

BMW 2005
7 Series Sedan



The Ultimate
Driving Machine®

745i
745Li
760i
760Li







7th Heaven.



Life can lead us in unexpected directions.
The trick is to enjoy the ride.

Could the 745i possibly go to greater lengths to please you?
Yes, with a long-wheelbase version of the 7 Series.





The 7 Series isn't the head of the class.
It's a whole class unto itself.



Equipment.



■ **Xenon low- and high-beam headlights** illuminate the road ahead and to the side with brilliant clarity. These headlights also have an auto-leveling feature. **BMW Adaptive Headlights** provide road illumination around corners by directing the headlights into and through the bend as soon as the vehicle begins cornering.



■ Smoked glass **rear trim strip**, positioned on the rear deck lid directly above the license plate panel, accentuates the elegant contours of the rear section.



■ **Halogen foglights** are cleanly integrated in the front air dam. Ellipsoid free-form technology ensures an even spread of light onto the road for extra safety in bad weather and poor visibility.



■ **Auto-dimming, power side-view mirrors** are tinted blue, with body-color mirror housing. The mirrors automatically heat up when the defroster is turned on.



■ **Door handles** are finished in body color. Unlocking the car by using the remote control automatically turns on a door-mounted light that illuminates the ground in front of the door.



■ Infinitely **variable stepless door brakes** hold the doors open in any position, even on hills.
 ■/□ **Power soft-close feature** automatically closes all four doors and trunk lid. Simply close the door (or trunk lid) gently, and the electric mechanism then draws it fully in. (std. on 760Li, opt. on 745i/745Li and 760i)



■ **Windshield wiper system** includes two washer nozzles integrated into each wiper arm, that squirt heated windshield washer fluid directly in front of the wiper blades. A rain-sensing feature regulates the sweep timing, and a heated wiper parking position varies to reduce wiper-blade wear.



■ **Retractable high-intensity headlight washers** help keep lights clean of ice, mud, road salt and other coatings, for maximum road lighting and enhanced driving safety.

Equipment.



■ **Rain sensor** uses infrared light to measure the amount of rain. When the wipers are in the “intermittent” mode, the rain sensor automatically adjusts the windshield wiping interval as needed.



■ **Park Distance Control** uses ultrasonic sensors in both bumpers to help you judge the distance to cars and unseen objects when parking. The beeping becomes faster as your bumper approaches the object, turning into a constant tone when it's less than 12" away.



■ **18 x 8.0 Multi-Spoke (Styling 94) cast alloy wheels and 245/50R-18 all-season tires.** (std. on 745i/745Li; not available on 760i and 760Li)



□ **19" Star Spoke (Styling 95) cast alloy wheels and performance tires.**¹ Front: 19 x 9.0 wheels, 245/45R-19 tires. rear: 19 x 10.0 wheels, 275/40R-19 tires. (opt. on 745i/745Li; not available on 760i and 760Li)



□ **19" V-Spoke (Styling 126) cast alloy wheels and performance tires.**¹ Front: 19 x 9.0 wheels, 245/45R-19 tires; rear: 19 x 10.0 wheels, 275/40R-19 tires. (exclusive with 745i and 745Li Sport Packages; not available on 760i and 760Li)



■ **20" Double Spoke (Styling 149) cast alloy wheels and performance tires.**¹ Front: 20 x 9.0 wheels, 245/40R-20 tires; rear: 20 x 10.0 wheels, 275/35R-20 tires. (exclusive with 760i)



■ **19" Star Spoke (Styling 89) cast alloy wheels and performance tires.**¹ Front: 19 x 9.0 wheels, 245/45R-19 tires; rear: 19 x 10.0 wheels, 275/40R-19 tires. (std. on 760Li; not available on 745i/745Li and 760i)



□ **18 x 8.0 Exclusive Spoke (Styling 91) cast alloy wheels and 245/50R-18 all-season tires.** (no-cost opt. on 760Li; not available on 745i/745Li and 760i)

■ Standard □ Optional (or included in a package)

¹Due to low-profile tires, please note: wheels, tires and suspension parts are more susceptible to road hazard and consequential damages. Performance tires not recommended for driving in snow and ice conditions.

Standard equipment | Optional equipment

Performance and efficiency	745i	745Li	760i	760Li	Exterior and aerodynamics	745i	745Li	760i	760Li
6.0-liter DOHC (4-cam) 48-valve V-12 engine with direct fuel injection and Valvetronic			●	●	18 x 8.0 Multi-Spoke (Styling 94) alloy wheels with 245/50R-18 all season tires	●	●		
4.4-liter DOHC (4-cam) 32-valve V-8 engine with Valvetronic	●	●			19 x 9.0 front/19 x 10.0 rear Star Spoke (Styling 95) alloy wheels with 245/45R-19 front / 275/40R-19 rear performance tires ¹	○	○		
Steplessly variable intake manifold	●	●			19 x 9.0 front/19 x 10.0 rear V-Spoke (Styling 126) alloy wheels with 245/45R-19 front / 275/40R-19 rear performance tires ¹	□	□		
Double-VANOS steplessly variable valve timing	●	●	●	●	20 x 9.0 front/20 x 10.0 rear Double Spoke (Styling 149) alloy wheels with 245/40R-20 front / 275/35R-20 rear performance tires ¹			●	
Aluminum block and cylinder heads	●	●	●	●	19 x 9.0 front/19 x 10.0 rear Star Spoke (Styling 89) cast alloy wheels with 245/45R-19 front / 275/40R-19 rear performance tires ¹				●
Electronically controlled engine cooling	●	●	●	●	18 x 8.0 Exclusive Spoke (Styling 91) alloy wheels with 245/50R-18 all-season tires				NC
Digital Motor Electronics engine-management system with adaptive knock control	●	●	●	●	Body-color bumpers with hydraulic energy absorbers and (front only) compressible elements	●	●	●	●
6-speed STEPTRONIC automatic transmission with Adaptive Transmission Control (ATC)	●	●	●	●	High-Gloss black shadowline exterior trim	□	□	●	
Electronic gear selector	●	●	●	●	Aluminum hood and front fenders	●	●	●	●
Liquid-cooled alternator	●	●	●	●	Xenon low- and high-beam headlights in outer headlights and dynamic auto-leveling	●	●	●	●
Handling, ride and braking					Adaptive Headlights	●	●	●	●
Aluminum double-pivot strut-type front suspension	●	●	●	●	Halogen ellipsoid front foglights	●	●	●	●
Aluminum 4-link integral rear suspension	●	●	●	●	Windshield wiping sweep regulated for optimum coverage ²	●	●	●	●
Aluminum front and rear subframes	●	●	●	●	Variable parking position to reduce wiper blade wear	●	●	●	●
Active Roll Stabilization (ARS)	●	●	●	●	Articulated passenger-side wiper arm	●	●	●	●
Twin-tube gas-pressure shock absorbers	●	●	●	●	Single-wipe control	●	●	●	●
Self-leveling rear suspension with air springs	▲	▲	●	●	Washer jets in wiper arms, heated fluid supply	●	●	●	●
Sport suspension	□	□			Heated wiper parking area	●	●	●	●
Electronic Damping Control – includes “Sport” setting	▲	▲	●	●	High-pressure headlight cleaning system	●	●	●	●
Vehicle-speed-sensitive variable-assist, variable-ratio rack-and-pinion power steering	●	●	●	●	Choice of standard or metallic paints	●	●	●	●
4-wheel ventilated disc brakes with electronic brake proportioning	●	●	●	●	Smooth underbody	●	●	●	●
Electromechanical parking brake	●	●	●	●					
Automatic Parking Brake	●	●	●	●					
Dynamic Stability Control (DSC)	●	●	●	●					
Anti-lock Braking System (ABS)	●	●	●	●					
Dynamic Traction Control	●	●	●	●					
Dynamic Brake Control	●	●	●	●					

● Standard

○ Optional

NC – Optional; no extra cost

NA – Not available

▲ Adaptive Ride Package

□ Sport Package

◇ Luxury Seating Package

△ Convenience Package

■ Cold Weather Package

◆ Premium Sound Package

★ Rear Entertainment Package

¹ Due to low-profile tires, please note: wheels, tires and suspension parts are more susceptible to road hazard and consequential damages. Performance tires not recommended for driving in snow and ice conditions.

² Driver's side only.

Standard equipment | Optional equipment

Audio/visual	745i	745Li	760i	760Li
AM/FM stereo radio/CD audio system with 10 speakers, Radio Data System (RDS), in-dash single-disc CD player and FM diversity antenna system; includes 2 subwoofers	●	●		
Logic7 audio system with 13 speakers, Digital Sound Processing and 6-disc in-dash CD changer; includes 2 subwoofers and all features of standard audio system	◆	◆	●	●
Rear Entertainment Package: Includes 6.5", 16:9-format Liquid Crystal Display (LCD) monitor, trunk-mounted 6-disc CD/DVD changer, headphones, rear iDrive controller	★	★	★	★

Instrumentation and controls

Electronic analog speedometer and tachometer	●	●	●	●
LCD main and trip odometers	●	●	●	●
Condition-based Service display ³	●	●	●	●
Expanded Check Control vehicle monitor system	●	●	●	●
iDrive concept	●	●	●	●
Start/stop button	●	●	●	●
Electronic control stalks	●	●	●	●
LCD displays and warning indicators in dial faces	●	●	●	●
Leather power tilt/telescopic multi-function steering wheel with audio and phone controls, one programmable control; auto tilt-away for entry and exit	●	●		●
3-spoke sport steering wheel with multi-function controls	□	□	●	
Programmable cruise control	●	●	●	●
Active cruise control	○	○	○	○
On-board computer	●	●	●	●
Navigation system	●	●	●	●
BMW Cellular Phone System, portable with digital-analog operation, Telecommander keypad, Voice Activation system, and BMW Assist	●	●	●	●
Brake Wear Display	●	●	●	●

Interior seating and trim	745i	745Li	760i	760Li
Nasca leather upholstery ⁴	●	●	●	●
Pearl leather upholstery ⁴	□	□	NC	
Extended leather trim on instrument panel and rear sides of front-seat backrests				●
Power 10-way driver's/8-way front passenger's seats with 4-way lumbar support; includes automatic head-restraint height adjustment	●			
Power front sport seats (12-way driver's, 10-way passenger's) with adjustable thigh support	□	□	NC	NA
Memory system for driver's seat, steering wheel, and outside mirrors (2 positions)	●	●	●	●
16-way power front Comfort seats with 4-way lumbar support; includes articulated upper backrest, adjustable backrest width, adjustable thigh support, passenger's-seat memory, active head restraints with adjustable side support	○/◇	●	●	●
10-way power rear Comfort seats with 4-way lumbar support; includes articulated upper backrest, automatic head-restraint height adjustment, automatic pretensioners		○		●
Active front driver's seat with gentle massage action	◇	◇	●	●
Ventilated front seats	◇	◇	●	●
Heated front seats with fast heating and balance control	○/■/◇	○/■/◇	●	●
Heated rear seats	■/◇	■/◇	●	●
Climate-controlled front console compartment with coinholder, trunk-release lockout, illumination and phone handset	●	●	●	●
Alcantara headliner and sun visors				●

³ Additional functions for this system accessible through iDrive system.

⁴ See Page 68 for detailed information on available interior trims.

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Standard equipment | Optional equipment

Safety and security	745i	745Li	760i	760Li	Comfort and convenience (cont.)	745i	745Li	760i	760Li
Intelligent Safety and Information System (ISIS) for deployment of safety systems	●	●	●	●	Continuously variable stepless door brakes	●	●	●	●
Dual front-impact airbag Supplementary Restraint System (SRS) with dual-threshold deployment, 2-stage Smart Airbags	●	●	●	●	Power windows with key-off operation, "one-touch" open/close and anti-trapping feature	●	●	●	●
Front safety belts with automatic pretensioners and force limiters	●	●	●	●	Automatic front climate control with full separate left/right controls, solar sensor, automatic recirculation, heat-at-rest feature, left/right temperature-controlled rear outlets, auto ventilation	●	●	●	●
Automatic pretensioners in safety belts at rear outboard seating positions		○ ⁵		●	Rear left/right climate control and coolbox in center armrest				○
Automatic-locking retractors (ALR) on all passenger safety belts (for installation of child restraint seats)	●	●	●	●	Activated-charcoal micro-filter ventilation	●	●	●	●
Front-seat Head Protection System (HPS)	●	●	●	●	Power 2-way moonroof with key-off and "one-touch" operation, conceal panel and wind deflector	●	●	●	●
Front-seat side-impact airbags	●	●	●	●	Window and moonroof opening possible from remote control	●	●	●	●
Active Knee Protection	●	●	●	●	Dual power/heated automatic-dimming outside mirrors	●	●	●	●
Rear-seat Head Protection System	●	●	●	●	Automatic tilt-down of right outside mirror for visibility of curb when backing up	●	●	●	●
Rear-seat side-impact airbags	○	○	○	○	BMW Universal Transceiver (garage-door opener) integrated into rear-view mirror housing	●	●	●	●
Active front head restraints ⁶	○/◇	●	●	●	Enhanced interior lighting system including front and rear left/right reading lights	●	●	●	●
Adaptive Brake Lights	●	●	●	●	Footwell lighting front and rear	●	●	●	●
Battery Safety Terminal	●	●	●	●	Exit/entry lighting on interior door panels	●	●	●	●
Automatic fuel-pump shutoff upon severe accident impact	●	●	●	●	BMW Ambiance Lighting front, rear and door panels	●	●	●	●
Central locking system with double-lock anti-theft feature, selective unlocking ⁷	●	●	●	●	Illuminated visor vanity mirrors front and rear	●	●	●	●
Coded Driveway Protection	●	●	●	●	LED "atmosphere" lights in C-pillars	●	●	●	●
Pathway Lighting feature ⁷	●	●	●	●	Illuminated front console compartment	●	●	●	●
Alarm system with operation from remote, interior motion detector	●	●	●	●	Locking glove compartment with rechargeable take-out flashlight	●	●	●	●
Comfort and convenience					Illuminated exterior door handles and ground illumination	●	●	●	●
Vehicle & Key Memory	●	●	●	●	Rain-sensing windshield wipers with electronically controlled, reversible wiper motor	●	●	●	●
Keyless entry with multi-function remote control	●	●	●	●	Park Distance Control with graphic display	●	●	●	●
Selective unlocking ⁷	●	●	●	●	Heated steering wheel ⁸	○/■	○/■	○	●
Remote trunk release	●	●	●	●	Power outlet in passenger's-side footwell area	●	●	●	●
Power soft-close automatic doors and trunklid	△	△	△	●					

● Standard
○ Optional

▲ Adaptive Ride Package
□ Sport Package
◇ Luxury Seating Package
△ Convenience Package
■ Cold Weather Package
◆ Premium Sound Package
★ Rear Entertainment Package

⁵ Included in optional rear Comfort Seats.

⁶ Not available with Sport Seats.

⁷ Programmable via Vehicle & Key Memory.

⁸ Not available in 745i/745Li with Sport Package.

Standard equipment | Optional equipment

Comfort and convenience (cont.)	745i	745Li	760i	760Li
Comfort access system	○	○	○	○
Dual cupholders front and rear (total of 4-cup capacity)	●	●	●	●
Rear center armrest with storage compartment	●	●	●	●
Power rear-window and rear-side-window sunshades with driver and rear-passenger controls	○	○	○	●
Ski bag	■	■	○	●
Fully finished trunk with inside trunk release	●	●	●	●
Automatic trunk opening and closing	△	△	○	●

BMW Maintenance Program

BMW Full Maintenance ⁹	●	●	●	●
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Adaptive Ride Package

Self-leveling rear suspension with air springs	▲	▲	●	●
Electronic Damping Control, stepless	▲	▲	●	●

745i/745Li Sport Package

19 x 9.0 front / 19 x 10.0 rear V-Spoke (Styling 126) cast alloy wheels with 245/45R-19 front / 275/40R-19 rear performance tires ¹⁰	□	□		
High-Gloss black shadowline exterior trim	□	□		
3-spoke sport steering wheel with multi-function controls	□	□		
Power front sport seats (12-way driver's, 10-way passenger's) with adjustable thigh support	□	□		
Sport suspension	□	□		

Luxury Seating Package^{11, 12}

	745i	745Li	760i	760Li
16-way power front Comfort seats with articulated upper backrest	◇	●	●	●
Active front driver's seat with gentle massage action	◇	◇	●	●
Ventilated front seats	◇	◇	●	●
Heated front seats with fast heating and balance control	◇	◇	●	●
Heated rear seats	◇	◇	●	●
Active front head restraints	◇	●	●	●

Convenience Package

Powersoft-close automatic doors and trunklid	△	△	△	●
Automatic trunk opening and closing	△	△	△	●

Cold Weather Package¹¹

Heated front seats with fast heating and balance control	■	■	●	●
Heated rear seats	■	■	●	●
Heated steering wheel ¹²	■	■	○	●
Ski bag	■	■	○	●

Premium Sound Package

Logic7 audio system with 13 speakers, Digital Sound Processing and 6-disc in-dash CD changer; includes 2 subwoofers and all features of standard audio system	◆	◆	●	●
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Rear Entertainment Package

Includes 6.5", 16:9-format Liquid Crystal Display (LCD) monitor, trunk-mounted 6-disc CD/DVD changer, headphone jacks, and operated via rear iDrive controller	★	★	★	★
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⁹ Full Maintenance Program covers all factory-recommended maintenance, as determined by the Service Interval Indicator for 4 years or 50,000 miles, whichever comes first. Full Maintenance Program includes items that need replacement due to normal wear and tear, provided wear and tear exceeds BMW specifications. This includes items such as brake pads, brake rotors and wiper blades that are not covered by the original New Vehicle Limited Warranty. Any adjustments required due to normal operating conditions are also included. For exclusions and limitations, refer to the Service and Warranty Information booklet that came with your new BMW, or see your authorized BMW center for details.

¹⁰ Due to low-profile tires, please note: wheels, tires and suspension parts are more susceptible to road hazard and consequential damages. Performance tires not recommended for driving in snow and ice conditions.

¹¹ Luxury Seating Package and Cold Weather Package cannot be combined.

¹² Not available in 745i/745Li with Sport Package.

Specifications | Technical features

Weight		745i	745Li	760i	760Li
Unladen	lbs	4376	4464	4762	4872
Weight distribution, front/rear	%	50.4/49.6	50.6/49.4	51.6/48.4	51.6/48.4

Engine

Liter/type		4.4/V-8	4.4/V-8	6.0/V-12	6.0/V-12
Bore/stroke	inch	3.62/3.26	3.62/3.26	3.50/3.15	3.50/3.15
Nominal output/rpm	hp	325 @ 6100	325 @ 6100	438 @ 6000	438 @ 6000
Max torque/rpm	lb-ft	330 @ 3600	330 @ 3600	444 @ 3950	444 @ 3950
Compression ratio	:1	10.5	10.5	11.3:1	11.3:1
Fuel grade		Unleaded premium	Unleaded premium	Unleaded premium	Unleaded premium

Transmission

Automatic ratios	I/II/III	:1	4.17/2.34/1.52	4.17/2.34/1.52	4.17/2.34/1.52	4.17/2.34/1.52
	IV/V/VI	:1	1.14/0.87/0.69	1.14/0.87/0.69	1.14/0.87/0.69	1.14/0.87/0.69
	R	:1	3.40	3.40	3.40	3.40
Final drive ratio		:1	3.38	3.38	3.15	3.15

Performance

Acceleration 0-60 mph ¹	sec	5.9	5.9	5.4	5.4
Top speed ²	mph	149	149	149	149
Aerodynamic drag coefficient	C _d	0.29	0.29	0.29	0.29
Turning circle	ft	39.8	41.3	39.8	41.3

Fuel consumption³

City/highway	mpg	18/26	18/26	15/23	15/23
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Tires, wheels and brakes			745i	745Li	760i	760Li
Tire dimensions Standard	front		245/50R-18 ⁴	245/50R-18 ⁴	245/40R-20 ⁵	245/45R-19 ⁵
	rear		245/50R-18 ⁴	245/50R-18 ⁴	275/35R-20 ⁵	275/40R-19 ⁵
Optional	front		245/45R-19 ⁵	245/45R-19 ⁵		
	rear		275/40R-19 ⁵	275/40R-19 ⁵		
Sport Package	front		245/45R-19 ⁵	245/45R-19 ⁵		
	rear		275/40R-19 ⁵	275/40R-19 ⁵		
	front					245/50R-18 ⁴
	rear					245/50R-18 ⁴
Wheel dimensions Standard	front	inch	18 x 8.0	18 x 8.0	20 x 9.0	19 x 9.0
	rear	inch	18 x 8.0	18 x 8.0	20 x 10.0	19 x 10.0
Optional	front	inch	19 x 9.0	19 x 9.0		
	rear	inch	19 x 10.0	19 x 10.0		
Sport Package	front	inch	19 x 9.0	19 x 9.0		
	rear	inch	19 x 10.0	19 x 10.0		
NC Optional	front	inch				18 x 8.0
	rear	inch				18 x 8.0
Material			alloy	alloy	alloy	alloy
Brake dimensions (diameter x thickness)						
	front	inch	13.7 x 1.18	13.7 x 1.18	13.7 x 1.18	13.7 x 1.18
	rear	inch	13.6 x 0.94	13.6 x 0.94	13.6 x 0.94	13.6 x 0.94

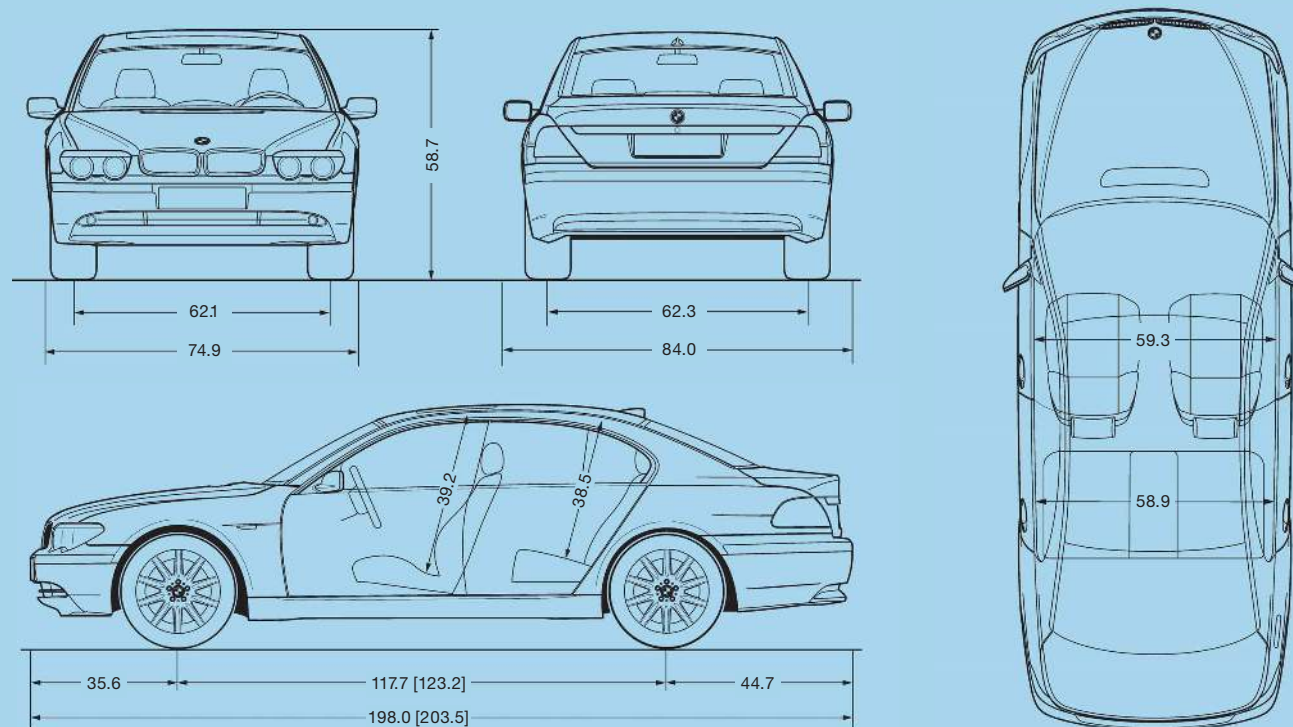
¹ BMW AG test results. Actual acceleration results may vary, depending on specification of vehicle; road and environmental conditions; testing procedures and driving style. These results should be used for comparison only and verification should not be attempted on public roads. **BMW urges you to obey all posted speed laws and always wear safety belts.**

² Top speed limited electronically.

³ EPA-estimated figures are for comparison purposes only. Your actual mileage will vary, depending upon speed, driving habits, trip length and driving conditions; actual mileage will most likely be lower.

⁴ All-season tires.

⁵ Performance tires. Due to low-profile tires, please note: wheels, tires and suspension parts are more susceptible to road hazard and consequential damages.



All dimensions shown in inches. Figures in [] apply to the 745Li/760Li; all other figures apply to 745i and 760i.

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