

ALPINE B7



MANUFACTURER OF  
EXCLUSIVE AUTOMOBILES



BMW ALPINA B7



HERSTELLER  
EXCLUSIVER AUTOMOBILE

The BMW 760i – with its 12 cylinders – is unquestionably one of the finest and most comfortable saloons in the luxury segment

There is a small circle of enthusiasts, people who enjoy getting behind the wheel themselves, who yearn for the sportiness provided in a smaller car, but don't want to miss out on an automobile in this class. To achieve optimum agility and handling, ALPINA made a point of basing the B7 on the BMW 7 Series with V8 engine. The V8 offers the best jumping-off point in terms of dynamism, with an ideal 50/50 weight balance, also weighing around 150 kg less than the comparable V12 model

The B7 designation carries with long tradition, and has stood for charged engines at ALPINA since the late 1970s. The heart of the B7 is a 4.4 litre V8 engine that is charged through the use of a radial (Nautilus-type) compressor. The combination of Valvetronic and charging represents a premiere. Through the use of Valvetronic's complete functionality, the charge is controlled by varying the valve opening depth and the boost pressure. This frees up the engine to a degree and provides better fuel economy at partial engine loads. The radial compressor is driven by a dedicated poly-V-belt, separate from the serpentine belts running other aggregates. At low rpm, a clutch de-couples the compressor from its drive-belt. The compressed air charge reaches the engine via an air-to-air intercooler. The EMITEC metallic catalytic converters are mounted quite close to the engine. In combination with secondary air induction, the EU4 standard is achieved

This charging helps the ALPINA engine generate impressive performance figures: 368 kW (500 bhp) at 5,500 rpm, and maximum torque of 700 Nm at 4,250 rpm. The result is excellent performance coupled with a saloon's unique comfort. The feeling of jet-engine acceleration reaches heights of around 300 kph, with 100 kph flashing by in under 5.5 seconds

The silhouette of the B7 is markedly more dynamic and graceful through the 21" ALPINA wheels and the rising wedge shape at the rear of the automobile, finishing harmoniously in a rear deck spoiler. With the help of the newly re-shaped ALPINA front valance and spoiler, the B7 achieves a coefficient of drag of only 0,31 in the BMW wind tunnel, helping to ensure stability at the highest speeds

This sporty elegance carries through to the interior. Directly in the driver's field of vision are large circular instruments finished in traditional ALPINA blue with red pointers. A warm ambience is communicated by the top-quality ALPINA luxury wood 'curled maple' in combination with the finest leather. The B7 is precisely guided using the new ALPINA three-spoke sport steering wheel (385 mm diameter) finished in attractive-to-the-touch LAVALINA leather. SWITCH-TRONIC shift buttons are ergonomically integrated on the reverse side of the steering wheel

An agile-shifting ZF 6-speed automatic augments the B7's already sporty nature. In Drive, it provides the ability to glide along comfortably and effortlessly. In SWITCH-TRONIC, sporty driving is right at one's fingertips, especially when shifting manually using the buttons at the wheel, much like in Formula 1

The precise steering of the lowered B7, and its neutral handling, allow one to forget the size of this automobile. A, large, dynamic saloon, it offers great driving pleasure on twisty secondary roads due to its light-footed nature, as well as superior power for the autobahn. The wheel and tyre combination delivers excellent road-holding, with MICHELIN Pilot tyres (255/35 ZR21 front and 295/30 ZR21 rear). And in combination with generously-dimensioned brakes (374 mm front and 370 mm rear), phenomenal braking capability

As with every BMW ALPINA, there's an exclusive, sequentially-numbered production plaque. We will deliver the first of these new automobiles to our customers in April 2004

## DIMENSIONS & WEIGHTS

Length	mm	5029 (5169)
Width	mm	1902
Height, unladen	mm	1477
Wheelbase	mm	2990 (3130)
Front track	mm	1580
Rear track	mm	1576
Luggage capacity	l	500
Fuel tank	l	ca. 88
Weight, unladen (DIN)	kg	1950 (1990)
Max. weight permitted	kg	2520 (2560)
Payload	kg	570
Max. axle load front	kg	1200 (1220)
Max. axle load rear	kg	1360 (1380)
Max. trailer load permitted, braked	kg	2100
Max. trailer load permitted, unbraked	kg	750

## ENGINE

Cylinder		V8 90°
Capacity	cm <sup>3</sup>	4398
Bore	mm	92
Stroke	mm	82,7
Compression ratio	: 1	9,0
Max. power	kW/bhp	368/500
at	rpm	5500
Max. torque	Nm	700
at	rpm	4250
Engine management		BOSCH Motronic ME 9.2.1
Fuel		Super plus
Emission classification		Euro 4

Data for long wheelbase in ( )

## TRANSMISSION

Gearbox	ZF 6-speed automatic 6HP26 with SWITCH-TRONIC	
Gearbox ratios	1 <sup>st</sup> gear	4,17
	2 <sup>nd</sup> gear	2,34
	3 <sup>rd</sup> gear	1,52
	4 <sup>th</sup> gear	1,14
	5 <sup>th</sup> gear	0,87
	6 <sup>th</sup> gear	0,69
	rev.	3,40
Axle drive ratio	: 1	3,64

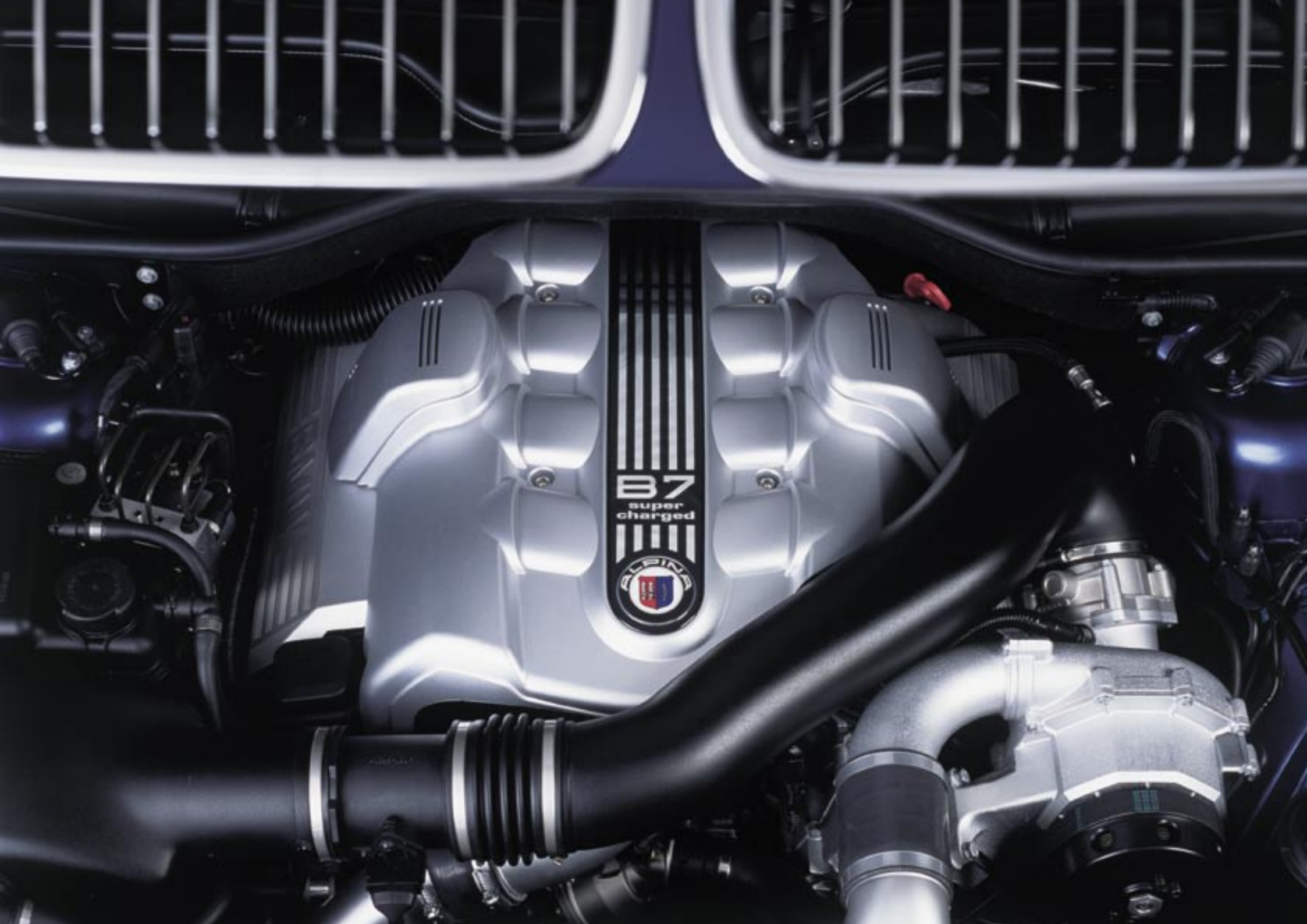
## WHEELS & TYRES

Weight-optimised light alloy wheels, spoke design with concealed tyre valves behind lockable light alloy hub caps		
	front	9 x 21"
	rear	10,5 x 21"
Tyres MICHELIN Pilot	front	255/35 ZR21
	rear	295/30 ZR21

## PERFORMANCE

Acceleration 0-100 km/h	s	< 5,5
Top speed	km/h	300





BMW ALPINA STANDARD EQUIPMENT	B7	B7 LONG WHEELBASE
Alarm system	O	O
Automatic boot lid operation	X	O
Individual white direction indicator lights	O	O
CD changer	O	O
Deco-Set gold or silver – on request	O	O
Luxury wood ALPINA ‘curled maple’	O	O
Glass roof, electric with sliding and vent function	O	O
Windscreen with green shade band	O	O
Rear spoiler	O	O
Hi-Fi loudspeaker system	O	O
Interior and exterior mirrors with automatic anti-dazzle function	O	O
Automatic air conditioning	O	O
Climate comfort windscreen	O	O
Steering wheel - SWITCH-TRONIC three-spoke, sport, leather, hand-sewn, in ALPINA design, multi-function	O	O
Lumbar support for driver and passenger	O	O
Metallic paintwork in standard BMW colours	O	O
Navigation system Professional	O	O
levelling pneumatic rear suspension	O	O
Park Distance Control (PDC)	O	O
Upholstery - leather interior Pearl in ALPINA design (only when combined with 481 sport seats)	O	
Upholstery - leather interior Nasca in ALPINA design (only when combined with 456 comfort seats)	X	O
Radio BMW Professional with CD player	O	O
Rain sensor and automatic headlight control	O	O
Flat Tyre Indicator	O	O
Headlight washer system	O	O
High Gloss Shadow Line Exterior Trim	O	O
Seats - sports seats for driver and front passenger	O	
Seats - comfort seats front, electric with multi-function	X	O
Seat heating for driver and front passenger	O	O
Seat heating at the rear	X	O
Seat adjustment, electric with memory function	O	O
Sunblind for rear window, electric	O	
Sunblinds for rear window and rear side windows, electric	X	O
Voice control system	O	O
Telephone - Car telephone Professional	O	O
Silver-plated ALPINA production plaque	O	O
Velour floor mats, in ALPINA Design	O	O
Xenon headlights with headlight washer system	O	O

Self-

O = standard X = additional charge

