

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling system8201988 to 1990

Type		M8 20 HD SOHC
Capacity (cm³) / number of cylinders		1994 / 4
Compression ratio / pressure	bar	9.0 / _
Oil pressure	bar	0.7 [3.8]
Oil temperature	°C	_
Valve clearance - inlet	mm	0.30 to 0.32
Valve clearance - exhaust	mm	0.30 to 0.32
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	88
Radiator cap pressure	bar	1.04

Fuel system8201988 to 1990

Idle speed - manual [auto]	rpm	775±25
Fast idle speed - manual [auto]	rpm	900 to 925
CO @ idle speed [3000 rpm] - see page VI	%	2.0 to 3.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO2 @ idle speed [3000 rpm] - see page VI	%	_
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		SU
Type / ref		HIF44E
Main jet / needle		0.100 / BGR
Injection pressure	bar	_
Pump pressure	bar	0.28 to 0.60
Octane rating	RON	97[E 95 RON]

Ignition system8201988 to 1990

Type		Computerized
Ignition coil		GCL 141
Primary resistance	ohms	0.71 to 0.81
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Lucas
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	17 to 20 BTDC @ 1500
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	37 to 42 BTDC @ 1500
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	Computer control
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Vacuum range check	mbar	Computer control
Maximum vacuum advance	° Crankshaft	_
Spark plugs		Unipart/Champion
Type		GSP4352 / N9YC
Electrode gap	mm	0.85

Electrical system8201988 to 1990

Battery	V / CC / RC	12 / 480 / 90
Alternator voltage / full load current / engine rpm		14.0 / _ / 3000
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gear8201988 to 1990

Brakes -		
Front (min. friction material thickness)	mm	8.2 with backing plate
Rear (min. friction material thickness)	mm	7.2 with backing plate

Tyres		
Saloon	Size	175x14: 195/70x14
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	1.7 / 1.7¹
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	[0±8']
Camber		+24'±1°12' N/A
Castor		+2°36'±2° N/A
King pin inclination		+8°±1°12' N/A

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	[+22'±12'] N/A
Camber		+13'±1°12' N/A

Torque wrench settings8201988 to 1990

Cylinder head - stage 1	Nm	45
- stage 2	Nm	80
Cylinder head - stage 3	Nm	+ 60°, or 108²
- stage 4	Nm	_
Big-end bearings	Nm	55
Main bearings	Nm	105
Clutch cover	Nm	26
Flywheel [driveplate]	Nm	85 [110]
Front hubs	Nm	290
Rear hubs	Nm	245
Wheel nuts / bolts	Nm	72
Spark plugs	Nm	18

Capacities8201988 to 1990

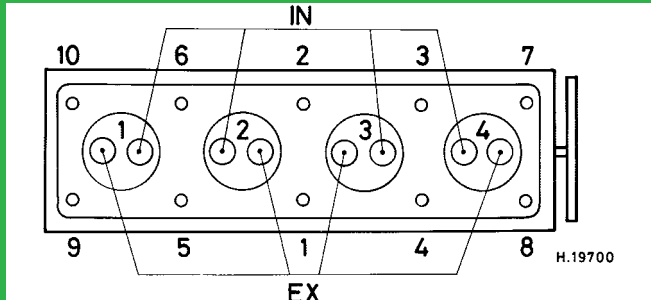
Engine oil & filter	litres	4.5
Gearbox - 4-speed [5-speed]	litres	2.3
Automatic transmission - refill	litres	2.0
Final drive	litres	WT
Cooling system	litres	8.3
Fuel tank	litres	68

Notes and Illustrations

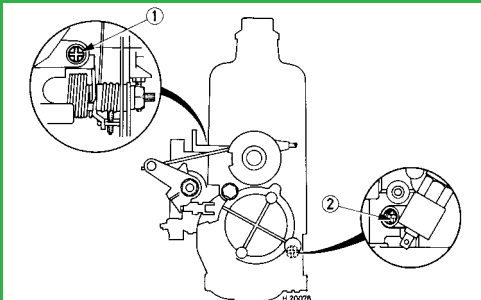
¹195/70x14: 1.8 / 1.8

²Whichever occurs first

1: Idle speed 2: CO / Mixture



1994 cm³, 8V



SU HIF44E