Haynes THE BOOK

Automotive Technical DATA BOOK

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Engine and cooling system — Sana 1.4 — 1989 to 1993

Type		SOHC
Capacity (cm³) / number of cylinders		1372 / 4
Compression ratio / pressure	bar	9.2 / _
Oil pressure	bar	[3.5 to 4.8]
Oil temperature	ºC	100
Valve clearance - inlet	mm	0.40±0.05
- exhaust	mm	0.50±0.05
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	ºC	85 to 89
Radiator cap pressure	bar	0.98

Fuel system — Sana 1.4 — 1989 to 1993

Idle speed - manual [auto]	rpm	850±50
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	1.0±0.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤400
CO2 @ idle speed [3000 rpm] - see page VI	%	_
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Weber
Type / ref		32-34 TLDE 4/150
Main jet / needle		110, 130
Injection pressure	bar	_
Pump pressure	bar	0.18
Octane rating	RON	97[E 95 RON]

Ignition system — Sana 1.4 — 1989 to 1993

Type		Electronic
Ignition coil		Iskra
Primary resistance	ohms	0.66 to 0.84
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	Battery
Distributor		Rudi Cajavec/Marelli
Points gap (air gap)	mm	[0.30 to 0.50]
Dwell angle	º (%)	Variable
Condenser capacity	µF	_
Rotation		Clockwise
Ignition timing - basic [static	º Crankshaft @ rpm	10±2 BTDC @ 850±50
V = Vacuum NV = No Vacuum		NV
Total ignition advance	º Crankshaft @ rpm	_
	º Crankshaft @ rpm	_
	º Crankshaft @ rpm	_
Centrifugal check.	º Crankshaft @ rpm	9±2 @ 2550
	º Crankshaft @ rpm	15±2 @ 4000
	º Crankshaft @ rpm	19±2 @ 5250
Vacuum range check	mbar	200 to 466
Maximum vacuum advance	º Crankshaft	13 to 17
Spark plugs		Champion
Type		RN9YC
Electrode gap	mm	0.70 to 0.80

Electrical system — Sana 1.4 — 1989 to 1993

Battery	V / CC / RC	12 / 55Ah
Alternator voltage / full load current / engine rpm		14.0 / _ / 2500
Starter motor current / voltage - cranking	A / V	175 / 9.4
- locked	A / V	300 to 330 / 7.2

Running gear — Sana 1.4 — 1989 to 1993

Brakes -		
Front (min. friction material thickness)	mm	1.5
Rear (min. friction material thickness)	mm	1.5
Tyres		
Saloon	Size	165/70x13
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	1.7 / 1.9
- Estate / Van	bar	_
Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [º]	0±1.0 L
Camber		+1°±30' L
Castor		+2°40'±30' L
King pin inclination		_
Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [º]	_
Camber		+1°25'±20' L

Torque wrench settings — Sana 1.4 — 1989 to 1993

Cylinder head - stage 1	Nm	20
- stage 2	Nm	40
- stage 3	Nm	+ 90°
- stage 4	Nm	+ 90°[1]
Big-end bearings	Nm	51
Main bearings	Nm	80
Clutch cover	Nm	17
Flywheel [driveplate]	Nm	83
Front hubs	Nm	216
Rear hubs	Nm	137
Wheel nuts / bolts	Nm	86
Spark plugs	Nm	37

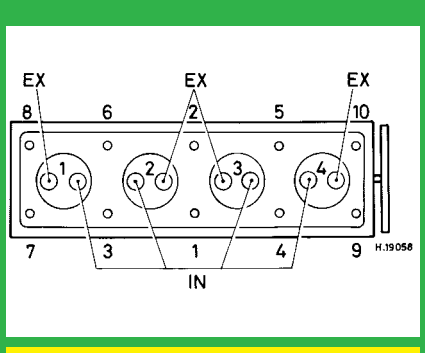
Capacities — Sana 1.4 — 1989 to 1993

Engine oil & filter	litres	4.25
Gearbox - 4-speed [5-speed]	litres	3.5
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	7.5
Fuel tank	litres	48

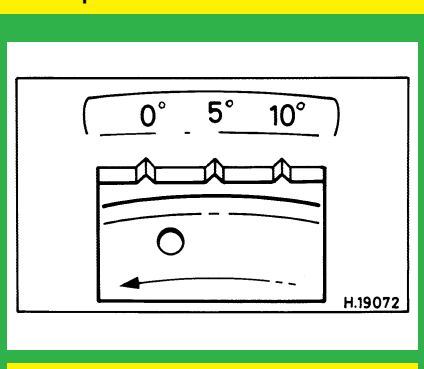
Notes and Illustrations

[1] **8.0 mm bolts: 30**

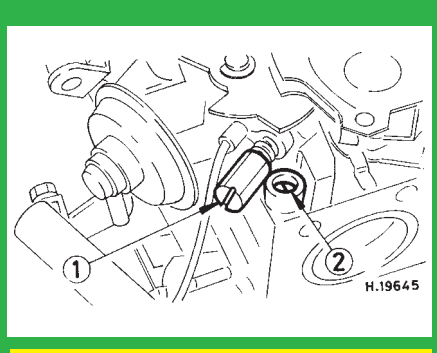
1: Idle speed 2: CO / Mixture



1372 cm³



1372 cm³



Weber 32-34 TLDE