

Engine & Cooling

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Automotive Technical
DATA BOOK

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HELP

Engine and cooling system

300 GE / G300

1991 to 1996

Type		103.**KE
Capacity (cm³) / number of cylinders		2960 / 6
Compression ratio / pressure	bar	–
Oil pressure	bar	0.3 [3.0]
Oil temperature	°C	80
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

300 GE / G300

1991 to 1996

Idle speed - manual [auto]	rpm	600 to 700
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	≤150
CO2 @ idle speed [3000 rpm] - see page VI	%	≥12.5
O2 @ idle speed [3000 rpm] - see page VI	%	–
Carburettor / fuel injection		Bosch
Type / ref		CIS-E (KE-Jetronic)
Main jet / needle		–
Injection pressure	bar	3.2
Pump pressure	bar	5.3 to 5.5
Octane rating	RON	95[U]

Ignition system

300 GE / G300

1991 to 1996

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	–
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		Bosch/Champion
Type		H7DC / S9YC
Electrode gap	mm	0.80

Electrical system

300 GE / G300

1991 to 1996

Battery	V / CC / RC	–
Alternator voltage / full load current / engine rpm		13.0 to 14.5 / 70 / 3000
Starter motor current / voltage - cranking	A / V	–
- locked	A / V	650 to 840 / 3.8

Running gear

300 GE / G300

1991 to 1996

Brakes -		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	3.5

Tyres		
Saloon	Size	–
Estate / Van	Size	205x16
Pressure - front / rear - Saloon	bar	–
- Estate / Van	bar	1.8 / 2.0

Front suspension / wheel alignment

Toe-in (+) / Toe-out (–)	mm [°]	0±0.5
Camber		+1°±20’
Castor		+5°±20’
King pin inclination		+9°±20’

Rear suspension / wheel alignment

Toe-in (+) / Toe-out (–)	mm [°]	–
Camber		–

Torque wrench settings

300 GE / G300

1991 to 1996

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	35 + 90 to 100°
Front hubs	Nm	WSM
Rear hubs	Nm	–
Wheel nuts / bolts	Nm	180
Spark plugs	Nm	20

Capacities

300 GE / G300

1991 to 1996

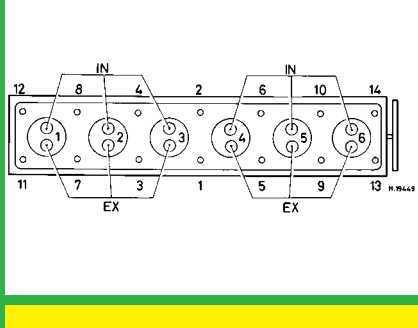
Engine oil & filter	litres	6.0
Gearbox - 4-speed [5-speed]	litres	1.6¹
Automatic transmission - refill	litres	–
Final drive	litres	1.6
Cooling system	litres	10.5
Fuel tank	litres	85

Notes and Illustrations

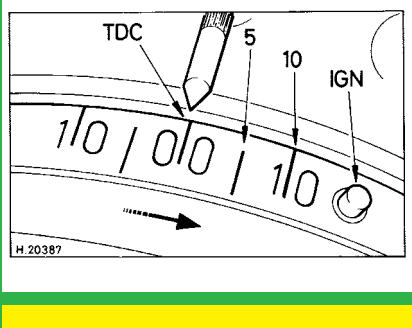
¹Transfer box: 2.0

1: Idle speed

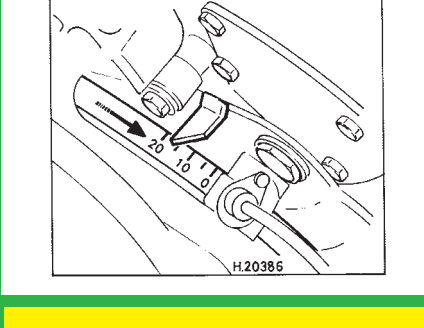
2: CO / Mixture



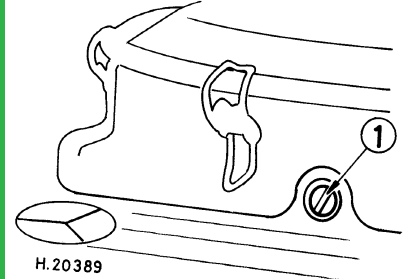
2960 cm³



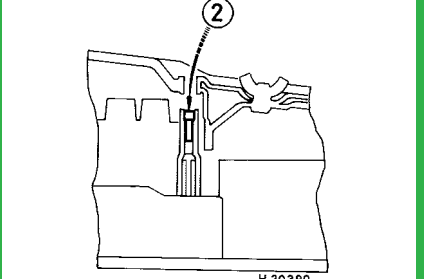
2960 cm³, alternative



2960 cm³



KE-Jetronic



KE-Jetronic