

Engine and cooling system

LT 2.4

1983 to 1993

Type		DL. 66kW
Capacity (cm ³) / number of cylinders		2383 / 6
Compression ratio / pressure	bar	8.1 / ≥7.0
Oil pressure	bar	[2.0]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.20±0.05 ¹
Valve clearance - exhaust	mm	0.40±0.05 ¹
Firing order		1-5-3-6-2-4
No 1 cylinder position		TBE
Thermostat opening temperature	°C	87. 3.90 ►: 80
Radiator cap pressure	bar	1.2 to 1.5

Fuel system

LT 2.4

1983 to 1993

Idle speed - manual [auto]	rpm	800±50 (2E3: 750±50)
Fast idle speed - manual [auto]	rpm	1800±50
CO @ idle speed [3000 rpm] - see page VI	%	1.0±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		Pierburg
Type / ref		2B6 (10.86 ►: 2E3)
Main jet / needle		115, 112.5 (2E3: 107.5, 135)
Injection pressure	bar	–
Pump pressure	bar	–
Octane rating	RON	91 ²

Ignition system

LT 2.4

1983 to 1993

Type		Contact breaker - CIS
Ignition coil		Bosch
Primary resistance	ohms	1.7 to 2.1
Ballast resistor	ohms	–
Voltage - Tmnl 15(+) to earth	V	–
Distributor		Bosch
Points gap (air gap)	mm	0.40
Dwell angle	° (%)	38±3
Condenser capacity	µF	–
Rotation		–
Ignition timing - basic [static	° Crankshaft @ rpm	7.5±1 BTDC @ idle
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	–
	° Crankshaft @ rpm	–
	° Crankshaft @ rpm	–
Centrifugal check.	° Crankshaft @ rpm	0 @ 1100 to 1400
	° Crankshaft @ rpm	14 to 19 @ 2500
	° Crankshaft @ rpm	25 to 29 @ 4150
Vacuum range check	mbar	100 to 400 ³
Maximum vacuum advance	° Crankshaft	20 to 24 ³
Spark plugs		Bosch/Champion
Type		W7DC / N7YC
Electrode gap	mm	0.60 to 0.80

Electrical system

LT 2.4

1983 to 1993

Battery	V / CC / RC	12 / 220 / 75
Alternator voltage / full load current / engine rpm		–
Starter motor current / voltage - cranking	A / V	–
- locked	A / V	–

Running gear

LT 2.4

1983 to 1993

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

Tyres		
Saloon	Size	–
Estate / Van	Size	185x14: 195x14: 205x14: 215x14
Pressure - front / rear - Saloon	bar	–
- Estate / Van	bar	WSM

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+3.0 to 6.0 ⁴
Camber		+40'±20' ⁵
Castor		+2°30'±40' ⁶
King pin inclination		–

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[+20'±40'] ⁷
Camber		0±25' N/A

Torque wrench settings

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1983 to 1993

Cylinder head - stage 1	Nm	40
- stage 2	Nm	60
Cylinder head - stage 3	Nm	+ 180°. Warm up
- stage 4	Nm	+ 90°
Big-end bearings	Nm	50 ⁸
Main bearings	Nm	65
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	60 + 90° N
Front hubs	Nm	WSM
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	320. LT28/31: 200
Spark plugs	Nm	20

Capacities

LT 2.4

1983 to 1993

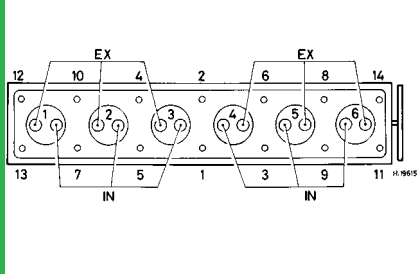
Engine oil & filter	litres	7.0
Gearbox - 4-speed [5-speed]	litres	3.5
Automatic transmission - refill	litres	–
Final drive	litres	1.8 ⁹
Cooling system	litres	13.0
Fuel tank	litres	70. Option: 110

Notes and Illustrations

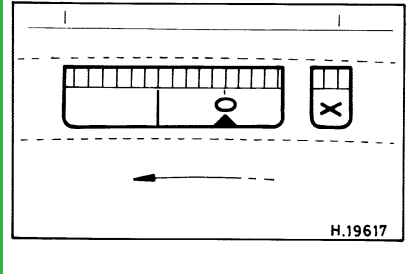
- ¹0: Models with hydraulic adjusters
- ²1 tank leaded fuel every 5th filling. 84 ►: [E 95 RON]
- ³10.86 ► (with 2E3): 100 to 340 @ 16 to 20°
- ⁴LT 40, 45, 50: 0 to +2.2
- ⁵LT 40, 45, 50: +10'±35'
- ⁶LT 40, 45, 50: +3°25'±20'
- ⁷LT 40, 45, 50: [0±20']
- ⁸Stretch bolts: 30 + 180° N
- ⁹Twin rear wheels: 2.4

1: Idle speed

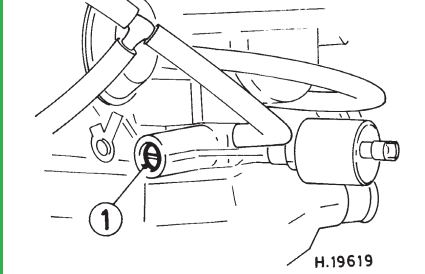
2: CO / Mixture



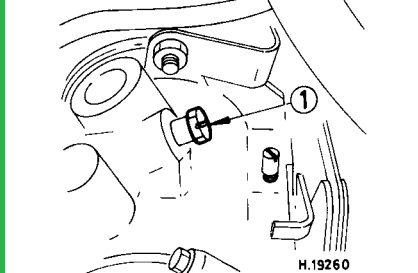
2383 cm³



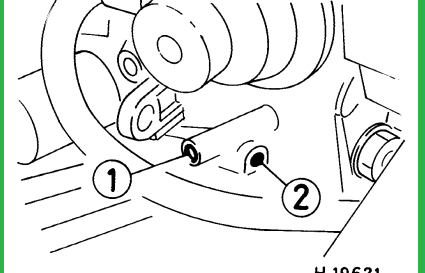
2383 cm³



Pierburg 2B6



Pierburg 2B6



Pierburg 2E3