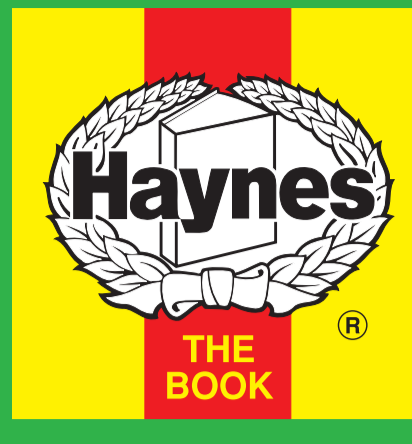


Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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Automotive Technical DATA BOOK

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 system 1.3, 313, 413, 513 1981 to 1988

Type		128A6. 064
Capacity (cm ³) / number of cylinders		1301 / 4
Compression ratio / pressure	bar	9.2 / _
Oil pressure	bar	[3.5 to 4.8]
Oil temperature	°C	100
Valve clearance - inlet	mm	0.35 to 0.55
- exhaust	mm	0.45 to 0.55
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	82±2
Radiator cap pressure	bar	0.8

Fuel system 1.3, 313, 413, 513 1981 to 1988

Idle speed - manual [auto]	rpm	850±50
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	2.0 to 4.0. 85 ▶: 1.0 to 2.0
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO ₂ @ idle speed [3000 rpm] - see page VI	%	_
O ₂ @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		IPM/Weber
Type / ref		32 MGV 22/250 or 25/250 ¹
Main jet / needle		22/250: 122. 25/250: 120 ²
Injection pressure	bar	_
Pump pressure	bar	0.20 to 0.25
Octane rating	RON	97[E 95 RON]

Ignition system 1.3, 313, 413, 513 1981 to 1988

Type		Contact breaker - CIS
Ignition coil		Iskra
Primary resistance	ohms	2.6 to 4.0 (typical)
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Rudi Cajavec
Points gap (air gap)	mm	0.37 to 0.43
Dwell angle	° (%)	55±3
Condenser capacity	µF	0.22 to 0.27
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	5 BTDC @ 850±50
V = Vacuum NV = No Vacuum		V
Total ignition advance	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	12 to 16 @ 2000
	° Crankshaft @ rpm	18 to 22 @ 3000
	° Crankshaft @ rpm	26 to 30 @ 4700
Vacuum range check	mbar	_
Maximum vacuum advance	° Crankshaft	_
Spark plugs		Marelli/Champion
Type		CW240LP / RN9YC
Electrode gap	mm	0.50 to 0.60

Electrical system 1.3, 313, 413, 513 1981 to 1988

Battery	V / CC / RC	12 / 45Ah
Alternator voltage / full load current / engine rpm		14.0 / _ / 2500
Starter motor current / voltage - cranking	A / V	198 / 9.1
- locked	A / V	315 / 7±0.3

Running gear 1.3, 313, 413, 513 1981 to 1988

Brakes -		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	2.0

Tyres		
Saloon	Size	145x13: 155x13
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	1.6 / 1.8
- Estate / Van	bar	_

Front suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	0±1.0 L
Camber		+1°25'±30' L
Castor		+2°15'±30' L
King pin inclination		_

Rear suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	+3.0 to 7.0
Camber		-3°±30'

Torque wrench settings 1.3, 313, 413, 513 1981 to 1988

Cylinder head - stage 1	Nm	93
- stage 2	Nm	_
- stage 3	Nm	_
- stage 4	Nm	_
Big-end bearings	Nm	51
Main bearings	Nm	80
Clutch cover	Nm	16
Flywheel [driveplate]	Nm	83
Front hubs	Nm	137
Rear hubs	Nm	137
Wheel nuts / bolts	Nm	86
Spark plugs	Nm	37

Capacities 1.3, 313, 413, 513 1981 to 1988

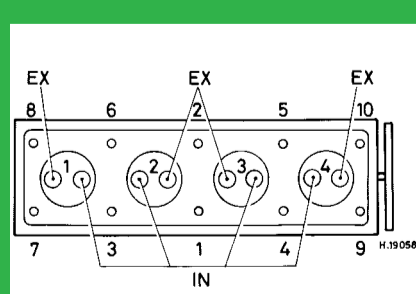
Engine oil & filter	litres	4.5
Gearbox - 4-speed [5-speed]	litres	3.2
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	6.5
Fuel tank	litres	38

Notes and Illustrations

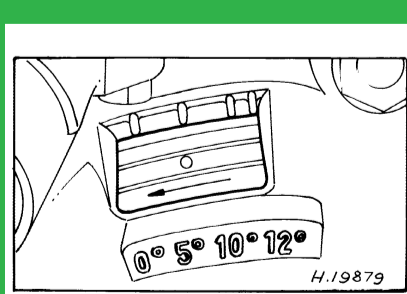
¹Weber 32 ICEV 22/250

²Weber as IPM

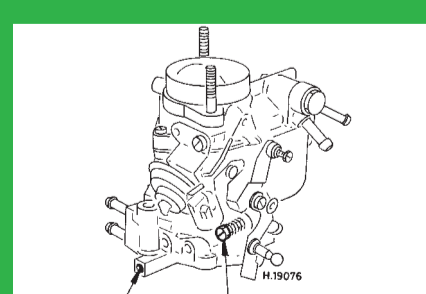
1: Idle speed 2: CO / Mixture



1301 cm³



1301 cm³



Weber 32 ICEV / IPM 32 MGV