

Engine & Cooling

Fuel

Ignition

Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

Click on one of the buttons above to view data for this car. To return to this screen and make another choice, click anywhere on the data screen.

MENU

HELP

Engine and cooling systemMalaga 1.51987 to 1989

Type		021-A-2000
Capacity (cm³) / number of cylinders		1461 / 4
Compression ratio / pressure	bar	10.5 / ≥13.5
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 1.51987 to 1989

Idle speed - manual [auto]	rpm	850±50
Fast idle speed - manual [auto]	rpm	—
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		Bressel-Weber
Type / ref		32 DSTA/150
Main jet / needle		107, 100
Injection pressure	bar	—
Pump pressure	bar	0.2 to 0.3
Octane rating	RON	96[E 95 RON]

Ignition systemMalaga 1.51987 to 1989

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	7 BTDC @ 850
V = Vacuum NV = No Vacuum		V
Total ignition advance	° Crankshaft @ rpm	34±4 BTDC @ 4500
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	0 to 5 @ 1200
	° Crankshaft @ rpm	12 to 17 @ 3000
	° Crankshaft @ rpm	20 to 24 @ 4500
Vacuum range check	mbar	173 to 320
Maximum vacuum advance	° Crankshaft	10 to 14
Spark plugs		Bosch/Champion
Type		F5DC / C7YC
Electrode gap	mm	0.80 to 0.90²

Electrical systemMalaga 1.51987 to 1989

Battery	V / CC / RC	12 / 45Ah
Alternator voltage / full load current / engine rpm		14.0 / _ / 3000
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	340 / 7.0

Running gearMalaga 1.51987 to 1989

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

Tyres		
Saloon	Size	155x13: 165/65x14
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 1.51987 to 1989

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

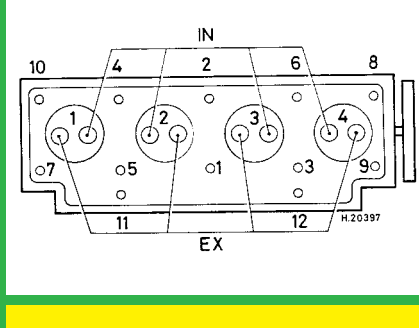
CapacitiesMalaga 1.51987 to 1989

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

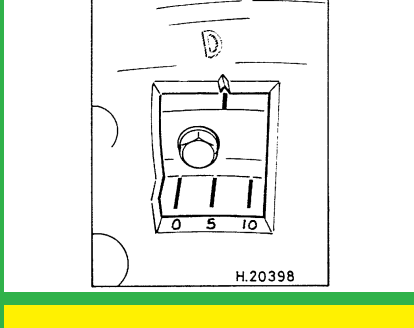
Notes and Illustrations

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

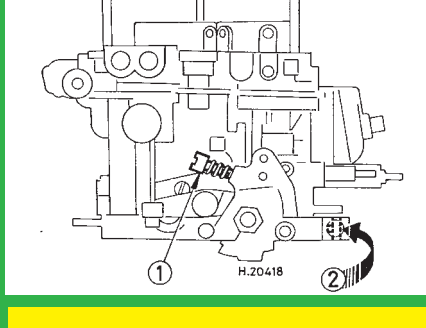
1: Idle speed2: CO / Mixture



1461 cm³



1461 cm³



32 DSTA