

Engine & Cooling

Fuel

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Automotive Technical
DATA BOOK

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HELP

Engine and cooling systemVisa 10E1985 to 1989

Type	XV8 (108C)	
Capacity (cm ³) / number of cylinders	954 / 4	
Compression ratio / pressure	bar	9.3 / _
Oil pressure	bar	[3.0]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.10 to 0.15
Valve clearance - exhaust	mm	0.20 to 0.30
Firing order	1-3-4-2	
No 1 cylinder position	FE	
Thermostat opening temperature	°C	82
Radiator cap pressure	bar	0.80

Fuel systemVisa 10E1985 to 1989

Idle speed - manual [auto]	rpm	700±50
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	_
HC @ idle speed [3000 rpm] - see page VI	ppm	_
CO2 @ idle speed [3000 rpm] - see page VI	%	_
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection	Solex	
Type / ref	32 PBISA 12 370	
Main jet / needle	122	
Injection pressure	bar	_
Pump pressure	bar	_
Octane rating	RON	94[E 95 RON]

Ignition systemVisa 10E1985 to 1989

Type	Electronic	
Ignition coil	Ducellier, Bosch	
Primary resistance	ohms	0.7 to 0.94
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	12.0
Distributor	Bosch/Ducellier	
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation	Clockwise	
Ignition timing - basic [static	° Crankshaft @ rpm	6 BTDC @ 700
V = Vacuum NV = No Vacuum	NV	
Total ignition advance	° Crankshaft @ rpm	M160E
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	0 to 6 @ 1200
	° Crankshaft @ rpm	21 to 25 @ 3000
	° Crankshaft @ rpm	31 to 35 @ 4100
Vacuum range check	mbar	100 to 600
Maximum vacuum advance	° Crankshaft	22 to 26
Spark plugs	Bosch/Champion	
Type	H7DC / S281YC	
Electrode gap	mm	0.60 to 0.70

Electrical systemVisa 10E1985 to 1989

Battery	V / CC / RC	12 / _
Alternator voltage / full load current / engine rpm	13.5 / _ / 4000	
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gearVisa 10E1985 to 1989

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

Tyres		
Saloon	Size	145x13
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	1.7 / 1.9
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	0 to +2.0
Camber	+34'±30'	
Castor	+1°54'±30'	
King pin inclination	+9°20'±40'	

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+1.0 to 4.0
Camber	-1°±30'	

Torque wrench settingsVisa 10E1985 to 1989

Cylinder head - stage 1	Nm	40
- stage 2	Nm	65 to 70 ¹
Cylinder head - stage 3	Nm	_
- stage 4	Nm	_
Big-end bearings	Nm	38
Main bearings	Nm	53
Clutch cover	Nm	_
Flywheel [driveplate]	Nm	68
Front hubs	Nm	250
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	60 to 80 ²
Spark plugs	Nm	10 to 13

CapacitiesVisa 10E1985 to 1989

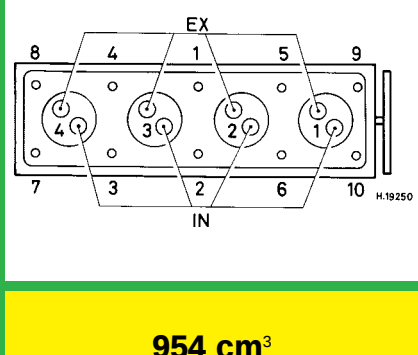
Engine oil & filter	litres	5.0
Gearbox - 4-speed [5-speed]	litres	With engine
Automatic transmission - refill	litres	_
Final drive	litres	With engine
Cooling system	litres	6.5
Fuel tank	litres	40

Notes and Illustrations

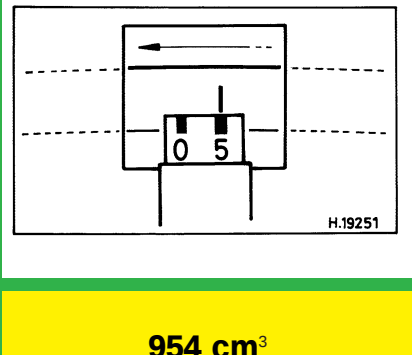
¹►44 200. 44 201 ►: 76

²Alloy: 75 to 85

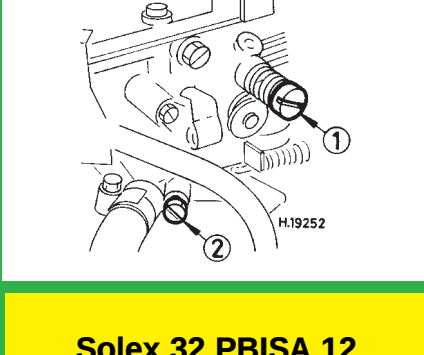
1: Idle speed 2: CO / Mixture



954 cm³



954 cm³



Solex 32 PBISA 12