

Engine & Cooling

Fuel

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Automotive Technical
DATA BOOK

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Engine and cooling system323, 1.31989 to 1991

Type	B3. SOHC 16V	
Capacity (cm³) / number of cylinders	1324 / 4	
Compression ratio / pressure	bar	9.4 / ≥9.5
Oil pressure	bar	[3.0 to 4.0]
Oil temperature	°C	—
Valve clearance - inlet	mm	0.30 H
Valve clearance - exhaust	mm	0.30 H
Firing order	1-3-4-2	
No 1 cylinder position	TBE	
Thermostat opening temperature	°C	80.5 to 83.5
Radiator cap pressure	bar	0.76 to 1.04

Fuel system323, 1.31989 to 1991

Idle speed - manual [auto]	rpm	850 to 900
Fast idle speed - manual [auto]	rpm	1250 to 1750
CO @ idle speed [3000 rpm] - see page VI	%	≤0.3
HC @ idle speed [3000 rpm] - see page VI	ppm	≤200
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection	Aisan	
Type / ref	28-32 2V Downdraught	
Main jet / needle	97, 162	
Injection pressure	bar	—
Pump pressure	bar	0.28 to 0.35
Octane rating	RON	91[E 91 RON]

Ignition system323, 1.31989 to 1991

Type	Electronic	
Ignition coil	—	
Primary resistance	ohms	0.77 to 0.95
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor	—	
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation	—	
Ignition timing - basic [static	° Crankshaft @ rpm	0±1 BTDC @ idle
V = Vacuum NV = No Vacuum	NV	
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	0 @ 1200
	° Crankshaft @ rpm	12 to 16 @ 2700
	° Crankshaft @ rpm	16 to 20 @ 3600
Vacuum range check	mbar	133 to 454
Maximum vacuum advance	° Crankshaft	12 to 16
Spark plugs	NGK/Champion	
Type	BKR5E, 6E / RC9YC	
Electrode gap	mm	0.70 to 0.80

Electrical system323, 1.31989 to 1991

Battery	V / CC / RC	12 / 50Ah
Alternator voltage / full load current / engine rpm	14.1 to 14.7 / _ / 2500	
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gear323, 1.31989 to 1991

Brakes -		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	1.0

Tyres		
Saloon	Size	155x13
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.0 / 1.8
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+2.0±3.0
Camber	-05'±45'	
Castor	+2°5'±45'	
King pin inclination	+12°25'	

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+2.0±3.0
Camber	-20'±45'	

Torque wrench settings323, 1.31989 to 1991

Cylinder head - stage 1	Nm	40
- stage 2	Nm	76 to 81
Cylinder head - stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	29 to 34
Main bearings	Nm	54 to 59
Clutch cover	Nm	18 to 26
Flywheel [driveplate]	Nm	96 to 103
Front hubs	Nm	235 to 319
Rear hubs	Nm	177 to 235
Wheel nuts / bolts	Nm	118
Spark plugs	Nm	15 to 23

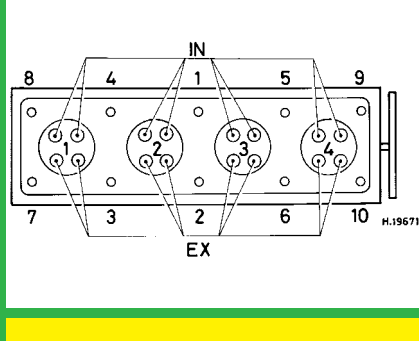
Capacities323, 1.31989 to 1991

Engine oil & filter	litres	3.2
Gearbox - 4-speed [5-speed]	litres	2.7
Automatic transmission - refill	litres	—
Final drive	litres	WT
Cooling system	litres	5.0
Fuel tank	litres	55

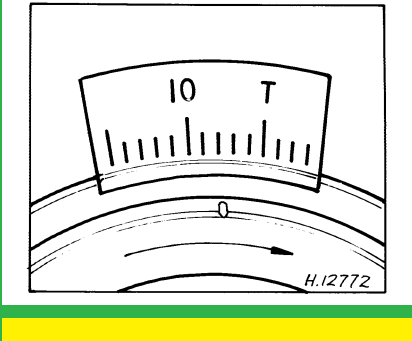
Notes and Illustrations



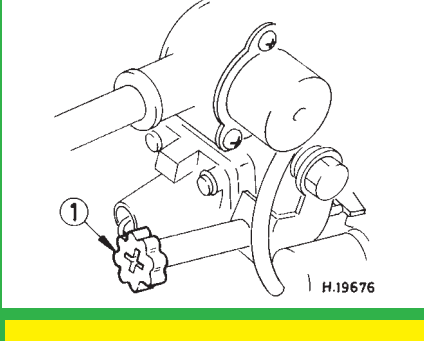
1: Idle speed 2: CO / Mixture



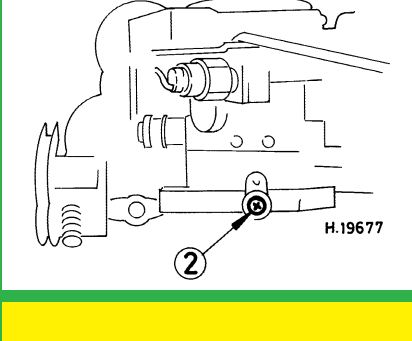
1324 cm³, 16V



1324 cm³, 16V, fwd



Aisan 28-32, 16V



Aisan 28-32, 16V