Automotive Technical DATA BOOK

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MENU HELP

## Engine and cooling system — Transit 2.9 EFi — 1989 to 1991

| | | |
|---|---|---|
| Type | | B4T V6 OHV 110kW 15.04 |
| 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 | ºC | 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 | ºC | 79 to 83 |
| Radiator cap pressure | bar | 0.85 to 1.10 |

## Fuel system — Transit 2.9 EFi — 1989 to 1991

| | | |
|---|---|---|
| Idle speed - manual [auto] | rpm | 875±25 |
| Fast idle speed - manual [auto] | rpm | _ |
| CO @ idle speed [3000 rpm] - see page VI | % | _ |
| HC @ idle speed [3000 rpm] - see page VI | ppm | _ |
| 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 | 2.5 to 3.0 |
| Pump pressure | bar | ≥5.0 |
| Octane rating | RON | 96[E 95 RON] |

## Ignition system — Transit 2.9 EFi — 1989 to 1991

| | | |
|---|---|---|
| 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 |
| Points gap (air gap) | mm | _ |
| Dwell angle | º (%) | _ |
| Condenser capacity | µF | _ |
| Rotation | | Clockwise |
| Ignition timing - basic [static | º Crankshaft @ rpm | 12 BTDC @ ≤900 |
| V = Vacuum NV = No Vacuum | | _ |
| Total ignition advance | º Crankshaft @ rpm | _ |
| | º Crankshaft @ rpm | _ |
| | º Crankshaft @ rpm | _ |
| Centrifugal check. | º Crankshaft @ rpm | Computer control |
| | º Crankshaft @ rpm | _ |
| | º Crankshaft @ rpm | _ |
| Vacuum range check | mbar | Computer control |
| Maximum vacuum advance | º Crankshaft | _ |
| Spark plugs | | Motorcraft/Champion |
| Type | | AGPR32CD / RC7YC |
| Electrode gap | mm | 0.75 |

## Electrical system — Transit 2.9 EFi — 1989 to 1991

| | | |
|---|---|---|
| Battery | V / CC / RC | 12 / 360 / 60 or 500 / 75 |
| 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 2.9 EFi — 1989 to 1991

| | | |
|---|---|---|
| **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 |
| Pressure - front / rear - Saloon | bar | _ |
| - Estate / Van | bar | WSM |
| **Front suspension / wheel alignment** | | |
| Toe-in (+) / Toe-out (–) | mm [º] | 0 to +1.6 |
| Camber | | -30’ to +2°30’[1] |
| Castor | | +15’ to +4°30’[2] |
| King pin inclination | | _ |
| **Rear suspension / wheel alignment** | | |
| Toe-in (+) / Toe-out (–) | mm [º] | _ |
| Camber | | _ |

## Torque wrench settings — Transit 2.9 EFi — 1989 to 1991

| | | |
|---|---|---|
| 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[3] |
| Spark plugs | Nm | 35 |

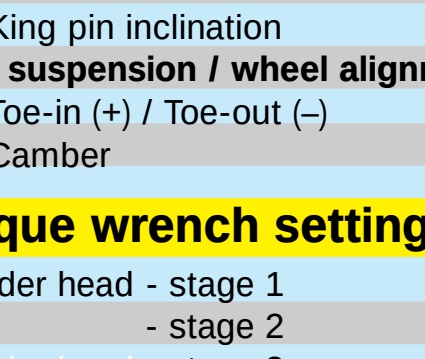
## Capacities — Transit 2.9 EFi — 1989 to 1991

| | | |
|---|---|---|
| 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[4] |
| Cooling system | litres | 8.5 |
| Fuel tank | litres | 68 |

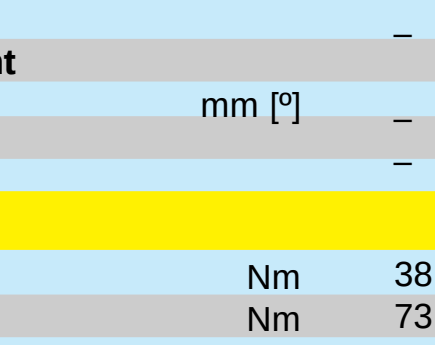
## Notes and Illustrations

[1]**MacPherson type only. Beam axle: +30’ to 1°30’**
[2]**MacPherson type only. Beam axle: +2°30’ to 6°15’**
[3]**6 stud: 155 to 180**
[4]**Type H axle: 2.7**

1: Idle speed 2: CO / Mixture




**2933 cm³**




**2933 cm³**




**L-Jetronic**