

Engine & Cooling

Fuel

Ignition

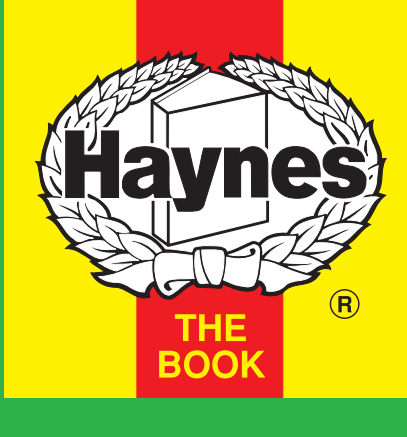
Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

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HELP

Engine and cooling systemVanette (C220)1992 to 1995

Type		A15S OHV 52kW
Capacity (cm ³) / number of cylinders		1488 / 4
Compression ratio / pressure	bar	9.0 / ≥9.8
Oil pressure	bar	[2.9]
Oil temperature	°C	—
Valve clearance - inlet	mm	0.35 H
Valve clearance - exhaust	mm	0.35 H
Firing order		1-3-4-2
No 1 cylinder position		TCE
Thermostat opening temperature	°C	82
Radiator cap pressure	bar	0.78 to 0.98

Fuel systemVanette (C220)1992 to 1995

Idle speed - manual [auto]	rpm	700±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	1.5±0.5
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		Hitachi
Type / ref		DCZ306-28
Main jet / needle		101, 130
Injection pressure	bar	—
Pump pressure	bar	0.20 to 0.27
Octane rating	RON	91[E 91 RON]

Ignition systemVanette (C220)1992 to 1995

Type		Electronic
Ignition coil		Hitachi, Hanshin
Primary resistance	ohms	1.28 to 1.65
Ballast resistor	ohms	1.6
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Hitachi/Mitsubishi
Points gap (air gap)	mm	0.45 to 0.55
Dwell angle	° (%)	49 to 55
Condenser capacity	µF	0.20 to 0.24
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	7±2 BTDC @ 700±50
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	0 @ 1100
	° Crankshaft @ rpm	23 @ 4800
	° Crankshaft @ rpm	—
Vacuum range check	mbar	140 to 467
Maximum vacuum advance	° Crankshaft	15
Spark plugs		NGK/Champion
Type		BPR5ES / RN9YC
Electrode gap	mm	0.80 to 0.90

Electrical systemVanette (C220)1992 to 1995

Battery	V / CC / RC	12 / 60Ah
Alternator voltage / full load current / engine rpm		14.3 to 15.3 / _ / 2500
Starter motor current / voltage - cranking	A / V	60 / 11.5 (no load)
- locked	A / V	—

Running gearVanette (C220)1992 to 1995

Brakes -		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	1.5

Tyres		
Saloon	Size	—
Estate / Van	Size	165x14: 195/70x14
Pressure - front / rear - Saloon	bar	—
- Estate / Van	bar	3.0 / 3.0

Front suspension / wheel alignment

Toe-in (+) / Toe-out (–)	mm [°]	+2.0 to 4.0
Camber		+25' to 1°25'
Castor		+2°15' to 3°15'
King pin inclination		—

Rear suspension / wheel alignment

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

Torque wrench settingsVanette (C220)1992 to 1995

Cylinder head - stage 1	Nm	69 to 74
- stage 2	Nm	—
Cylinder head - stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	31 to 37
Main bearings	Nm	49 to 59
Clutch cover	Nm	16 to 21
Flywheel [driveplate]	Nm	78 to 88
Front hubs	Nm	265 to 353
Rear hubs	Nm	—
Wheel nuts / bolts	Nm	98 to 118
Spark plugs	Nm	20 to 29

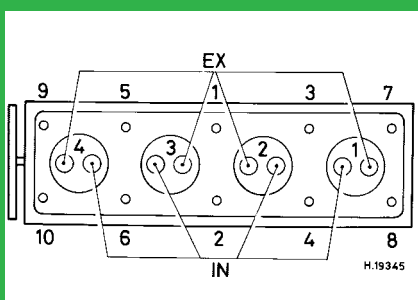
CapacitiesVanette (C220)1992 to 1995

Engine oil & filter	litres	3.2
Gearbox - 4-speed [5-speed]	litres	1.2
Automatic transmission - refill	litres	—
Final drive	litres	2.0
Cooling system	litres	5.4
Fuel tank	litres	50

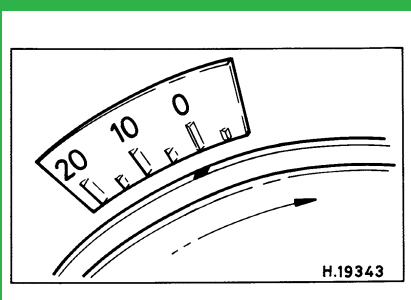
Notes and Illustrations



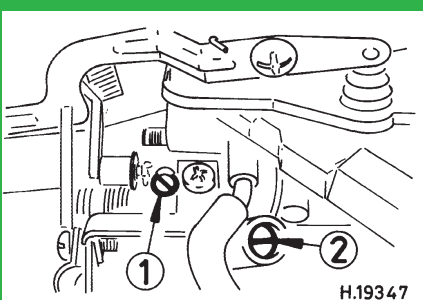
1: Idle speed 2: CO / Mixture



1488 cm³



1488 cm³



Hitachi DCZ