

Engine & Cooling

Fuel

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Automotive Technical
DATA BOOK

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Engine and cooling systemApplause 1.61989 to 1992

Type		HD-C SOHC 16V 67kW
Capacity (cm ³) / number of cylinders		1589 / 4
Compression ratio / pressure	bar	9.5 / ≥13.7
Oil pressure	bar	[2.4 to 4.8]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.25 H
Valve clearance - exhaust	mm	0.33 H
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	84 to 98
Radiator cap pressure	bar	0.88

Fuel systemApplause 1.61989 to 1992

Idle speed - manual [auto]	rpm	800±50 [850±50]
Fast idle speed - manual [auto]	rpm	1800
CO @ idle speed [3000 rpm] - see page VI	%	1.5±0.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤300
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		Aisan
Type / ref		2V downdraught 28-32
Main jet / needle		98, 185
Injection pressure	bar	—
Pump pressure	bar	0.2 to 0.3
Octane rating	RON	97[E 95 RON]

Ignition systemApplause 1.61989 to 1992

Type		Electronic
Ignition coil		Nippon Denso
Primary resistance	ohms	1.4 to 1.7
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Nippon Denso
Points gap (air gap)	mm	[0.20 to 0.40]
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	3±2 BTDC @ idle
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	0 to 1 @ 1400
	° Crankshaft @ rpm	12 @ 3000
	° Crankshaft @ rpm	30 @ 5400
Vacuum range check	mbar	159 to 532
Maximum vacuum advance	° Crankshaft	15
Spark plugs		NGK/Champion
Type		BKR6E-11 / RC9YC4
Electrode gap	mm	1.00 to 1.10

Electrical systemApplause 1.61989 to 1992

Battery	V / CC / RC	12 / 36Ah
Alternator voltage / full load current / engine rpm		14.2 to 14.8 / 50 / 3000
Starter motor current / voltage - cranking	A / V	50 / 10.0 to 11.0
- locked	A / V	—

Running gearApplause 1.61989 to 1992

Brakes -		
Front (min. friction material thickness)	mm	1.0
Rear (min. friction material thickness)	mm	1.0

Tyres		
Saloon	Size	175/70x13
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	1.8 / 1.8
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+1.0±1.0
Camber		+30’±30’
Castor		+2°55’±30’
King pin inclination		+12°±30’

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+5.0±2.0
Camber		-40’±35’

Torque wrench settingsApplause 1.61989 to 1992

Cylinder head - stage 1	Nm	59 to 67
- stage 2	Nm	—
Cylinder head - stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	34 to 44
Main bearings	Nm	45 to 55
Clutch cover	Nm	15 to 22
Flywheel [driveplate]	Nm	79 to 98
Front hubs	Nm	167 to 225
Rear hubs	Nm	0.9 to 3.0
Wheel nuts / bolts	Nm	88 to 118
Spark plugs	Nm	15 to 20

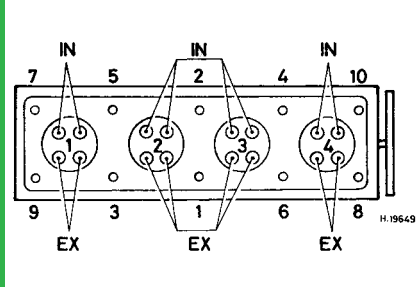
CapacitiesApplause 1.61989 to 1992

Engine oil & filter	litres	3.3
Gearbox - 4-speed [5-speed]	litres	2.1 to 2.3
Automatic transmission - refill	litres	—
Final drive	litres	WT
Cooling system	litres	5.2
Fuel tank	litres	50

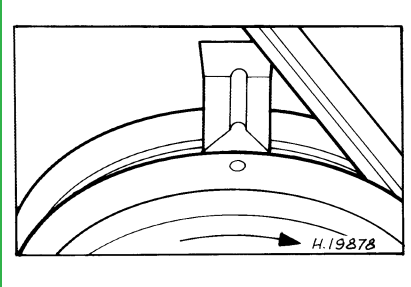
Notes and Illustrations



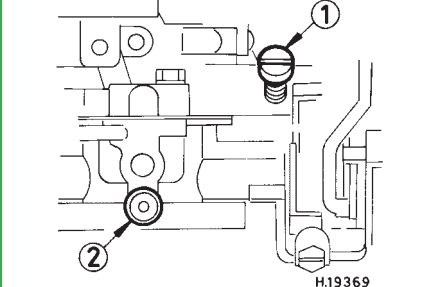
1: Idle speed 2: CO / Mixture



1589 cm³



1589 cm³



2V, 1589 cm³