimmed steering wheel. <i>designo</i> floor mats with leather trim		
	Silver Edition	Espresso Edition	Graphite Edition
Paint color:	<i>designo</i> Silver	<i>designo</i> Mocha Black	<i>designo</i> Graphite
Interior color:	Stone	Charcoal	Charcoal
Upholstery:	<i>designo</i> Stone	<i>designo</i> Sand	<i>designo</i> Graphite
Wood trim:	Brown Poplar	Brown Poplar	Brown Poplar

STANDARD

OPTIONAL