

Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
------------------	------	----------	------------	--------------	-----------------	------------	-----------------------



Automotive Technical DATA BOOK

Click on one of the buttons above to view data for this car. To return to this screen and make another choice, click anywhere on the data screen.

MENU

HELP

Engine and cooling system Transporter 1.8 1991 to 1992

Type		PD 49kW SOHC 8V
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	87
Radiator cap pressure	bar	1.3 to 1.5

Fuel system Transporter 1.8 1991 to 1992

Idle speed - manual [auto]	rpm	850±50
Fast idle speed - manual [auto]	rpm	1700±100
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5 [≤0.3] Ex
HC @ idle speed [3000 rpm] - see page VI	ppm	≤200
CO ₂ @ idle speed [3000 rpm] - see page VI	%	-
O ₂ @ idle speed [3000 rpm] - see page VI	%	-
Carburettor / fuel injection		Solex/Pierburg
Type / ref		2E3 044 129 015A
Main jet / needle		110, 105
Injection pressure	bar	-
Pump pressure	bar	0.35 to 0.40
Octane rating	RON	91[E 91 RON]

Ignition system Transporter 1.8 1991 to 1992

Type		TCI-H
Ignition coil		-
Primary resistance	ohms	0.5 to 0.7
Ballast resistor	ohms	-
Voltage - Tmnl 15(+) to earth	V	-
Distributor		-
Points gap (air gap)	mm	-
Dwell angle	° (%)	-
Condenser capacity	µF	-
Rotation		-
Ignition timing - basic [static	° Crankshaft @ rpm	16±1 BTDC @ 850±50
V = Vacuum NV = No Vacuum		V
Total ignition advance	° Crankshaft @ rpm	14 to 18 BTDC @ 850±50
	° Crankshaft @ rpm	-
	° Crankshaft @ rpm	-
Centrifugal check.	° Crankshaft @ rpm	0 @ 1000 to 1300
	° Crankshaft @ rpm	8 to 12 @ 2200
	° Crankshaft @ rpm	22 to 26 @ 4800
Vacuum range check	mbar	240 to 420
Maximum vacuum advance	° Crankshaft	13 to 17
Spark plugs		Bosch/Champion
Type		W7DTC / N7BYC
Electrode gap	mm	0.7 to 0.9

Electrical system Transporter 1.8 1991 to 1992

Battery	V / CC / RC	12 / 220 / 45Ah
Alternator voltage / full load current / engine rpm		- / 65 / 3000
Starter motor current / voltage - cranking	A / V	-
- locked	A / V	-

Running gear Transporter 1.8 1991 to 1992

Brakes -		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	1.0

Tyres		
Saloon	Size	-
Estate / Van	Size	185x14: 195/70x15
Pressure - front / rear - Saloon	bar	-
- Estate / Van	bar	3.3 / 3.8 ¹

Front suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	Group 1 & 2: [+20'±20'] ²
Camber		Group 1 & 2: +15'±20' ³
Castor		+1°40'±30'. Group 4: 1°50'±30'
King pin inclination		-

Rear suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	Group 1 & 3: [+20'±20'] ⁴
Camber		Group 1 & 3: -30'±30' ⁵

Torque wrench settings Transporter 1.8 1991 to 1992

Cylinder head - stage 1	Nm	40
- stage 2	Nm	60
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	+ 90°
Big-end bearings	Nm	30 + 90°
Main bearings	Nm	65 ⁶
Clutch cover	Nm	20
Flywheel [driveplate]	Nm	60+ 90° N
Front hubs	Nm	150 + 90° N
Rear hubs	Nm	200
Wheel nuts / bolts	Nm	160
Spark plugs	Nm	20

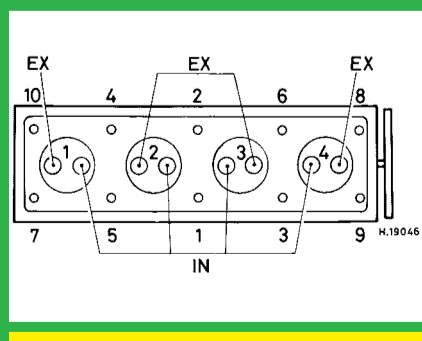
Capacities Transporter 1.8 1991 to 1992

Engine oil & filter	litres	5.0
Gearbox - 4-speed [5-speed]	litres	2.5
Automatic transmission - refill	litres	-
Final drive	litres	WT
Cooling system	litres	9.0
Fuel tank	litres	80

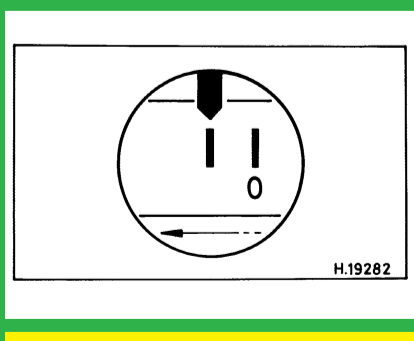
Notes and Illustrations

¹195/70x15: 2.6 / 3.4
²Group 3: [+10'±20']. Group 4: [0±20']
³Group 3: 0±20'. Group 4: -10'±20'
⁴Group 2: +6'±20'. Group 4: +24'±20'
⁵Group 2: 0±30'. Group 4: -40'±30'
⁶Replace with fully threaded shank bolts: 65 + 90°

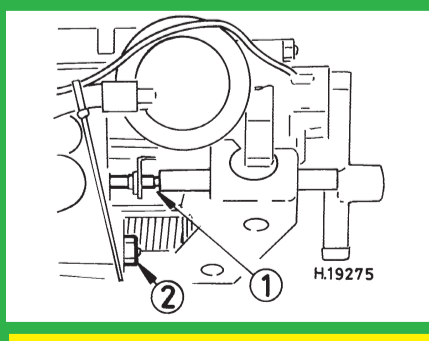
1: Idle speed 2: CO / Mixture



1781 cm³, 8V



1781 cm³, 8V



Solex / Pierburg 2E3