

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling systemTransit 2.9 EFi1991 to 1994

Type		BRT V6 OHV 107kW US88 LDT
Capacity (cm³) / number of cylinders		2933 / 6
Compression ratio / pressure	bar	9.5 / 12.4 to 14.1
Oil pressure	bar	0.98 [2.5]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.35
Valve clearance - exhaust	mm	0.40
Firing order		1-4-2-5-3-6
No 1 cylinder position		FR
Thermostat opening temperature	°C	79 to 83
Radiator cap pressure	bar	0.85 to 1.10

Fuel systemTransit 2.9 EFi1991 to 1994

Idle speed - manual [auto]	rpm	900±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	0.75±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		Bosch
Type / ref		L-Jetronic
Main jet / needle		—
Injection pressure	bar	3.0
Pump pressure	bar	≥5.0
Octane rating	RON	96[E 95 RON]

Ignition systemTransit 2.9 EFi1991 to 1994

Type		EEC IV
Ignition coil		Bosch, Femsa, Polmot
Primary resistance	ohms	0.72 to 0.88
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Bosch/Motorcraft
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	15 BTDC @ ≤900
V = Vacuum NV = No Vacuum		—
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		AGPR32C1 / RC7YC
Electrode gap	mm	1.00

Electrical systemTransit 2.9 EFi1991 to 1994

Battery	V / CC / RC	12 / 360 / 60 or 500 / 75
Alternator voltage / full load current / engine rpm		13.7 to 14.6 / 90 / 4000
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gearTransit 2.9 EFi1991 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 settingsTransit 2.9 EFi1991 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	30
Main bearings	Nm	97
Clutch cover	Nm	23
Flywheel [driveplate]	Nm	71
Front hubs	Nm	WSM
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	5 stud: 75 to 95 ²
Spark plugs	Nm	35

CapacitiesTransit 2.9 EFi1991 to 1994

Engine oil & filter	litres	4.25
Gearbox - 4-speed [5-speed]	litres	1.3
Automatic transmission - refill	litres	8.5
Final drive	litres	Type G: 1.7 ³
Cooling system	litres	8.5
Fuel tank	litres	68

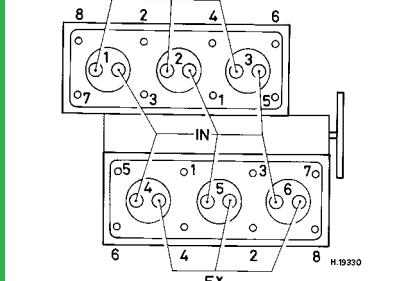
Notes and Illustrations

¹225/70x15 may be fitted

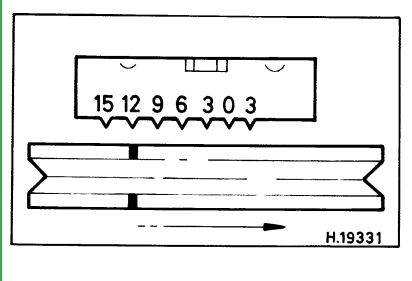
²6 stud: 155 to 180

³Type H axle: 2.7

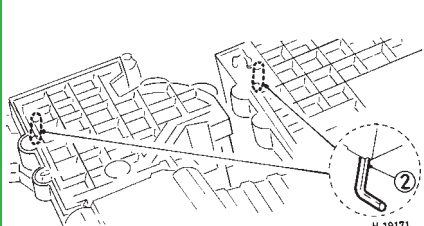
1: Idle speed 2: CO / Mixture



2933 cm³



2933 cm³



L-Jetronic