

Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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Automotive Technical DATA BOOK

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Engine and cooling system 80, 1.8S & CAT 1986 to 1991

Type	NE (66kW) SOHC	
Capacity (cm ³) / number of cylinders	1781 / 4	
Compression ratio / pressure	bar	10.0 / ≥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, 1.8S & CAT 1986 to 1991

Idle speed - manual [auto]	rpm	900±50. CAT: 825 to 975
Fast idle speed - manual [auto]	rpm	3200±200
CO @ idle speed [3000 rpm] - see page VI	%	1.0-0.5. CAT: ≤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/Pierburg	
Type / ref	26-30 DC. CAT: 2EE	
Main jet / needle	110, 150	
Injection pressure	bar	-
Pump pressure	bar	0.35 to 0.40
Octane rating	RON	98[E 98 RON] ¹

Ignition system 80, 1.8S & 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 ¹
V = Vacuum NV = No Vacuum	V	
Total ignition advance	° Crankshaft @ rpm	16 to 20 BTDC @ 900±50
	° Crankshaft @ rpm	-
	° Crankshaft @ rpm	-
Centrifugal check.	° Crankshaft @ rpm	0 @ 900 to 1100
	° Crankshaft @ rpm	14 to 19 @ 2400
	° Crankshaft @ rpm	22 to 26 @ 4700
Vacuum range check	mbar	60 to 320
Maximum vacuum advance	° Crankshaft	13 to 15
Spark plugs	Bosch/Champion	
Type	W7DTC / N7YCX	
Electrode gap	mm	0.70 to 0.90

Electrical system 80, 1.8S & 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, 1.8S & 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'
Castor		+1°15'±30'. Sport: +1°25'±30'
King pin inclination		-
Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	[+20'±20']
Camber		-1°±20'

Torque wrench settings 80, 1.8S & 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 ²
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	25

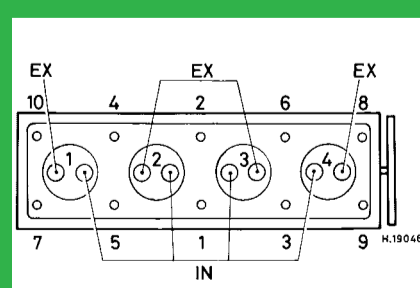
Capacities 80, 1.8S & CAT 1986 to 1991

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

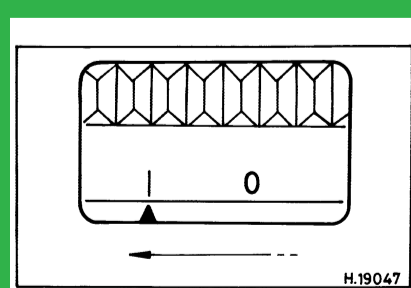
Notes and Illustrations

¹CAT: 95 [U]: [E 95 RON], 10±1 BTDC @ idle
²PAS M14: 120 + 90°. PAS M16: 200 + 90°

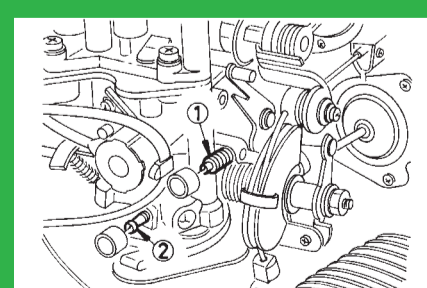
1: Idle speed 2: CO / Mixture



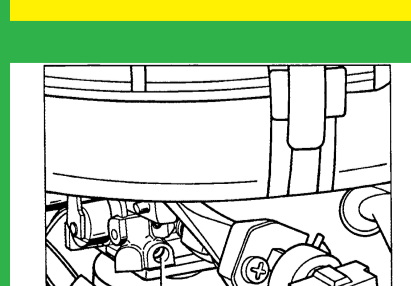
1781 cm³, 8V



1781 cm³, 8V



Keihin 26-30 DC



Pierburg 2EE