



SCALE: 10" DIVISIONS

**PRICE**

List price ..... est \$8000  
 Price as tested ..... est \$9000  
 Price as tested includes metallic paint (est \$250), sunroof (est \$275), alloy wheels (est \$325), dealer prep (est \$150)

**IMPORTER**

BMW of North America  
 BMW Plaza  
 Montvale, N.J. 07645

**GENERAL**

Curb weight, lb ..... 2605  
 Test weight ..... 2980  
 Weight distribution (with driver), front/rear, % ..... 54/46  
 Wheelbase, in. .... 100.9  
 Track, front/rear ..... 54.6/55.1  
 Length ..... 177.5  
 Width ..... 63.4  
 Height ..... 54.3  
 Ground clearance ..... 5.7  
 Overhang, front/rear ..... 33.8/42.8  
 Usable trunk space, cu ft ..... 12.6  
 Fuel capacity, U.S. gal. .... 15.9

**ENGINE**

Type ..... sohc inline 4  
 Bore x stroke, mm ..... 89.0 x 80.0  
 Equivalent in. .... 3.50 x 3.15  
 Displacement, cc/cu in. .... 1990/121  
 Compression ratio ..... 8.1:1  
 Bhp @ rpm, net ..... 110 @ 5800  
 Equivalent mph ..... 106  
 Torque @ rpm, lb-ft .. 112 @ 3750  
 Equivalent mph ..... 68  
 Fuel injection ..... Bosch K-Jetronic  
 Fuel requirement ..... regular, 91-oct  
 Exhaust-emission control equipment: air injection, exhaust-gas recirculation

**DRIVETRAIN**

Transmission ..... 4-sp manual  
 Gear ratios: 4th (1.00) ..... 3.64:1  
 3rd (1.32) ..... 4.80:1  
 2nd (2.02) ..... 7.35:1  
 1st (3.76) ..... 13.69:1  
 Final drive ratio ..... 3.64:1

**ACCOMMODATION**

Seating capacity, persons ..... 5  
 Seat width, fir in. .... 2 x 21.0/49.0  
 Headroom, fir ..... 37.5/33.5  
 Seat back adjustment, deg ..... 45

**CHASSIS & BODY**

Layout ..... front engine/rear drive  
 Body/frame ..... unit steel  
 Brake system ..10.0-in. vented discs front, 9.8 x 1.57-in. drums rear; vacuum assisted  
 Swept area, sq in. .... 293  
 Wheels ..... cast alloy, 13 x 5HJ  
 Tires .... Michelin XVS, 185/170HR-13  
 Steering type ..... rack & pinion  
 Overall ratio ..... 21.1:1  
 Turns, lock-to-lock ..... 4.1  
 Turning circle, ft ..... 31.2  
 Front suspension: MacPherson struts, lower lateral links, anti-roll bar as longitudinal links, coil springs, tube shocks  
 Rear suspension: semi-trailing arms, coil springs, tube shocks, anti-roll bar

**INSTRUMENTATION**

Instruments: 120-mph speedo, 8000-rpm tach, 999,999 odo, 999.9 trip odo, coolant temp, fuel level, clock  
 Warning lights: oil press., brake system, alternator, fuel level, rear-window heat, hazard, seatbelts, high beam, directionals

**MAINTENANCE**

Service intervals, mi:  
 Oil change ..... 6000  
 Filter change ..... 6000  
 Chassis lube ..... none  
 Tuneup ..... 12,500  
 Warranty, mo/mi ..... 12/ unlimited

**CALCULATED DATA**

Lb/bhp (test weight) ..... 27.1  
 Mph/1000 rpm (4th gear) ..... 18.2  
 Engine revs/mi (60 mph) ..... 3300  
 Piston travel, ft/mi ..... 1730  
 R&T steering index ..... 1.28  
 Brake swept area, sq in./ton .. 197

**RELIABILITY**

From R&T Owner Surveys the average number of problem areas for all models surveyed is 12. An average of 7 of these problem areas is considered serious enough to constitute reliability areas that could keep the car off the road. As owners of earlier-model BMWs reported 9 problem areas and 3 reliability areas we expect the overall reliability of the BMW 320i to be better than average.

## ROAD TEST RESULTS

**ACCELERATION**

Time to distance, sec:  
 0-100 ft ..... 4.0  
 0-500 ft ..... 10.4  
 0-1320 ft (1A mi) ..... 18.7  
 Speed at end of 1A mi, mph ..... 73.5  
 Time to speed, sec:  
 0-30 mph ..... 4.1  
 0-40 mph ..... 6.4  
 0-50 mph ..... 8.7  
 0-60 mph ..... 12.0  
 0-70 mph ..... 16.7  
 0-80 mph ..... 23.0  
 0-90 mph ..... 33.6

**SPEEDS IN GEARS**

4th gear (5700 rpm) ..... 104  
 3rd (6400) ..... 90  
 2nd (6400) ..... 59  
 1st (6400) ..... 31

**FUEL ECONOMY**

Normal driving, mpg ..... 21.5  
 Cruising range, mi (1-gal., res) ..... 320

**HANDLING**

Speed on 100-ft radius, mph .. 33.0  
 Lateral acceleration, g ..... 0.726  
 Speed thru 700-ft slalom, mph .. 55.1

**BRAKES**

Minimum stopping distances, ft:  
 From 60 mph ..... 167  
 From 80 mph ..... 288  
 Control in panic stop ..... very good  
 Pedal effort for 0.5g stop, lb ..... 25  
 Fade: percent increase in pedal effort to maintain 0.5g deceleration in 6 stops from 60 mph ..... 60  
 Parking: hold 30% grade? ..... no  
 Overall brake rating ..... very good

**INTERIOR NOISE**

All noise readings in dBA:  
 Idle in neutral ..... 51  
 Maximum, 1st gear ..... 85  
 Constant 30 mph ..... 62  
 50 mph ..... 68  
 70 mph ..... 76  
 90 mph ..... 81

**SPEEDOMETER ERROR**

30 mph indicated is actually ..... 30.0  
 50 mph ..... 50.0  
 60 mph ..... 60.0  
 70 mph ..... 70.0  
 80 mph ..... 80.0  
 Odometer, 10.0 mi ..... 10.0

## ACCELERATION

