

BMW

U.S. Media Information

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Technical Data.

2011 BMW Alpina B7.

	Alpina B7		Alpina B7 xDrive		Alpina B7 L		Alpina B7 L xDrive	
	Sedan		Sedan		Sedan		Sedan	
	Auto 6 Speed		Auto 6 Speed		Auto 6 Speed		Auto 6 Speed	
10.01.2010	Preliminary		Preliminary		Preliminary		Preliminary	
Body								
No. of Doors / Seating Capacity	-		4 / 5		4 / 5		4 / 5	
Vehicle Length	mm / inch	5087 / 200.2	5087 / 200.2	5227 / 205.7	5227 / 205.7	5227 / 205.7	5227 / 205.7	
Vehicle Width	mm / inch	1902 / 74.9	1902 / 74.9	1902 / 74.9	1902 / 74.9	1902 / 74.9	1902 / 74.9	
Vehicle Height, Unloaded	mm / inch	1484 / 58.4	1484 / 58.4	1484 / 58.4	1484 / 58.4	1484 / 58.4	1484 / 58.4	
Wheelbase	mm / inch	3070 / 120.9	3070 / 120.9	3210 / 126.4	3210 / 126.4	3210 / 126.4	3210 / 126.4	
Turning Circle	m / ft	12.2 / 40.0	12.5 / 41.0	12.7 / 41.7	12.7 / 41.7	12.7 / 41.7	13.0 / 42.7	
Track, Front	mm / inch	1621 / 63.8	1621 / 63.8	1621 / 63.8	1621 / 63.8	1621 / 63.8	1621 / 63.8	
Track, Rear	mm / inch	1628 / 64.1	1628 / 64.1	1628 / 64.1	1628 / 64.1	1628 / 64.1	1628 / 64.1	
Width at Shoulderheight, Front	mm / inch	1503 / 59.2	1503 / 59.2	1503 / 59.2	1503 / 59.2	1503 / 59.2	1503 / 59.2	
Width at Shoulderheight, Rear	mm / inch	1458 / 57.4	1458 / 57.4	1462 / 57.6	1462 / 57.6	1462 / 57.6	1462 / 57.6	
Effective Leg Room, Front	mm / inch	1048 / 41.3	1048 / 41.3	1046 / 41.3	1046 / 41.3	1046 / 41.3	1046 / 41.3	
Effective Leg Room, Rear	mm / inch	987 / 38.9	987 / 38.9	1124 / 44.3	1124 / 44.3	1124 / 44.3	1124 / 44.3	
Effective Head Room, Front	mm / inch	1032 / 40.6	1032 / 40.6	1036 / 40.8	1036 / 40.8	1036 / 40.8	1036 / 40.8	
Effective Head Room, Rear	mm / inch	978 / 38.5	978 / 38.5	988 / 38.9	988 / 38.9	988 / 38.9	988 / 38.9	
Trunk Volume acc SAE1100	ft³	14	14	14	14	14	14	
Fuel Capacity	L / gal	82 / 21.7	82 / 21.7	82 / 21.7	82 / 21.7	82 / 21.7	82 / 21.7	
Curb Weight	kg / lbs	2070 / 4564	2140 / 4718	2105 / 4641	2105 / 4641	2205 / 4861	2205 / 4861	
Weight Distribution, Front / Rear	%	51.4 / 48.6	53.8 / 47.2	51.5 / 48.5	51.5 / 48.5	53.8 / 47.2	53.8 / 47.2	
Gross Vehicle Weight Rating (GVWR)	kg / lbs	2585 / 5699	2650 / 5842	2625 / 5787	2625 / 5787	2705 / 5964	2705 / 5964	
Payload	kg / lbs	480 / 1058	480 / 1058	480 / 1058	480 / 1058	480 / 1058	480 / 1058	
Axle Load Limit, front	kg / lbs	1265 / 2789	1330 / 2932	1285 / 2833	1285 / 2833	1330 / 2932	1330 / 2932	
Axle Load Limit, rear	kg / lbs	1385 / 3053	1390 / 3064	1415 / 3120	1415 / 3120	1450 / 3197	1450 / 3197	
Towing Capacity	kg / lbs	- / -	- / -	- / -	- / -	- / -	- / -	
Roof Load Limit	kg / lbs	100 / 220	100 / 220	100 / 220	100 / 220	100 / 220	100 / 220	
Drag Coefficient	Cd	0.31	0.32	0.31	0.31	0.32	0.32	
Drag Cd x A	m² / ft²	0.75 / 8.04	0.77 / 8.3	0.75 / 8.04	0.75 / 8.04	0.77 / 8.3	0.77 / 8.3	
Engine	N63 - Alpina		N63 - Alpina		N63 - Alpina		N63 - Alpina	
Engine Type / Cylinder / Valves per Cylinder	-		V 90°/ 8 / 4 VANOS		V 90°/ 8 / 4 VANOS		V 90°/ 8 / 4 VANOS	
Engine Management System	-		MSD 85.1 Direct Injection		MSD 85.1 Direct Injection		MSD 85.1 Direct Injection	
Induction System/Boost Pressure	-		twin turbo reverse flow "hot V"		twin turbo reverse flow "hot V"		twin turbo reverse flow "hot V"	
Boost Pressure	Bar	1.0	1.0	1.0	1.0	1.0	1.0	
Displacement	cm³ / inch³	4395 / 268.2	4395 / 268.2	4395 / 268.2	4395 / 268.2	4395 / 268.2	4395 / 268.2	
Stroke	mm / inch	88.3 / 3.48	88.3 / 3.48	88.3 / 3.48	88.3 / 3.48	88.3 / 3.48	88.3 / 3.48	
Bore	mm / inch	89 / 3.50	89 / 3.50	89 / 3.50	89 / 3.50	89 / 3.50	89 / 3.50	
Power	SAE hp / rpm	500 / 5500	500 / 5500	500 / 5500	500 / 5500	500 / 5500	500 / 5500	
Torque	ft lbs / rpm	516 / 3000-4700	516 / 3000-4700	516 / 3000-4700	516 / 3000-4700	516 / 3000-4700	516 / 3000-4700	
Compression Ratio / Fuel type	-	9.2 / Premium	9.2 / Premium	9.2 / Premium	9.2 / Premium	9.2 / Premium	9.2 / Premium	
Chassis and Suspension	6HP26 TU		6HP26 TU		6HP26 TU		6HP26 TU	
Codification of Reference Gearbox	-		-		-		-	
Gear Ratios	I	4.171	4.171	4.171	4.171	4.171	4.171	
	II	2.340	2.340	2.340	2.340	2.340	2.340	
	III	1.521	1.521	1.521	1.521	1.521	1.521	
	IV	1.143	1.143	1.143	1.143	1.143	1.143	
	V	0.867	0.867	0.867	0.867	0.867	0.867	
	VI	0.691	0.691	0.691	0.691	0.691	0.691	
	VII	-	-	-	-	-	-	
	VIII	-	-	-	-	-	-	
Reverse Ratio	-	3.403	3.403	3.403	3.403	3.403	3.403	
Final Drive Ratio	-	3.46	3.46	3.46	3.46	3.46	3.46	
Steering Type / Ratio	-	Rack-and-pinion / 19.1	Rack-and-pinion / 19.1	Rack-and-pinion / 19.1	Rack-and-pinion / 19.1	Rack-and-pinion / 19.1	Rack-and-pinion / 19.1	
Front Brakes / Diameter	- / mm / inch	Vent. Disc / 374 / 14.7	Vent. Disc / 374 / 14.7	Vent. Disc / 374 / 14.7	Vent. Disc / 374 / 14.7	Vent. Disc / 374 / 14.7	Vent. Disc / 374 / 14.7	
Rear Brakes / Diameter	- / mm / inch	Vent. Disc / 370 / 14.6	Vent. Disc / 370 / 14.6	Vent. Disc / 370 / 14.6	Vent. Disc / 370 / 14.6	Vent. Disc / 370 / 14.6	Vent. Disc / 370 / 14.6	
Tire Type, Front	-	245/35 R21	245/50 R18 100V RSC AS	245/50 R18 100V RSC AS	245/50 R18 100V RSC AS	245/50 R18 100V RSC AS	245/50 R18 100V RSC AS	
Tire Type, Rear	-	285/30 R21	245/50 R18 100V RSC AS	245/50 R18 100V RSC AS	245/50 R18 100V RSC AS	245/50 R18 100V RSC AS	245/50 R18 100V RSC AS	
Tire Type, Front w. Sport Package (top)	-	-	-	-	-	-	-	
Tire Type, Rear w. Sport Package (top)	-	-	-	-	-	-	-	
Wheels, Front	-	8.5J x 21 Light alloy	8.5J x 21 Light alloy	8.5J x 21 Light alloy	8.5J x 21 Light alloy	8.5J x 21 Light alloy	8.5J x 21 Light alloy	
Wheels, Rear	-	10J x 21 Light alloy	10J x 21 Light alloy	10J x 21 Light alloy	10J x 21 Light alloy	10J x 21 Light alloy	10J x 21 Light alloy	
Wheels, Front w. Sport Package (top)	-	-	-	-	-	-	-	
Wheels, Rear w. Sport Package (top)	-	-	-	-	-	-	-	
Performance	280 / 175		280 / 175		280 / 175		280 / 175	
Top Speed	km/h / mph	-	-	-	-	-	-	
Top Speed w. Sport Package	km/h / mph	-	-	-	-	-	-	
Acceleration, 0-60 mph	s	4.5	4.6	4.5	4.5	4.6	4.6	
Acceleration, 0-100 Km/h	s	4.7	4.8	4.7	4.7	4.8	4.8	
Fuel Economy, EPA Estimate - City	mpg	14	14	14	14	14	14	
Fuel Economy, EPA Estimate - Highway	mpg	21	20	21	21	20	20	
Fuel Economy, EPA Estimate - Combined	mpg	17	16	17	17	16	16	
Approximate Range	km / miles	595 / 370	560 / 350	595 / 370	595 / 370	560 / 350	560 / 350	