

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling system

Transit 2.0

1991 to 1994

Type	NBA OHC 66kW 15.05 US84	
Capacity (cm³) / number of cylinders	1994 / 4	
Compression ratio / pressure	bar	9.2 / 11 to 13
Oil pressure	bar	2.1 [2.5]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.20±0.03
Valve clearance - exhaust	mm	0.25±0.03
Firing order	1-3-4-2	
No 1 cylinder position	TBE	
Thermostat opening temperature	°C	88 to 102
Radiator cap pressure	bar	1.0

Fuel system

Transit 2.0

1991 to 1994

Idle speed - manual [auto]	rpm	800±50 N/A
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	1.0±0.25
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	Weber	
Type / ref	2V. 91HF-AB	
Main jet / needle	105, 120	
Injection pressure	bar	—
Pump pressure	bar	0.26 to 0.34
Octane rating	RON	95[E 95 RON]

Ignition system

Transit 2.0

1991 to 1994

Type	ESC II	
Ignition coil	Bosch, Femsa, Polmot	
Primary resistance	ohms	0.72 to 0.88
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor	Bosch	
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation	Clockwise	
Ignition timing - basic [static	° Crankshaft @ rpm	4 BTDC @ idle
V = Vacuum NV = No Vacuum	NV	
Total ignition advance	° Crankshaft @ rpm	—
	° 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	Motorcraft/Champion	
Type	BRF32C / F7YC	
Electrode gap	mm	0.75

Electrical system

Transit 2.0

1991 to 1994

Battery	V / CC / RC	12 / 200 / 70
Alternator voltage / full load current / engine rpm	13.7 to 14.6 / _ / 4000	
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gear

Transit 2.0

1991 to 1994

Brakes -		
Front (min. friction material thickness)	mm	1.5
Rear (min. friction material thickness)	mm	1.0

Tyres		
Saloon	Size	—
Estate / Van	Size	185x14: 195x14: 215/70x15 ¹
Pressure - front / rear - Saloon	bar	—
- Estate / Van	bar	WSM

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	0 to +1.6
Camber	WSM	
Castor	WSM	
King pin inclination	—	

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	—
Camber	—	

Torque wrench settings

Transit 2.0

1991 to 1994

Cylinder head - stage 1	Nm	38 N
- stage 2	Nm	73
Cylinder head - stage 3	Nm	Wait 5 min.
- stage 4	Nm	+ 90°
Big-end bearings	Nm	44
Main bearings	Nm	95
Clutch cover	Nm	19
Flywheel [driveplate]	Nm	67
Front hubs	Nm	WSM
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	5 stud: 75 to 95 ²
Spark plugs	Nm	24

Capacities

Transit 2.0

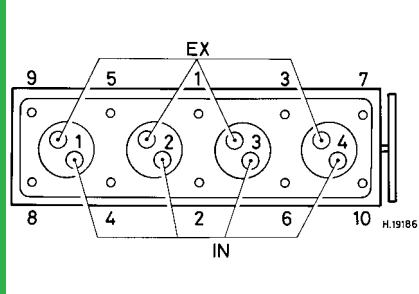
1991 to 1994

Engine oil & filter	litres	3.75
Gearbox - 4-speed [5-speed]	litres	1.25
Automatic transmission - refill	litres	8.5
Final drive	litres	Type G: 1.7 ³
Cooling system	litres	8.4
Fuel tank	litres	68

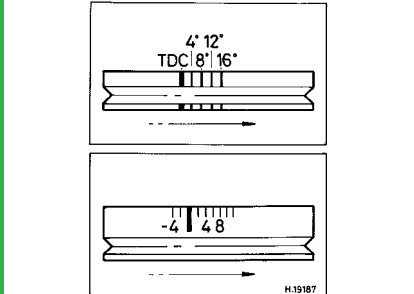
Notes and Illustrations

¹225/70x15 may be fitted
²6 stud: 155 to 180
³Type H axle: 2.7

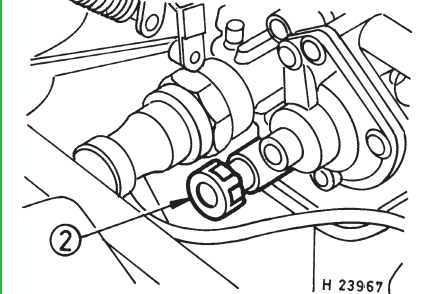
1: Idle speed 2: CO / Mixture



1994 cm³



1994 cm³



Weber 2V