

VOLKSWAGEN

LT & LT Hi-Torq 2.4i CAT

1990 to 1996

Engine & Cooling

Fuel

Ignition

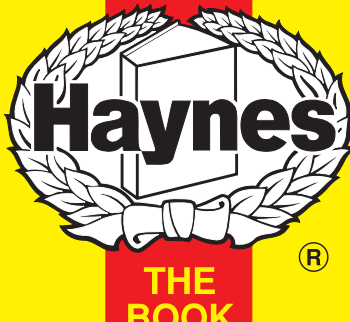
Electrical

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Automotive Technical

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Engine and cooling system

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Type		1E. 70kW
Capacity (cm <sup>3</sup> ) / number of cylinders		2383 / 6
Compression ratio / pressure	bar	8.2 / ≥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		1-5-3-6-2-4
No 1 cylinder position		TBE
Thermostat opening temperature	°C	80
Radiator cap pressure	bar	1.2 to 1.5

Fuel system

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Idle speed - manual [auto]	rpm	750 to 850
Fast idle speed - manual [auto]	rpm	2500 to 2800
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5 [≤0.3] Ex
HC @ idle speed [3000 rpm] - see page VI	ppm	≤200
CO2 @ idle speed [3000 rpm] - see page VI	%	–
O2 @ idle speed [3000 rpm] - see page VI	%	–
Carburettor / fuel injection		Volkswagen
Type / ref		Digifant 1.0 or 1.1
Main jet / needle		–
Injection pressure	bar	2.5
Pump pressure	bar	3.0
Octane rating	RON	91[U]

Ignition system

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Type		Digifant
Ignition coil		–
Primary resistance	ohms	0.6 to 0.8 Green label:0.5
Ballast resistor	ohms	–
Voltage - Tmnl 15(+) to earth	V	–
Distributor		Bosch
Points gap (air gap)	mm	–
Dwell angle	° (%)	–
Condenser capacity	µF	–
Rotation		–
Ignition timing - basic [static	° Crankshaft @ rpm	5±1 BTDC @ 2000 to 2500 N/A
V = Vacuum NV = No Vacuum		–
Total ignition advance	° Crankshaft @ rpm	Computer control
	° 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		Bosch/Champion
Type		W8DTC / N9BYC
Electrode gap	mm	0.70 to 0.90

Electrical system

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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

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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 <sup>1</sup>
Camber		+40'±20' <sup>2</sup>
Castor		+2°30'±40' <sup>3</sup>
King pin inclination		–

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[+20'±40'] <sup>4</sup>
Camber		0±25' N/A

Torque wrench settings

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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 <sup>5</sup>
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	25

Capacities

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Engine oil & filter	litres	7.0
Gearbox - 4-speed [5-speed]	litres	3.5
Automatic transmission - refill	litres	–
Final drive	litres	1.8 <sup>6</sup>
Cooling system	litres	12.0
Fuel tank	litres	70, 110

Notes and Illustrations

- <sup>1</sup>LT 40, 45, 50: 0 to +2.2

<sup>2</sup>LT 40, 45, 50: +10'±35'

<sup>3</sup>LT 40, 45, 50: +3°25'±20'

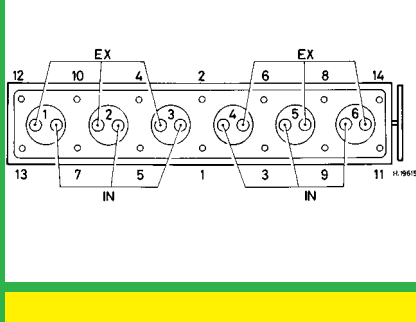
<sup>4</sup>LT 40, 45, 50: [0±20']

<sup>5</sup>Stretch bolts: 30 + 180° N

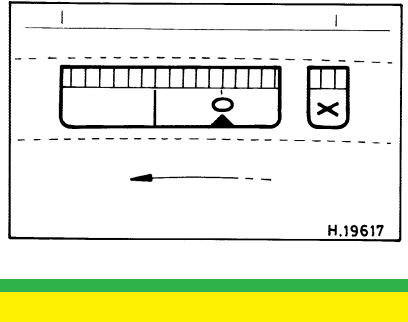
<sup>6</sup>Twin rear wheels: 2.4

1: Idle speed

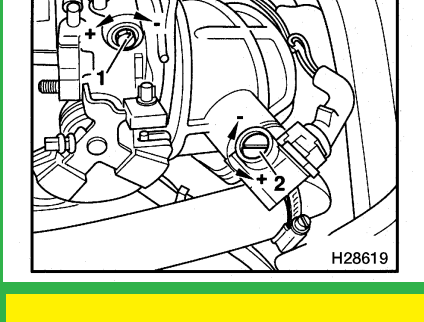
2: CO / Mixture



2383 cm<sup>3</sup>



2383 cm<sup>3</sup>



Digifant, 1E