

BMW of North America, Inc.

IMMEDIATE

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2001 BMW 5 SERIES V-8 MODELS SPECIFICATIONS

GENERAL	540i sedan Automatic	540i sedan 6-Speed	540i sport wagon
Curb weight, lb.	3803	3748	4056
Weight distribution, front/rear, %	52.5/47.5	52.1/47.9	50.0/50.0
Wheelbase, in.	111.4 ¹		
Track, front/rear, in.	59.5/60.1 ²	59.5/59.6	59.5/60.1
Length x width X height, in.	188.0 x 70.9 x 56.5 ³	189.2 x 70.9 x 55.8	188.0 x 70.9 x 56.7 ³

¹ – Specification applies to all models.

² – With Sport Package, tracks are 59.5/59.6 in.

³ – Height with sport suspension is 0.8 in. lower. Height measurement for sport wagons does not include roof rails.

BODY

	540i sedan Automatic	540i sedan 6-speed	540i sport wagon
Type	Unitized all-steel structure ¹		
Aerodynamic drag coefficient	0.31	0.31	0.33
EPA size classification	Compact	Compact	Small station wagon

ACCOMMODATIONS

Seating capacity, persons	5 ¹		
Shoulder room, front/rear, in.	56.8/55.9 ¹		
Head room, front/rear, in.	37.4/37.2	37.4/37.2	37.4/37.4
Leg room, front/rear, in.	41.7/34.2 ¹		
EPA interior volume, cu ft.	92.5	92.6	92.4
EPA cargo volume, cu ft.	11.1 ⁴	11.1 ⁴	32.1/63.9 ⁵

ENGINE & ELECTRICAL

Engine type	DOHC 32-valve (4-cam) V-8 VANOS ⁶ steplessly variable intake-valve timing ¹		
Bore x stroke, in./mm	3.62 x 3.26/92.0 x 82.7 ¹		
Displacement, cc/cu in.	439/268 ¹		
Compression ratio	10.0:1 ¹		
Power @ rpm, hp	282 @ 5400 ¹		
Torque @ rpm, lb-ft.	324 @ 3600 ¹		
Engine-management system	Bosch Motronic M 7.2 with adaptive knock control ¹		

⁴ – Can be expanded via available folding rear seats.

⁵ – Rear seats upright/folded.

⁶ – VANOS = **V**ARIABLE **N**Ockenwellen **S**teuerung = variable camshaft control, or variable valve timing.

ENGINE & ELECTRICAL (cont'd) 540i sedan Automatic 540i sedan 6-Speed 540i sport wagon

Fuel requirement	Premium unleaded
Fuel capacity, U.S. gal.	18.5 ¹
Battery capacity, amp-hr.	90 ¹
Alternator output, amp./W	150/2100 ¹

DRIVETRAIN

Drive system	Front engine/rear drive ¹		
Manual transmission	NA	Getrag Type D, 6-speed	NA
Ratios: 1st	—	4.23:1	—
2nd	—	2.53:1	—
3rd	—	1.67:1	—
4th	—	1.23:1	—
5th	—	1.00:1	—
6th	—	0.83:1	—
Reverse	—	3.75:1	—
Final drive ratio	—	2.81:1	—

DRIVETRAIN (cont'd)

Automatic transmission

540i sedan Automatic 540i sedan 6-Speed 540i sport wagon

ZF 5 HP 24 EH, 5-speed, with Adaptive Transmission Control & selectable Sport mode or STEPTRONIC ⁷

Ratios: 1st	3.57:1	–	3.57:1
2nd	2.20:1	–	2.20:1
3rd	1.51:1	–	1.51:1
4th	1.00:1	–	1.00:1
5th	0.80:1	–	0.80:1
Reverse	4.10:1	–	4.10:1
Final drive ratio	2.81:1 ⁸	2.81:1	3:15:1

CHASSIS

Body/frame construction

Unitized steel ¹

Front suspension

Struts, double-pivot lower arms, coil springs, twin-tube gas-pressure shock absorbers, anti-roll bar; aluminum suspension system ¹
(SP, 540i sedan 6-Speed: sport suspension calibration)

Rear suspension

4-link Integral suspension in aluminum; coil springs (sedans), self-leveling air springs (sport wagon); twin-tube gas-pressure shock absorbers, anti-roll bar; aluminum subframe ¹
(SP, 540i 6-Speed: sport suspension calibration)

⁷ – 540i sedan Automatic has selectable Sport mode. 540i sedan Automatic with Sport Package & 540i sport wagon have STEPTRONIC, which includes selectable Sport mode & manual shift capability.

⁸ – 3.15:1 with Sport Package.

CHASSIS (cont'd)

540i sedan Automatic 540i sedan 6-Speed 540i sport wagon

Steering type	Recirculating ball, engine-speed-sensitive power assist ¹		
Overall ratio	17.9:1 ¹		
Turns lock-to-lock	3.0 ¹		
Turning circle, ft.	37.4 ¹		
Antilock braking system:			
Front discs, diameter x thickness	12.8- x 1.18-in. ventilated, cast-iron calipers ¹		
Rear discs, diameter x thickness	11.7- x 0.79-in. ventilated, aluminum calipers ¹		
Dynamic Brake Control	Standard ¹		
Wheels: standard	Cast alloy, 16 x 7.0 17 x 8.0 front / 17 x 9.0 rear (SP)	Cast alloy, 17 x 8.0 front/ 17 x 9.0 rear as standard (M Double Spoke option)	Cast alloy, 16 x 7.0 17 x 8.0 (SP)
Tires: standard	All-season radials, 225/60R-15 96H	Performance radials, 235/45R-17 94W front/ 255/40R-17 94W rear	All-season radials, 225/55R-16 H
optional	All-season radials, 235/45R-17 94W front/ 255/40R-17 94W rear	Same specifications as standard (M Double Spoke option)	Performance radials, 235/45R-17 94W (SP)
Stability-enhancement systems	Antilock braking system (ABS), All Season Traction (AST) & Dynamic Stability Control (DSC) ¹		

SP – Sport Package.

PERFORMANCE DATA

	540i sedan Automatic	540i sedan 6-Speed	540i sport wagon
Acceleration, 0-60 mph, sec., manual/automatic ⁹	6.2/6.1 ¹⁰	5.8	6.3
Top speed	128/155 ¹⁰	155	128
Fuel economy, EPA est. MPG, city/highway	18/24 / 15/21 ¹⁰	15/23	15/21

SP – Sport Package.

⁹ – BMW of North America test results. Actual acceleration results may vary depending on specification of vehicle; road & environmental conditions; test 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 limits and to please wear your safety belt at all times.

¹⁰ – Standard/Sport Package.