

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling system

504, 1.8 Pick-up

1985 to 1994

Type		XM7 (105A) 53kW
Capacity (cm³) / number of cylinders		1796 / 4
Compression ratio / pressure	bar	8.8 / _
Oil pressure	bar	2.7 [3.8]
Oil temperature	°C	90
Valve clearance - inlet	mm	0.10
Valve clearance - exhaust	mm	0.25
Firing order		1-3-4-2
No 1 cylinder position		FE
Thermostat opening temperature	°C	75
Radiator cap pressure	bar	0.8

Fuel system

504, 1.8 Pick-up

1985 to 1994

Idle speed - manual [auto]	rpm	900 to 950
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	%	≥10.0
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Solex
Type / ref		34 BICSA-3 A299
Main jet / needle		140±2.5
Injection pressure	bar	_
Pump pressure	bar	0.33
Octane rating	RON	91[L] ¹

Ignition system

504, 1.8 Pick-up

1985 to 1994

Type		Electronic
Ignition coil		Ducellier, SEV
Primary resistance	ohms	0.82
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Ducellier
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	6 BTDC @ idle
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	M130E
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	3 to 7 @ 1000
	° Crankshaft @ rpm	21 to 25 @ 3000
	° Crankshaft @ rpm	30 to 34 @ 5000
Vacuum range check	mbar	160 to 400
Maximum vacuum advance	° Crankshaft	18 to 22
Spark plugs		Bosch/Champion
Type		W7DC / RN9YCC
Electrode gap	mm	0.65 88 ►:0.80

Electrical system

504, 1.8 Pick-up

1985 to 1994

Battery	V / CC / RC	12 / 210 / 65
Alternator voltage / full load current / engine rpm		13.8 to 14.8 / _ / 3000
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gear

504, 1.8 Pick-up

1985 to 1994

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

Tyres		
Saloon	Size	_
Estate / Van	Size	185x15
Pressure - front / rear - Saloon	bar	_
- Estate / Van	bar	1.6 / 4.0 ²

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+2.2±1.0
Camber		+45'±30'
Castor		+1°30'±45'
King pin inclination		+8°54'±30'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	0
Camber		0

Torque wrench settings

504, 1.8 Pick-up

1985 to 1994

Cylinder head - stage 1	Nm	50 ³
- stage 2	Nm	Slacken, then 20 ³
Cylinder head - stage 3	Nm	+ 90° ³
- stage 4	Nm	Repeat from S2 after warm up ³
Big-end bearings	Nm	40
Main bearings	Nm	75
Clutch cover	Nm	15
Flywheel [driveplate]	Nm	68
Front hubs	Nm	WSM
Rear hubs	Nm	250
Wheel nuts / bolts	Nm	Steel: 60
Spark plugs	Nm	23

Capacities

504, 1.8 Pick-up

1985 to 1994

Engine oil & filter	litres	4.5
Gearbox - 4-speed [5-speed]	litres	1.2 [1.9]
Automatic transmission - refill	litres	_
Final drive	litres	1.6
Cooling system	litres	7.8
Fuel tank	litres	64

Notes and Illustrations

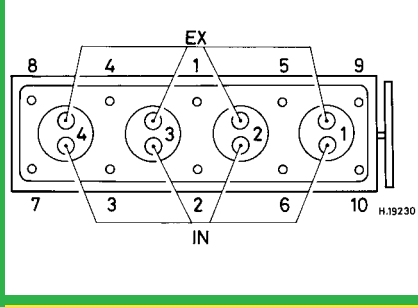
¹1986 ►: [E 95 RON]

²Varies according to tyre manufacturer

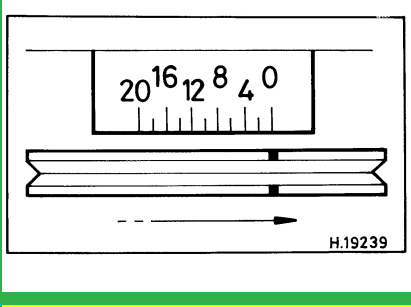
³VIN 3995 001 ►: 50, slacken, then 20 + 180°.Warm up, + 35

1: Idle speed

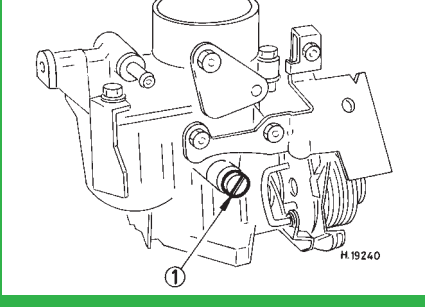
2: CO / Mixture



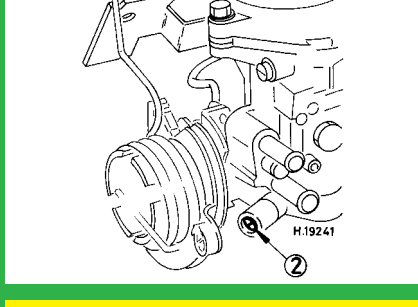
1796 cm³



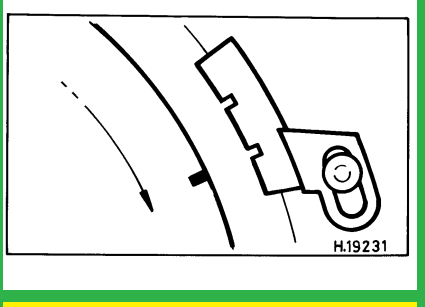
1796 cm³



Solex BICSA



Solex BICSA



1796 cm³, later