

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

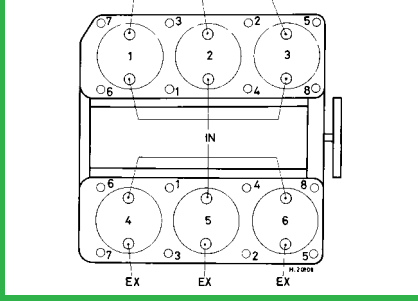
Engine and cooling system			75, 3.0i V6 & CAT	1987 to 1993
Type			061.20 136kW SOHC	
Capacity (cm³) / number of cylinders			2959 / 6	
Compression ratio / pressure	bar		9.5 / _	
Oil pressure	bar		[3.9 to 5.9]	
Oil temperature	°C		90	
Valve clearance - inlet	mm		0.48 to 0.50	
Valve clearance - exhaust	mm		0.23 to 0.25	
Firing order			1-4-2-5-3-6	
No 1 cylinder position			FR	
Thermostat opening temperature	°C		81 to 85	
Radiator cap pressure	bar		0.88 to 1.08	
Fuel system			75, 3.0i V6 & CAT	1987 to 1993
Idle speed - manual [auto]	rpm		800±100	
Fast idle speed - manual [auto]	rpm		_	
CO @ idle speed [3000 rpm] - see page VI	%		≤0.5	
HC @ idle speed [3000 rpm] - see page VI	ppm		≤300	
CO2 @ idle speed [3000 rpm] - see page VI	%		_	
O2 @ idle speed [3000 rpm] - see page VI	%		_	
Carburettor / fuel injection			Bosch	
Type / ref			L-Jetronic.CAT: ML4.1-Motronic	
Main jet / needle			_	
Injection pressure	bar		_	
Pump pressure	bar		2.3 to 2.7	
Octane rating	RON		98[RA] ¹	
Ignition system			75, 3.0i V6 & CAT	1987 to 1993
Type			Electronic	
Ignition coil			Bosch 0 221 600 002/122 015	
Primary resistance	ohms		0.7 to 1.0	
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		7±1 BTDC @ idle (mark F)	
V = Vacuum NV = No Vacuum			NV	
Total ignition advance	° Crankshaft @ rpm		32±1 BTDC @ 5000 (mark M)	
	° Crankshaft @ rpm		_	
	° Crankshaft @ rpm		_	
Centrifugal check.	° Crankshaft @ rpm		0 @ 700 to 1200	
	° Crankshaft @ rpm		19 to 24 @ 3000	
	° Crankshaft @ rpm		24 to 28 @ 4200	
Vacuum range check	mbar		0 to 261	
Maximum vacuum advance	° Crankshaft		8 to 12	
Spark plugs			Lodge/Champion	
Type			2HL / RN7YCC	
Electrode gap	mm		Champion: 0.80	
Electrical system			75, 3.0i V6 & CAT	1987 to 1993
Battery	V / CC / RC		12 / 290 / 60Ah	
Alternator voltage / full load current / engine rpm			14.0 / 80 / 4000	
Starter motor current / voltage - cranking	A / V		290 / 9.0	
- locked	A / V		500 / 6.0	
Running gear			75, 3.0i V6 & CAT	1987 to 1993
Brakes -				
Front (min. friction material thickness)	mm		7.0 with backing	
Rear (min. friction material thickness)	mm		7.0 with backing	
Tyres				
Saloon	Size		195/60x14: 195/55x15	
Estate / Van	Size		_	
Pressure - front / rear - Saloon	bar		2.0 / 2.0	
- Estate / Van	bar		_	
Front suspension / wheel alignment				
Toe-in (+) / Toe-out (-)	mm [°]		-1.0±1.0	
Camber			-30'±30'	
Castor			+4°30'±30'	
King pin inclination			_	
Rear suspension / wheel alignment				
Toe-in (+) / Toe-out (-)	mm [°]		[0±10']	
Camber			0±30'	
Torque wrench settings			75, 3.0i V6 & CAT	1987 to 1993
Cylinder head - stage 1	Nm		88 to 98 oiled	
- stage 2	Nm		98 to 108	
Cylinder head - stage 3	Nm		1000km: - 360°	
- stage 4	Nm		Oil, then 98 to 108	
Big-end bearings	Nm		53 to 59 oiled	
Main bearings	Nm		84 to 93 oiled	
Clutch cover	Nm		18 to 22	
Flywheel [driveplate]	Nm		113, LkC	
Front hubs	Nm		WSM	
Rear hubs	Nm		265 to 324	
Wheel nuts / bolts	Nm		98	
Spark plugs	Nm		25 to 34 oiled	
Capacities			75, 3.0i V6 & CAT	1987 to 1993
Engine oil & filter	litres		6.7	
Gearbox - 4-speed [5-speed]	litres		2.3	
Automatic transmission - refill	litres		_	
Final drive	litres		WT	
Cooling system	litres		10.0	
Fuel tank	litres		67	

Notes and Illustrations

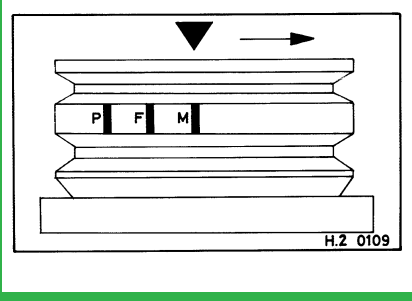
¹Without coolant temperature sensor for ignition advance adjustment: [E 95 RON]. With coolant temperature sensor:[E 95 RON], disconnect sensor and retard ignition 3°. CAT 95[U]

1: Idle speed

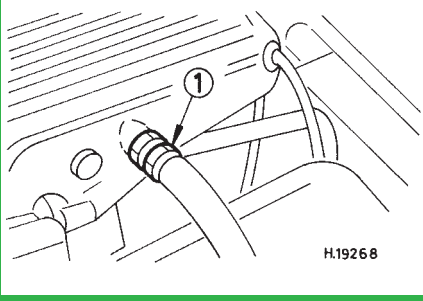
2: CO / Mixture



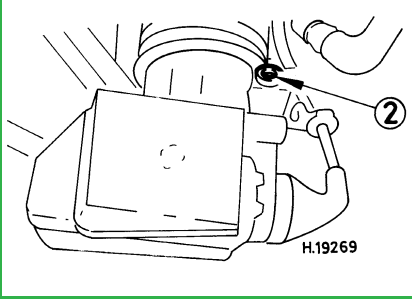
2959 cm³



2959 cm³



L-Jetronic, 3.0 V6



L-Jetronic, 3.0 V6