

Engine & Cooling

Fuel

Ignition

Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



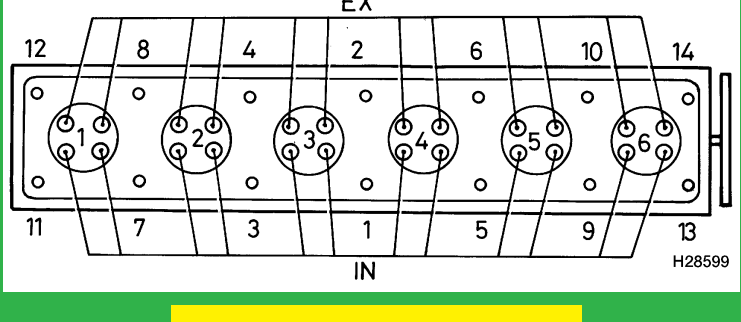
Automotive Technical
DATA BOOK

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		300E-24, TE-24, CE-24 CAT ¹	1989 to 1993
Type		104.980KE 162kW	
Capacity (cm ³) / number of cylinders		2960 / 6	
Compression ratio / pressure	bar	10.0 / ≥12.0	
Oil pressure	bar	0.3 [3.0]	
Oil temperature	°C	90	
Valve clearance - inlet	mm	0: Hyd.	
Valve clearance - exhaust	mm	0: Hyd.	
Firing order		1-5-3-6-2-4	
No 1 cylinder position		F	
Thermostat opening temperature	°C	87±2	
Radiator cap pressure	bar	1.4±0.1	
Fuel system		300E-24, TE-24, CE-24 CAT ¹	1989 to 1993
Idle speed - manual [auto]	rpm	650 to 750	
Fast idle speed - manual [auto]	rpm	—	
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5. [1.5 to 5.0] ²	
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		CIS-E (KE5-Jetronic)	
Main jet / needle		—	
Injection pressure	bar	4.3 to 4.6	
Pump pressure	bar	6.2 to 6.4	
Octane rating	RON	95[U]	
Ignition system		300E-24, TE-24, CE-24 CAT ¹	1989 to 1993
Type		EZL	
Ignition coil		Bosch	
Primary resistance	ohms	0.3 to 0.6	
Ballast resistor	ohms	—	
Voltage - Tmnl 15(+) to earth	V	Battery	
Distributor		Bosch	
Points gap (air gap)	mm	—	
Dwell angle	° (%)	1 to 30 @ starter speed	
Condenser capacity	µF	—	
Rotation		—	
Ignition timing - basic [static	° Crankshaft @ rpm	21 to 25 BTDC @ 3200	
V = Vacuum NV = No Vacuum		NV	
Total ignition advance	° Crankshaft @ rpm	6 to 10 BTDC @ idle	
	° Crankshaft @ rpm	34 to 38 BTDC @ 3200	
	° Crankshaft @ rpm	—	
Centrifugal check.	° Crankshaft @ rpm	Computer control	
	° Crankshaft @ rpm	—	
	° Crankshaft @ rpm	—	
Vacuum range check	mbar	Computer control	
Maximum vacuum advance	° Crankshaft	—	
Spark plugs		Bosch/Champion	
Type		F8DCO / C10YCC	
Electrode gap	mm	0.80	
Electrical system		300E-24, TE-24, CE-24 CAT ¹	1989 to 1993
Battery	V / CC / RC	12 / 190 / 62Ah	
Alternator voltage / full load current / engine rpm		14.0 / 80 / 2490	
Starter motor current / voltage - cranking	A / V	95 / 11.5 (no load)	
- locked	A / V	650 to 840 / 3.8	
Running gear		300E-24, TE-24, CE-24 CAT ¹	1989 to 1993
Brakes -			
Front (min. friction material thickness)	mm	2.0	
Rear (min. friction material thickness)	mm	2.0	
Tyres			
Saloon	Size	195/65x15: 205/60x15	
Estate / Van	Size	195/65x15: 205/60x15	
Pressure - front / rear - Saloon	bar	2.3 / 2.3 ³	
- Estate / Van	bar	2.0 / 2.5	
Front suspension / wheel alignment			
Toe-in (+) / Toe-out (–)	mm [°]	[+20'±10']	
Camber		-25'+10'-20' ⁴	
Castor		+10°25'±30' ⁵	
King pin inclination		—	
Rear suspension / wheel alignment			
Toe-in (+) / Toe-out (–)	mm [°]	[+20' to 35']	
Camber		-1°30'±30'	
Torque wrench settings		300E-24, TE-24, CE-24 CAT ¹	1989 to 1993
Cylinder head - stage 1	Nm	70	
- stage 2	Nm	+ 90°	
Cylinder head - stage 3	Nm	+ 90°	
- stage 4	Nm	—	
Big-end bearings	Nm	30 + 90 to 100°	
Main bearings	Nm	55 + 90 to 100°	
Clutch cover	Nm	25	
Flywheel [driveplate]	Nm	40 + 90 to 100°	
Front hubs	Nm	WSM	
Rear hubs	Nm	200 to 240	
Wheel nuts / bolts	Nm	110	
Spark plugs	Nm	30	
Capacities		300E-24, TE-24, CE-24 CAT ¹	1989 to 1993
Engine oil & filter	litres	7.5	
Gearbox - 4-speed [5-speed]	litres	1.7	
Automatic transmission - refill	litres	6.2	
Final drive	litres	1.3	
Cooling system	litres	9.0	
Fuel tank	litres	70. TE: 72	
Notes and Illustrations			
¹ (124.031/091/051)			
² Regenerating line disconnected and plugged			
³ 300CE: 2.2 / 2.2			
⁴ 300TE: -5'+10'-20'. Sport: -50'+10'-20'			
⁵ 300TE: +10°10'±30'. Sport: +10°40'±30'			



2960 cm³, DOHC 24V