Brava 1.4 12v

Technical Specification

	Engine
Main features No. of cylinders Position Cycle-stroke Bore x stroke Displacement Compression ratio Max. power output - EC at rpm Peak torque - EC at rpm Fuel required	4 in line front transverse Otto-4 82 x 64.87 mm 1370 cc 9.85 : 1 80 bhp (59 kW) 6000 11.4 kgm (112 Nm) 2750 unleaded petrol min.95 octane (RON)
Structure Model Cylinder spacing Main bearings Cylinder block Cylinder head	182A3.000 90 mm 5 cast iron light alloy
Timing gear Number of valves and position Timing Timing control Valve gear timing - Inlet {opens closes - Exhaust {opens closes	in line, inclined 00° with 3 valves per cylinder SOHC with rocker arms and hydraulic tappets toothed belt with tappet play 0.45 mm 3° BTDC 30° ABDC 34° BBDC 2° ATDC
Ignition Fire order Idling advance Spark plugs	electronic static advance, combined with injection 1-3-4-2 7° NGK BKR 6EKC Golden Lodge 2HLDR
Fuel feed Type Petrol pump Air filter Injection pressure	SPI Bosch Monomotronic electronic electric dry-type with paper cartridge and thermostatic adjustment 1 bar
Emission control	three-way catalytic converter and lambda probe
Lubrication Type Oil filter	forced-feed with geared pump and pressure relief valve cartridge type, total flow
Cooling Type Control Fan	liquid cooling, with radiator, centrifugal pump and supplementary expansion tank with "controlled by-pass" thermostat on secondary circuit electric with engagement governed by thermostat on radiator

Transmission				
Drive		to front wheels		
Clutch		dry, single plate, with disc engagement spring, mechanical control and contact bearing		
Diameter of driven plate		190 mm		
(OD x ID)		190 x 134 mm		
Gearbox		5 speeds		
Transmission ratios	ſ 1st	3.909 : 1		
	2nd	2.158:1		
	{ 3rd	1.480 : 1		
	4th	1.121:1		
	Sth	3,818 • 1		
	L Reverse	3.010.1		
Differential assembly		in gearbox		
Final drive	{ type	cylindrical, helical		
	l ratio (no. of teeth)	3.867 : 1 (15/56)		

	Chassis ———		
Braking system	front discs, with floating calipers; rear drums, with self-centring shoes and automatic wear adjustment. Pedal control, with vacuum servo, split-line diagonally linked hydraulic circuits, and brake regulator on rear brake hydraulic circuit. 4-channel, 4-sensor ABS on request		
Front discs – diameter – total lining area	257 mm 156.8 cm²		
Rear drums – diameter – linings: width x length – total lining area Parking brake	180 mm (203 mm with ABS) 30 x 146 mm (38 x 165 mm with ABS) 176 cm ² (248 cm ² with ABS) acting on rear wheels with manual control and mechanical transmission		
Front suspension Flexibility at the wheel Wheel wobble { Upper Lower Dampers Front wheel geometry unladen: - camber - caster - toe-in	independent wheel MacPherson struts with transverse lower wishbones anchored to an auxiliary cross member, offset coil springs and anti-roll bar 0.54 mm/kg 70 mm 85 mm hydraulic, telescoping, dual action $-7' \pm 30'$ $3^{\circ}30' \pm 30' (2^{\circ}50' \pm 30' with ABS)$ + 1 to -1 mm		
Rear suspension Flexibility at the wheel Wheel wobble { upper lower Dampers	independent wheel, with trailing arms anchored to an auxiliary cross member, coil springs and anti-roll bar 0.54 mm/kg 80 mm 110 mm gas with vulcanised bushes		
Rear wheel geometry unladen: – camber – toe-in	-1° ± 30' -2,5 to +1,5 mm		
Steering Steering column Turning circle Steering wheel turns (lock to lock)	rack and pinion with power steering (SX) collapsible, energy absorbing with angular adjustment 10.4 m 3.5 (3 with power steering)		

Rims (in pressed steel) Tyres	5 ¹ / ₂ J x 14"-32 (5 ¹ / ₂ J x 14"-37 with power steering) 165/65 R 14 78T (175/65 R 14 82T with power steering)	
Inflation pressure – front – rear (*) at constant high speed fully laden	2.2 bar 2.3* bar 2.1 bar 2.5* bar	
Mini spare wheel Rim Tyre Inflation pressure Max. speed permissible	4 B x 14"-43 105/70 R 14 84M 4.2 bar 80 km/h	
Elect	rical equipment	
Voltage Alternator: DC supply Starter motor Battery: capacity	12 V 65 A (85 A with climate control) 0.9 kW 40 Ah	
	- Weights	
Kerb weight (DIN) (*) Distribution { front rear	1040 kg 58.6% 41.4%	
Weight fully laden Distribution Max. payload (including driver) Max. load towable No. of seats ') Car ready for the road (full fuel tank, liquids, spare wheel and a	850 kg 850 kg 1570 kg 530 kg 1000 kg 5 ccessories)	
P	erformance	
Top speed Speed with engine at 1,000 rpm Weight/power ratio { kg/bhp-EC kg/kW-EC	170 km/h 24.4 km/h (in 4th) 13 17.6	
Max. gradient negotiable (fully laden)	36%	
Acceleration (2 adults + 20 kg) (secs.) - 0 to 100 km/h - 0 to 1000 m	13.9 35.3	
Pick-up from 40 km/h (2 adults + 20 kg) (secs.) - over 1000 m	37.5 (in 4th)	
Conventional fuel consumption (I/100 km) - at 90 km/h	5.3 7	

	dm ³ (litres)	kg
Fuel tank	50	-
including a reserve of:	7	-
Radiator, engine, expansion tank		
and heating system fluid	6.0 (5.6 with clim.contr.)	-
Engine sump and filter oil	4.1	3.7
Total engine sump, filter and circuit oil	4.3	3.8
Gearbox and differential oil	-	1.5
Steering and power steering oil	-	0.08 (0.8 with power steering
Braking circuit oil	0,40 (0.45 with ABS)	-
Screenwasher bottle (front and rear)	2.5 to 5 (6.8 with headlight washers)	

