

Engine & Cooling

Fuel

Ignition

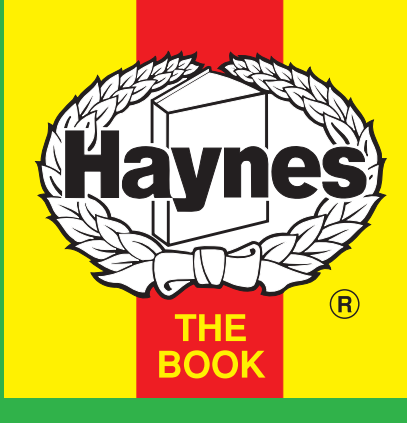
Electrical

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Automotive Technical
DATA BOOK

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HELP

Engine and cooling system

80, 1.8 & 4x4 CAT

1986 to 1991

Type	JN (66kW) SOHC	
Capacity (cm ³) / number of cylinders	1781 / 4	
Compression ratio / pressure	bar	9.0 / ≥7.0
Oil pressure	bar	[2.0]
Oil temperature	°C	80
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order	1-3-4-2	
No 1 cylinder position	TBE	
Thermostat opening temperature	°C	85
Radiator cap pressure	bar	1.2 to 1.5

Fuel system

80, 1.8 & 4x4 CAT

1986 to 1991

Idle speed - manual [auto]	rpm	800 to 1000
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5
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	Bosch	
Type / ref	KE-Jetronic	
Main jet / needle	—	
Injection pressure	bar	3.5 to 4.1
Pump pressure	bar	5.2 to 5.6
Octane rating	RON	91[U]

Ignition system

80, 1.8 & 4x4 CAT

1986 to 1991

Type	TSZ	
Ignition coil	Bosch	
Primary resistance	ohms	0.52 to 0.76
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor	Bosch	
Points gap (air gap)	mm	—
Dwell angle	° (%)	N/A
Condenser capacity	µF	—
Rotation	Clockwise	
Ignition timing - basic [static	° Crankshaft @ rpm	6±1 BTDC @ 800 to 1000
V = Vacuum NV = No Vacuum	NV	
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	0 @ 1050 to 1300
	° Crankshaft @ rpm	15 to 19 @ 2600
	° Crankshaft @ rpm	22 to 26 @ 4500
Vacuum range check	mbar	120 to 260
Maximum vacuum advance	° Crankshaft	10 to 14
Spark plugs	NGK	
Type	BUR5ET-10	
Electrode gap	mm	0.70 to 0.90

Electrical system

80, 1.8 & 4x4 CAT

1986 to 1991

Battery	V / CC / RC	12 / _
Alternator voltage / full load current / engine rpm	12.5 to 14.5 / _ / 2000	
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gear

80, 1.8 & 4x4 CAT

1986 to 1991

Brakes -		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	2.5

Tyres		
Saloon	Size	175/70x14: 195/60x14
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	1.9 / 1.9
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[+10'±10']
Camber	-45'±30'. 4x4: -50'±30'	
Castor	+1°15'±30'. Sport: +1°25'±30'	
King pin inclination	—	

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[+20'±20']. 4x4: [+20'±10']
Camber	-1°±20'. 4x4: -45'±30'	

Torque wrench settings

80, 1.8 & 4x4 CAT

1986 to 1991

Cylinder head - stage 1	Nm	40 N
- stage 2	Nm	60
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	+ 90°
Big-end bearings	Nm	30 + 90°
Main bearings	Nm	65
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	60 + 90°
Front hubs	Nm	265 LkC ¹
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	20

Capacities

80, 1.8 & 4x4 CAT

1986 to 1991

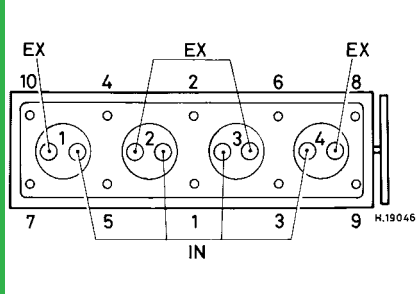
Engine oil & filter	litres	3.0
Gearbox - 4-speed [5-speed]	litres	2.4. 4x4: 2.9
Automatic transmission - refill	litres	3.0
Final drive	litres	AT & 4x4: 0.75
Cooling system	litres	7.0
Fuel tank	litres	68. 4x4: 70

Notes and Illustrations

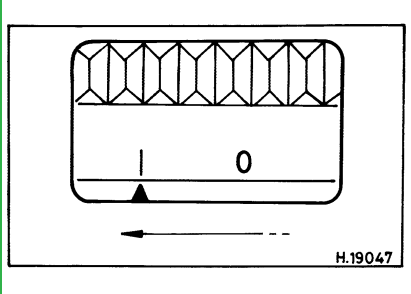
¹PAS M14: 120 + 90°. PAS M16: 200 + 90°

1: Idle speed

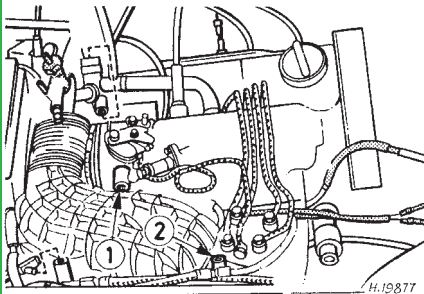
2: CO / Mixture



1781 cm³, 8V



1781 cm³, 8V



KE-Jetronic