

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 S (2.9) S2, S3 1988 to 1993

Type		BRC OHV
Capacity (cm ³) / number of cylinders		2936 / 6
Compression ratio / pressure	bar	9.5 / ≥11.5
Oil pressure	bar	1.0 [2.5]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.36
- exhaust	mm	0.41
Firing order		1-4-2-5-3-6
No 1 cylinder position		FR
Thermostat opening temperature	°C	79 to 83
Radiator cap pressure	bar	1.0

Fuel system S (2.9) S2, S3 1988 to 1993

Idle speed - manual [auto]	rpm	900±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	0.75±0.25
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO ₂ @ idle speed [3000 rpm] - see page VI	%	—
O ₂ @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		Bosch
Type / ref		L-Jetronic
Main jet / needle		—
Injection pressure	bar	2.5
Pump pressure	bar	[≥5.0]
Octane rating	RON	97[R]

Ignition system S (2.9) S2, S3 1988 to 1993

Type		Computerized
Ignition coil		Bosch
Primary resistance	ohms	0.72 to 0.88
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Motorcraft
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	12 BTDC @ 900
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		Motorcraft/Champion
Type		AGRP22C / RC7YC
Electrode gap	mm	0.76

Electrical system S (2.9) S2, S3 1988 to 1993

Battery	V / CC / RC	12 / 60Ah
Alternator voltage / full load current / engine rpm		13.7 to 14.6 / _ / 3000
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gear S (2.9) S2, S3 1988 to 1993

Brakes -		
Front (min. friction material thickness)	mm	3.0
Rear (min. friction material thickness)	mm	1.5
Tyres		
Saloon	Size	205/60x15
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	1.5 / 1.5
- Estate / Van	bar	—
Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	[+0.5°±0.25°]
Camber		+1°±0.25°
Castor		+3.5°±0.5°
King pin inclination		+13°
Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	[+0.25°±0.25°]
Camber		+1.25°±0.25°

Torque wrench settings S (2.9) S2, S3 1988 to 1993

Cylinder head - stage 1	Nm	35 to 41
- stage 2	Nm	71 to 75
- stage 3	Nm	Wait 5 minutes
- stage 4	Nm	+ 90°
Big-end bearings	Nm	35 to 41
Main bearings	Nm	89 to 104
Clutch cover	Nm	18 to 20
Flywheel [driveplate]	Nm	65 to 71
Front hubs	Nm	274 to 315
Rear hubs	Nm	251 to 290
Wheel nuts / bolts	Nm	95
Spark plugs	Nm	30 to 40

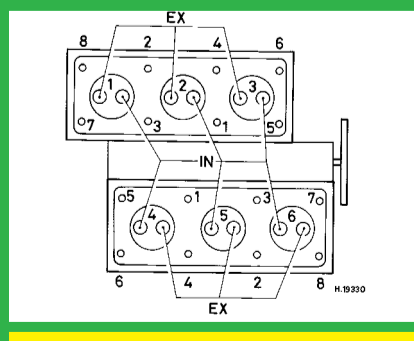
Capacities S (2.9) S2, S3 1988 to 1993

Engine oil & filter	litres	4.3
Gearbox - 4-speed [5-speed]	litres	1.3
Automatic transmission - refill	litres	—
Final drive	litres	1.4
Cooling system	litres	10.2
Fuel tank	litres	54.5

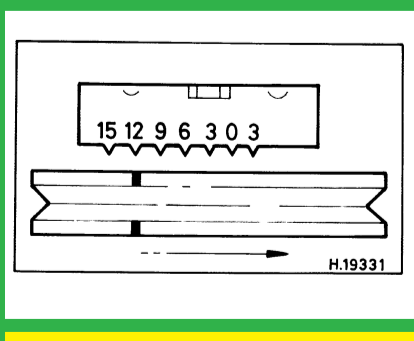
Notes and Illustrations



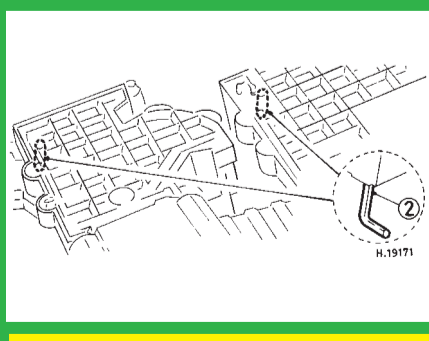
1: Idle speed 2: CO / Mixture



2936 cm³



2936 cm³



L-Jetronic