

Engine & Cooling

Fuel

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Automotive Technical
DATA BOOK

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HELP

Engine and cooling system2161989

Type		16HE 58
Capacity (cm ³) / number of cylinders		1598 / 4
Compression ratio / pressure	bar	9.2 / 10.3
Oil pressure	bar	1.0 to 1.3
Oil temperature	°C	—
Valve clearance - inlet	mm	0.35 to 0.38 ¹
Valve clearance - exhaust	mm	0.43 to 0.46 ¹
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	88
Radiator cap pressure	bar	1.04

Fuel system2161989

Idle speed - manual [auto]	rpm	750±50
Fast idle speed - manual [auto]	rpm	1200±50
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 / BFM
Injection pressure	bar	—
Pump pressure	bar	0.3
Octane rating	RON	97[E 95 RON]

Ignition system2161989

Type		Computerized
Ignition coil		Unipart 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	11 BTDC @ 1100
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	28±2 BTDC @ 1100
	° 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		GSP3526 or 4526 / RC9YC
Electrode gap	mm	0.85

Electrical system2161989

Battery	V / CC / RC	12 / 280 / 50
Alternator voltage / full load current / engine rpm		14.0 / _ / 3000
Starter motor current / voltage - cranking	A / V	65 /
- locked	A / V	425 to 450 / 7.0

Running gear2161989

Brakes -		
Front (min. friction material thickness)	mm	3.0
Rear (min. friction material thickness)	mm	2.0

Tyres		
Saloon	Size	165x13: 175/65x14: 175/70x13
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	1.9 / 1.8
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (—)	mm [°]	0±2.0
Camber		0±1°
Castor		+2°25'±1°
King pin inclination		+12°45'±30'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (—)	mm [°]	+2.0±2.0 PW
Camber		-45'±15'

Torque wrench settings2161989

Cylinder head - stage 1	Nm	40
- stage 2	Nm	81
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	—
Big-end bearings	Nm	45
Main bearings	Nm	90
Clutch cover	Nm	23
Flywheel [driveplate]	Nm	58
Front hubs	Nm	185
Rear hubs	Nm	185
Wheel nuts / bolts	Nm	81
Spark plugs	Nm	18

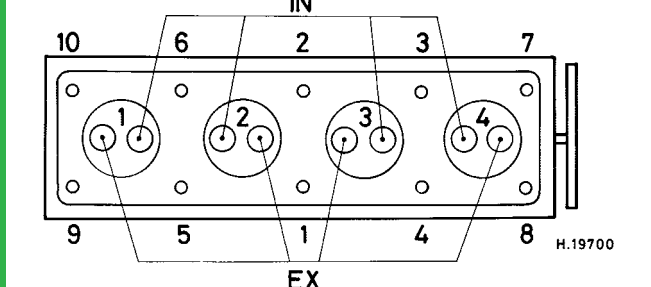
Capacities2161989

Engine oil & filter	litres	3.5
Gearbox - 4-speed [5-speed]	litres	2.2
Automatic transmission - refill	litres	2.0
Final drive	litres	WT
Cooling system	litres	6.4
Fuel tank	litres	46

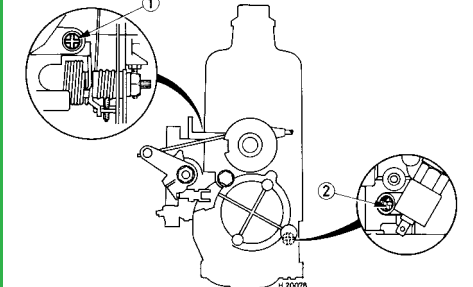
Notes and Illustrations

¹Adjust only if less than 0.30

1: Idle speed 2: CO / Mixture



1598 cm³



SU HIF44E