

Engine & Cooling

Fuel

Ignition

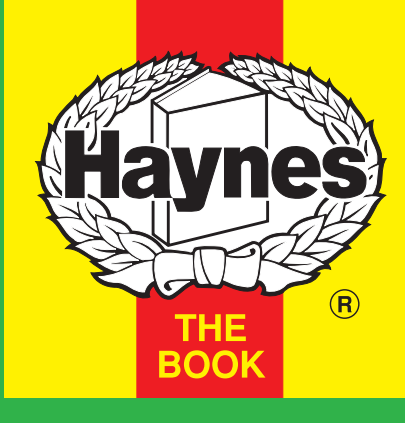
Electrical

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Notes & Illustrations



Automotive Technical
DATA BOOK

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HELP

Engine and cooling system

80, 1.8 & 4x4 CAT

1986 to 1991

Type		SF (65 or 66kW) SOHC
Capacity (cm ³) / number of cylinders		1781 / 4
Compression ratio / pressure	bar	9.0 / ≥7.5
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	900±50
Fast idle speed - manual [auto]	rpm	KI: 3200±200. KII: 3500±200
CO @ idle speed [3000 rpm] - see page VI	%	1.0-0.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO ₂ @ idle speed [3000 rpm] - see page VI	%	—
O ₂ @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		Keihin I/Keihin II
Type / ref		KI: 26-30 DC. KII: EF
Main jet / needle		KI: 110, 150. KII: 100, 145
Injection pressure	bar	—
Pump pressure	bar	0.35 to 0.40
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	18±1 BTDC @ 900±50
V = Vacuum NV = No Vacuum		V
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	KI: 0 @ 900 to 1200 ¹
	° Crankshaft @ rpm	KI: 18 to 23 @ 3000 ²
	° Crankshaft @ rpm	KI: 28 to 32 @ 5000 ³
Vacuum range check	mbar	KI: 60 to 320 ⁴
Maximum vacuum advance	° Crankshaft	KI: 13 to 15 ⁵
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° N
Front hubs	Nm	265 LkC ⁶
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	25

Capacities

80, 1.8 & 4x4 CAT

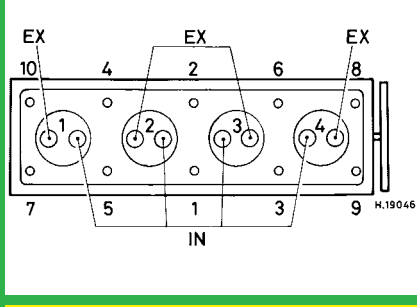
1986 to 1991

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

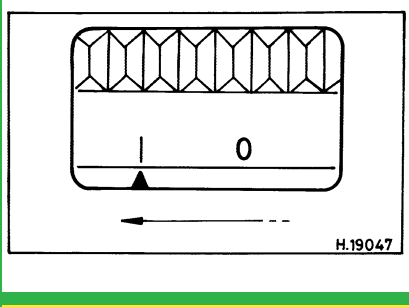
Notes and Illustrations

- ¹KII: 0 @ 1000 to 1200
- ²KII: 8 to 12 @ 1600
- ³KII: 26 to 30 @ 5800
- ⁴KII: 100 to 260
- ⁵KII: 10 to 14
- ⁶PAS M14: 120 + 90°. PAS M16: 200 + 90°

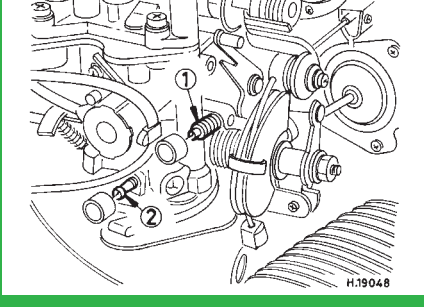
1: Idle speed 2: CO / Mixture



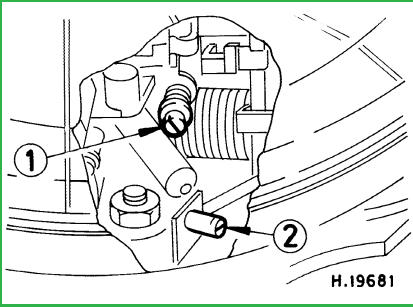
1781 cm³, 8V



1781 cm³, 8V



Keihin 26-30 DC



Keihin II EF