



# The fastest—and most economical BMW in production in South Africa is a true luxury car, as well

This is South Africa's fastest production BMW – even faster than the fabled 530 – and one of the most spectacular road cars available to South African motorists.

Introducing the 160 kW 3,5-litre engine of the "7 Series" flagship, with fuel injection and overdrive-style fivespeed gearbox, the new M535i (that "M" is for "Motor Sport") is a carefullybalanced compromise between outright performance and practical everyday motoring requirements.

It can black-stripe away from rest, with the limited-slip diff provoking tyre smoke at both rear wheels, and it goes a shade over a true 200 km/h on a level road. Yet it cruises quietly and gently, has full air-conditioning, and can return fuel economy figures to rival some fourcylinder models.

## **NEW FEATURES**

The M535i is based on the 530 – which is replaced in local manufacture – with the handsome and efficient "5 Series" coachwork, and the kind of handling and ride which has made this range of fine cars famous. While it has little external difference from its sisters in the "5 Series" range, it is a sedan in the sports car class, and given a touch of distinction by big steel-belt radials on wide Mahle light alloy wheels with cross-spoke styling.

The all-independent suspension is uprated on this model, with heavier stabiliser bars front and rear and Bilstein gas-filled shockabsorbers, and it has a ZF 25 per cent limited-slip differential to give maximum traction.

It has much of the comfort of the top BMW Executive models, with custom air-conditioning, a programmable Pioneer radio/tape deck, central locking system, power windows, and Recaro sports seats. As a final touch, the steering wheel is from the racing M1 coupé.

## MUSCULAR MACHINERY

The new big-six 3,5-litre engine made its debut last year in the flagship BMW 735i Automatic (Car Road Test, August 1981) and is remarkable for its willingness and range, with up to 6 200 revs usable. It produces 160 kW at 5 200 revs, and is matched with long-legged

## **KEY FIGURES**

KEITIGOHEO
Maximum speed 206,3 km/h
1 km sprint 29,6 seconds
Terminal speed 175,5 km/h
Fuel tank capacity 70 litres
Litres/100 km at 80
Optimum fuel range at 80. 978 km
*Fuel Index
Engine revs per km 1 290
National list price R24 400
(iBased on ECE figures.)
(*Consumption at 80, plus 30%.)

gearing in this unusual performance car: a slick four-and-overdrive gearbox with an indirect top.

In the direct-drive fourth the car is geared for 37,8 km/h per 1 000 revs (which already is virtual overgearing) and goes to an amazing 46,4 km/h per 1 000 revs in 5th, which is a true "economy gear".

The clutch has a fairly heavy action, and bites well.

#### PERFORMANCE

The M535i is a more-refined car, and does not have the fiery character of the earlier 530 (CAR Road Test, January 1978). It is heavier, higher-geared, and loses some power to the air-conditioning plant under its bonnet.

But don't be deceived: it can still knock spots off almost anything else on the road in various aspects of performance. It can go from rest to 80 in 6,5 seconds, and to 100 (still in 2nd) in 9,3. It covers a kilometre from rest in 29,6 seconds, and has topped a true 175 by the time it crosses the line. Running in its direct-drive fourth, it registered a true 206,3 km/h on a level road, both ways, pulling more than its rated 5 200 revs.

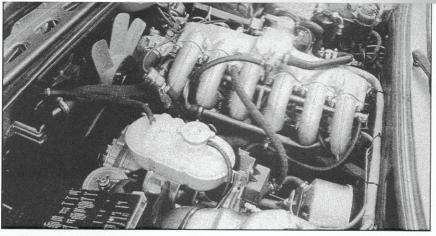
Understandably, there is not much pulling power in 5th (its gradient ability is 1-in-15,2) but this is a usable driving gear from about 60 km/h upwards – and is backed by tremendous climbing and overtaking ability in both 3rd and 4th.

The speedometer overreads by a reducing percentage as speed rises (4 per cent at 100, on the test car) and the rev-counter is extremely accurate right through the speed range.

## ECONOMY AND SOUND

We have based our fuel consumption tables and graphs on the official ECE (Economic Community of Europe) figures, and these show that the car has the potential for amazing fuel economy at steady speeds. It will achieve 7,16 litres/100 km at 80 and 8,20 at 90 – setting new standards for any BMW model in current production, and giving it an 800 km cruising range.

But a word of caution: while our Fuel Index comes out at 9,31 litres/ 100 km, it is highly unlikely that anyone will drive this high-performance car in sedate style, and the ECE "urban cycle" figure goes as high as 18,5 litres/100 km.



The 3,5-litre fuel injected motor produces 160 kW and is teamed with an overdrive-style 5-speed gearbox.

Somewhere between those two - in the region of 14,0 litres/100 km - is probably what owners can expect, with the bonus of special economy on long-distance trips.

Mechanical sound levels are very modest for a performance car, thanks both to good build and long-legged gearing. Road rumble is higher than we expected, but the average of 79,2 decibels at 100 is satisfactory.

## HANDLING AND BRAKING

The car's ride is not over-firm, but it is well-damped and there is no sloppy body movement in cornering and braking. We have always admired "5 Series" handling – BMW's best – and this new "5" flagship is a delight to drive and handle. Unlike most sports cars, it also has a commanding ride over dirt roads, and it takes loads with the best of family sedans.

Its brakes are high-performance, and the test car was even a shade over-braked at front. But it stopped firmly from high speeds, and braking actually improved as the discs warmed up.

### TEST SUMMARY

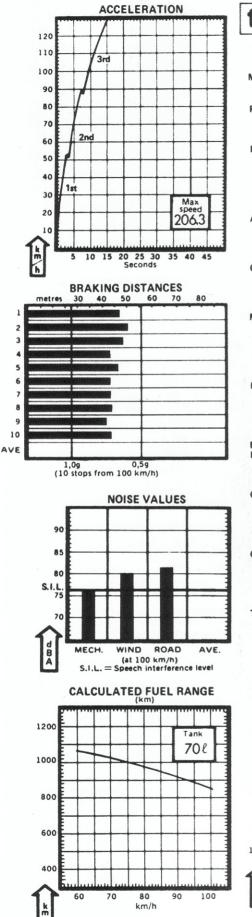
The new M535i is difficult to categorise. It's not a pure sports sedan like the 530, nor is it pure luxury car. To some extent, it combines the best elements of both, to produce a really fast car with a high standard of comfort and equipment.

But whatever one's feelings on these aspects, there's no denying that it is a magnificent car: a blend of vigour and glamour, and very different from the general run of cars in its price class.

## SPECIFICATIONS

	SFECIF
E	NGINE:
	Cylinders
	injection
	Bore/stroke 93,4/84,0 mm
	Cubic capacity
	Compression ratio
	Valve gear o-h-v, single o-h-c
	Ignition electronic
	Main bearings seven
	Fuel requirement98-octane Coast, 93-octane Reef
	Cooling water, thermo-coupled fan
E	NGINE OUTPUT:
	Max. power I.S.O. (kW) 160
	Power peak (r/min)
	Max. usable r/min 6 200
	Max. torque (N.m)
	Torque peak (r/min) 4 000
Т	RANSMISSION:
- 1	Forward speeds five (four and
	overdrive)
	Gearshift console
	Low gear
	2nd gear
	3rd gear
	4th gear direct
	Top gear 0,813 to 1
	Reverse gear
	Final drive
	ZF limited slip
v	Drive wheels rear VHEELS AND TYRES:
	Road wheels Mahle light alloy
	Rim width
	Tyres 195/70 VH 14 steel radials
	Tyre pressures (front) 220 to 260
	kPa
	Tyre pressures (rear) 250 to 290 kPa

ATIONS
BBAKES:
Front 280 mm discs, ventilated
Bear 272 mm discs
Rear
anti-lock at rear
Boosting vacuum servo
Handbrake position between front
seats
STEERING:
Type ZF variable-rate power-
assisted
Lock to lock 4,6 turns
Turning circle
MEASUREMENTS:
Length overall
Width overall 1,690 m
Height overall
Wheelbase
Front track
Rear track
Ground clearance 0,140 m
Licensing mass 1 400 kg
SUSPENSION:
Frontindependent
Type coil struts, stabiliser bar,
gas-filled shockabsorbers
Rear independent
Typecoils, semi-trailing arms,
stabiliser bar, gas-filled
shockabsorbers
CAPACITIES:
Seating
Fuel tank
WARRANTY:
12 months.
TEST CAR FROM:
BMW South Africa, Rosslyn, Pre-
toria.



test BMW M 535i five-speed	
PERFORMANCE	
MAKE AND MODEL: Make	
Model M 535i five-speed	
PERFORMANCE FACTORS: Power/mass (W/kg) net 114,3	
Frontal area (m <sup>2</sup> )	
INTERIOR NOISE LEVELS:	
Idling66,0	
Idling	4
Average dBA at 100 79,2 ACCELERATION (seconds):	
0.60	1
0-100	
OVERTAKING ACCELERATION: 3rd 4th Top	
40-60 36 52 76	
60-803,5 5,6 7,9 80-1003,3 5,6 8,8 MAXIMUM SPEED (km/h):	
True speed	
Tachometer reading 5 000 Speedometer reading 216	
Calibration: Indicated: 60 70 80 90 100 True speed: 55 65 75,5 86 96	
FUEL CONSUMPTION (Intres/100 km):	
60	
80	
BRAKING TEST:	
From 100 km/h Best stop	
Worst stop	
GRADIENTS IN GEARS: Low gear 1 in 2,2	
Low gear	
4th gear 1 in 9,3 Top gear 1 in 15,2	
Low gear	
3rd gear 140,4   4th gear 196,3   Top gear 241,5	
TEST CONDITIONS:	
Altitude	
Test car's odometer	

