

Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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# Automotive Technical DATA BOOK

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HELP

## Engine and cooling system 300, 1289 1990 to 1991

Type		B13.4E. 49kW
Capacity (cm <sup>3</sup> ) / number of cylinders		1289 / 4
Compression ratio / pressure	bar	8.9 / ≥11.8
Oil pressure	bar	[3.0 to 4.4]
Oil temperature	°C	–
Valve clearance - inlet	mm	0.15
- exhaust	mm	0.20
Firing order		1-3-4-2
No 1 cylinder position		FE
Thermostat opening temperature	°C	86 to 89 or 89 to 92
Radiator cap pressure	bar	0.74

## Fuel system 300, 1289 1990 to 1991

Idle speed - manual [auto]	rpm	900±50 [800±50]
Fast idle speed - manual [auto]	rpm	–
CO @ idle speed [3000 rpm] - see page VI	%	2.0-0.5+1.0
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO <sub>2</sub> @ idle speed [3000 rpm] - see page VI	%	–
O <sub>2</sub> @ idle speed [3000 rpm] - see page VI	%	–
Carburettor / fuel injection		Weber
Type / ref		32 DIR
Main jet / needle		–
Injection pressure	bar	–
Pump pressure	bar	0.16 to 0.26
Octane rating	RON	96[E 95 RON]

## Ignition system 300, 1289 1990 to 1991

Type		AEI
Ignition coil		Renix
Primary resistance	ohms	0.4 to 0.8
Ballast resistor	ohms	–
Voltage - Tmnl 15(+) to earth	V	–
Distributor		Ducellier/Renix
Points gap (air gap)	mm	–
Dwell angle	° (%)	Electronic control
Condenser capacity	µF	–
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	6±3 BTDC @ 900
V = Vacuum NV = No Vacuum		NV
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		W8DC / N9YC
Electrode gap	mm	0.70

## Electrical system 300, 1289 1990 to 1991

Battery	V / CC / RC	12 / 36, 45Ah
Alternator voltage / full load current / engine rpm		14.0 to 15.0 / 50 / 2500
Starter motor current / voltage - cranking	A / V	200 to 230 / 9.0 to 9.2
- locked	A / V	350 to 400 / 6.0

## Running gear 300, 1289 1990 to 1991

<b>Brakes -</b>		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	2.0

<b>Tyres</b>		
Saloon	Size	155x13: 175/70x13
Estate / Van	Size	–
Pressure - front / rear - Saloon	bar	1.9 / 2.1
- Estate / Van	bar	–

<b>Front suspension / wheel alignment</b>		
Toe-in (+) / Toe-out (-)	mm [°]	+4.0±1.0
Camber		+30'±30'
Castor		+7°30'±30'
King pin inclination		+9°35'±30'

<b>Rear suspension / wheel alignment</b>		
Toe-in (+) / Toe-out (-)	mm [°]	0±3.0
Camber		-2°±30'

## Torque wrench settings 300, 1289 1990 to 1991

Cylinder head - stage 1	Nm	27
- stage 2	Nm	60
- stage 3	Nm	Warm engine, cool 6 hours
- stage 4	Nm	- 90°, then 60
Big-end bearings	Nm	42
Main bearings	Nm	60
Clutch cover	Nm	23. Centrifugal: 20
Flywheel [driveplate]	Nm	53 N
Front hubs	Nm	55, - 90° & lock
Rear hubs	Nm	245
Wheel nuts / bolts	Nm	115
Spark plugs	Nm	18

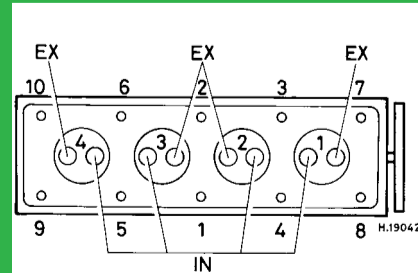
## Capacities 300, 1289 1990 to 1991

Engine oil & filter	litres	4.0
Gearbox - 4-speed [5-speed]	litres	2.2 <sup>1</sup>
Automatic transmission - refill	litres	Primary:0.6. Second:1.0
Final drive	litres	1.4
Cooling system	litres	6.5
Fuel tank	litres	45

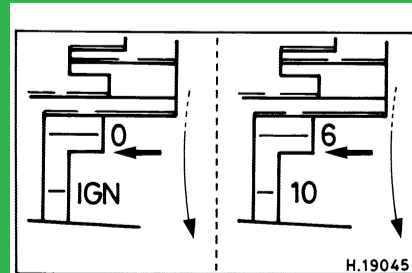
## Notes and Illustrations

<sup>1</sup>M47R: front plug: 3.3. Front plug 85 ▶: 2.8

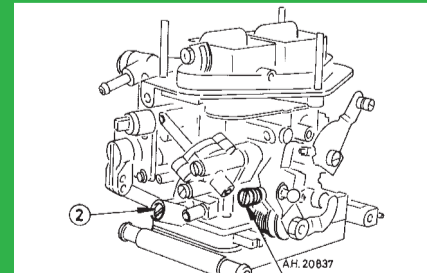
1: Idle speed 2: CO / Mixture



1289 cm<sup>3</sup>



1289 cm<sup>3</sup>



Weber 32 DIR