

BMW

U.S. Press Information

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Technical Data.

2011 BMW 5 Series Gran Turismo.

| | 535i Gran Turismo Auto 8 Speed | 535i xDrive Gran Turismo Auto 8 Speed | 550i Gran Turismo Auto 8 Speed | 550i xDrive Gran Turismo Auto 8 Speed |
|--|---------------------------------------|---|--------------------------------------|---|
| 10.01.2010 | | | | |
| Body | | | | |
| No. of Doors / Seating Capacity | - / 4 / 5 | - / 4 / 5 | - / 4 / 5 | - / 4 / 5 |
| Vehicle Length | mm / inch 4999 / 196.8 | 4999 / 196.8 | 4999 / 196.8 | 4999 / 196.8 |
| Vehicle Width | mm / inch 1901 / 74.8 | 1901 / 74.8 | 1901 / 74.8 | 1901 / 74.8 |
| Vehicle Height, Unloaded | mm / inch 1559 / 61.4 | 1559 / 61.4 | 1559 / 61.4 | 1559 / 61.4 |
| Wheelbase | mm / inch 3070 / 120.7 | 3070 / 120.7 | 3070 / 120.7 | 3070 / 120.7 |
| Turning Circle | m / ft 12.2 / 40.0 | 12.2 / 40.0 | 12.2 / 40.0 | 12.2 / 40.0 |
| Track, Front | mm / inch 1611 / 63.4 | 1611 / 63.4 | 1611 / 63.4 | 1611 / 63.4 |
| Track, Rear | mm / inch 1654 / 65.1 | 1654 / 65.1 | 1654 / 65.1 | 1654 / 65.1 |
| Width at Shoulderheight, Front | mm / inch 1506 / 59.3 | 1506 / 59.3 | 1506 / 59.3 | 1506 / 59.3 |
| Width at Shoulderheight, Rear | mm / inch 1466 / 57.7 | 1466 / 57.7 | 1466 / 57.7 | 1466 / 57.7 |
| Effective Leg Room, Front | mm / inch 1030 / 40.6 | 1030 / 40.6 | 1030 / 40.6 | 1030 / 40.6 |
| Effective Leg Room, Rear | mm / inch 1062 / 41.8 | 1062 / 41.8 | 1062 / 41.8 | 1062 / 41.8 |
| Effective Head Room, Front | mm / inch 1051 / 41.4 | 1051 / 41.4 | 1051 / 41.4 | 1051 / 41.4 |
| Effective Head Room, Rear | mm / inch 991 / 39.0 | 991 / 39.0 | 991 / 39.0 | 991 / 39.0 |
| Trunk Volume acc SAE1100 | ft³ 10 / 15 / 63 | 10 / 15 / 63 | 10 / 15 / 63 | 10 / 15 / 63 |
| Fuel Capacity | L / gal 70 / 18.5 | 70 / 18.5 | 70 / 18.5 | 70 / 18.5 |
| Curb Weight | kg / lbs 2105 / 4641 | 2135 / 4707 | 2220 / 4894 | 2295 / 5060 |
| Weight Distribution Front/Rear | % 47.3/52.7 | 48.7/51.3 | 48.9/51.1 | 50.3/49.7 |
| Gross Vehicle Weight Rating (GVWR) | kg / lbs 2510 / 5754 | 2675 / 5897 | 2700 / 5952 | 2765 / 6096 |
| Payload | kg / lbs 460 / 1014 | 460 / 1014 | 440 / 970 | 440 / 970 |
| Axle Load Limit, front | kg / lbs 1210 / 2668 | 1260 / 2778 | 1290 / 2844 | 1350 / 2975 |
| Axle Load Limit, rear | kg / lbs 1500 / 3307 | 1500 / 3307 | 1500 / 3307 | 1500 / 3307 |
| Towing Capacity | kg / lbs - | - | - | - |
| Roof Load Limit | kg / lbs 75 / 165 | 75 / 165 | 75 / 165 | 75 / 165 |
| Drag Coefficient | Cd 0.31 | 0.31 | 0.32 | 0.32 |
| Drag Cd x A | m² / ft² 0.80 / 8.6 | 0.80 / 8.6 | 0.82 / 8.8 | 0.82 / 8.8 |
| Engine | | | | |
| Engine Type / Cylinder / Valves per Cylinder | - / 6 / 4 VANOS | - / 6 / 4 VANOS | - / 8 / 4 VANOS | - / 8 / 4 VANOS |
| Engine Management System | MEVD17.2 Direct Injection | MEVD17.2 Direct Injection | MSD 85 Direct Injection | MSD 85 Direct Injection |
| Induction System | Valvetronic, single twin scroll turbo | Valvetronic, single twin scroll turbo | twin turbo reverse flow "hot V" | twin turbo reverse flow "hot V" |
| Boost Pressure / Overboost | Bar 0.6 | 0.6 | 0.6 | 0.6 |
| Displacement | cm³ / inch³ 2979 / 181.8 | 2979 / 181.8 | 4395 / 268.2 | 4395 / 268.2 |
| Stroke | mm / inch 89.6 / 3.53 | 89.6 / 3.53 | 88.3 / 3.48 | 88.3 / 3.48 |
| Bore | mm / inch 84 / 3.31 | 84 / 3.31 | 89 / 3.50 | 89 / 3.50 |
| Power | SAE hp / rpm 300 / 5800-6250 | 300 / 5800-6250 | 400 / 5500-6400 | 400 / 5500-6400 |
| Torque | ft lbs / rpm 300 / 1200-5000 | 300 / 1200-5000 | 450 / 1750-4500 | 450 / 1750-4500 |
| Compression Ratio / Fuel type | - / 10.2 / Premium | - / 10.2 / Premium | - / 10.0 / Premium | - / 10.0 / Premium |
| Chassis and Suspension | | | | |
| Codification of Reference Gearbox | - 8HP45 | 8HP45 | 8HP70 | 8HP70 |
| Gear Ratios | I 4.714 | 4.714 | 4.714 | 4.714 |
| II 3.143 | 3.143 | 3.143 | 3.143 | 3.143 |
| III 2.106 | 2.106 | 2.106 | 2.106 | 2.106 |
| IV 1.667 | 1.667 | 1.667 | 1.667 | 1.667 |
| V 1.285 | 1.285 | 1.285 | 1.285 | 1.285 |
| VI 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| VII 0.839 | 0.839 | 0.839 | 0.839 | 0.839 |
| VIII 0.667 | 0.667 | 0.667 | 0.667 | 0.667 |
| Reverse Ratio | - 3.295 | 3.295 | 3.317 | 3.317 |
| Final Drive Ratio | - 3.077 | 3.077 | 3.077 | 3.077 |
| Steering Type / Ratio | - 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 / 348 / 13.7 | Vent. Disc / 348 / 13.7 | Vent. Disc / 374 / 14.7 | Vent. Disc / 374 / 14.7 |
| Rear Brakes / Diameter | - / mm / inch Vent. Disc / 345 / 13.6 | Vent. Disc / 345 / 13.6 | Vent. Disc / 370 / 14.6 | Vent. Disc / 370 / 14.6 |
| Tire Type, Front | - 245/50 R18 100V AS RSC | 245/50 R18 100V AS RSC | 245/50 R18 100V AS RSC | 245/50 R18 100V AS RSC |
| Tire Type, Rear | - 245/50 R18 100V AS RSC | 245/50 R18 100V AS RSC | 245/50 R18 100V AS RSC | 245/50 R18 100V AS RSC |
| Tire Type, Front w. Sport Package (top) | - 245/40 R20 Z RSC | 245/40 R20 Z RSC | 245/40 R20 Z RSC | 245/40 R20 Z RSC |
| Tire Type, Rear w. Sport Package (top) | - 275/30 R20 Z RSC | 275/30 R20 Z RSC | 275/30 R20 Z RSC | 275/30 R20 Z RSC |
| Wheels, Front | - 8J x 18 Light alloy | 8J x 18 Light alloy | 8J x 18 Light alloy | 8J x 18 Light alloy |
| Wheels, Rear | - 8J x 18 Light alloy | 8J x 18 Light alloy | 8J x 18 Light alloy | 8J x 18 Light alloy |
| Wheels, Front w. Sport Package (top) | - 8.5J x 20 Light alloy | 8.5J x 20 Light alloy | 8.5J x 20 Light alloy | 8.5J x 20 Light alloy |
| Wheels, Rear w. Sport Package (top) | - 10J x 20 Light alloy | 10J x 20 Light alloy | 10J x 20 Light alloy | 10J x 20 Light alloy |
| Performance | | | | |
| Top Speed | km/h / mph 240 / 150 | 240 / 150 | 240 / 150 | 240 / 150 |
| Top speed w. Sport Package | km/h / mph 240 / 150 | 240 / 150 | 240 / 150 | 240 / 150 |
| Acceleration, 0-60 mph | s 6.2 | 6.1 | 5.4 | 5.3 |
| Acceleration, 0-100 Km/h | s 6.5 | 6.5 | 5.7 | 5.6 |
| Fuel Economy, EPA Estimate - City | mpg 20 | 19 | 15 | 15 |
| Fuel Economy, EPA Estimate - Highway | mpg 30 | 29 | 22 | 22 |
| Fuel Economy, EPA Estimate - Combined | mpg 24 | 23 | 18 | 17 |
| Approximate Range | km / miles 700 / 430 | 670 / 415 | 520 / 325 | 495 / 306 |