

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling systemMalaga 1.21987 to 1992

Type		021-A-1000
Capacity (cm³) / number of cylinders		1193 / 4
Compression ratio / pressure	bar	9.5 / ≥11.5
Oil pressure	bar	1.0 [3.5 to 4.0]
Oil temperature	°C	100
Valve clearance - inlet	mm	0: Hyd.
- exhaust	mm	0: Hyd.
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	81 to 85
Radiator cap pressure	bar	1.0

Fuel systemMalaga 1.21987 to 1992

Idle speed - manual [auto]	rpm	925
Fast idle speed - manual [auto]	rpm	2600
CO @ idle speed [3000 rpm] - see page VI	%	2.0
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		Pierburg
Type / ref		36 1B3
Main jet / needle		120
Injection pressure	bar	—
Pump pressure	bar	0.2 to 0.3
Octane rating	RON	90[E 91 RON]

Ignition systemMalaga 1.21987 to 1992

Type		Electronic - Hall effect¹
Ignition coil		Bosch. Marelli. TZ18H
Primary resistance	ohms	0.75 to 0.81
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	10.0
Distributor		Bosch/Marelli
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	5 BTDC @ 925
V = Vacuum NV = No Vacuum		V
Total ignition advance	° Crankshaft @ rpm	46±4 BTDC @ 5200
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	0 to 5 @ 1400
	° Crankshaft @ rpm	16 to 21 @ 3000
	° Crankshaft @ rpm	28 to 32 @ 5200
Vacuum range check	mbar	160 to 493
Maximum vacuum advance	° Crankshaft	14 to 18
Spark plugs		Bosch/Champion
Type		F5DC / C7YC
Electrode gap	mm	0.80 to 0.90²

Electrical systemMalaga 1.21987 to 1992

Battery	V / CC / RC	12 / 45Ah
Alternator voltage / full load current / engine rpm		13.7 / _ / 3000
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	340 / 7.0

Running gearMalaga 1.21987 to 1992

Brakes -		
Front (min. friction material thickness)	mm	1.5
Rear (min. friction material thickness)	mm	1.5

Tyres		
Saloon	Size	155x13: 165/65x14: 165/70x13
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.0 / 1.9
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+2.0 to 4.0
Camber		-15' to -1°15'
Castor		0 to +1°45'
King pin inclination		—

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+2.0 to 6.0
Camber		+51' to 1°51'

Torque wrench settingsMalaga 1.21987 to 1992

Cylinder head - stage 1	Nm	20³
- stage 2	Nm	+ 90°³
- stage 3	Nm	+ 90°³
- stage 4	Nm	—
Big-end bearings	Nm	55±5
Main bearings	Nm	85±5
Clutch cover	Nm	30
Flywheel [driveplate]	Nm	85
Front hubs	Nm	216
Rear hubs	Nm	216
Wheel nuts / bolts	Nm	Alloy: 78. Steel: 86
Spark plugs	Nm	32

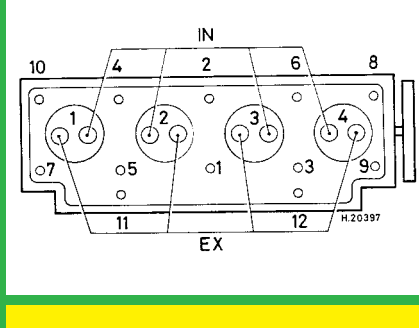
CapacitiesMalaga 1.21987 to 1992

Engine oil & filter	litres	4.1
Gearbox - 4-speed [5-speed]	litres	3.4
Automatic transmission - refill	litres	—
Final drive	litres	WT
Cooling system	litres	7.5
Fuel tank	litres	47

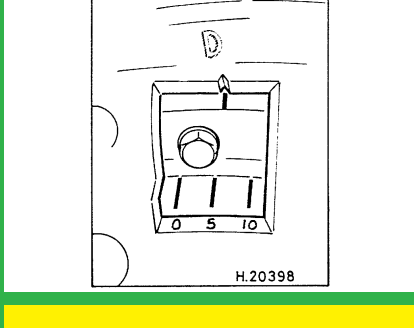
Notes and Illustrations

- ¹Bosch TSZ-h
- ²Bosch only. Champion: 0.70 to 0.80
- ³Bolts 1 to 10 only. Finally tighten bolts 11 & 12 to 20

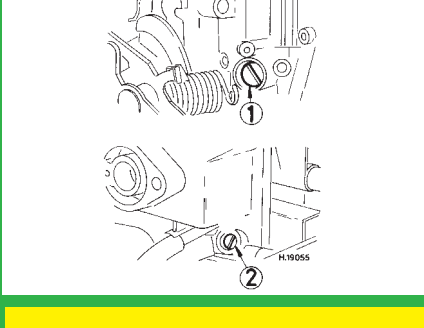
1: Idle speed2: CO / Mixture



1193 cm³



1193 cm³



Pierburg 1B3