

Engine & Cooling

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Automotive Technical
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Engine and cooling systemCharade 1.6i (G201)1993 to 1996

Type		HD-E SOHC 16V
Capacity (cm ³) / number of cylinders		1589 / 4
Compression ratio / pressure	bar	9.5 / 13.5
Oil pressure	bar	0.19
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	76 to 80
Radiator cap pressure	bar	0.70 to 1.4

Fuel systemCharade 1.6i (G201)1993 to 1996

Idle speed - manual [auto]	rpm	800±50
Fast idle speed - manual [auto]	rpm	N/A
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5 N/A
HC @ idle speed [3000 rpm] - see page VI	ppm	≤200
CO2 @ idle speed [3000 rpm] - see page VI	%	N/A
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		—Nippon Denso
Type / ref		MPi
Main jet / needle		—
Injection pressure	bar	2.2 to 2.6
Pump pressure	bar	—
Octane rating	RON	95[U]

Ignition systemCharade 1.6i (G201)1993 to 1996

Type		Electronic
Ignition coil		Nippon Denso
Primary resistance	ohms	1.35 to 1.65
Ballast resistor	ohms	N/A
Voltage - Tmnl 15(+) to earth	V	12
Distributor		Nippon Denso
Points gap (air gap)	mm	0.2 to 0.4
Dwell angle	° (%)	N/A
Condenser capacity	µF	N/A
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	0±2 BTDC
V = Vacuum NV = No Vacuum		—
Total ignition advance	° Crankshaft @ rpm	Computer control
	° 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		NGK/Nippon Denso/Champion
Type		BKR6E-11/K20PR-11/RC9YC4
Electrode gap	mm	1.0

Electrical systemCharade 1.6i (G201)1993 to 1996

Battery	V / CC / RC	12V 36AH
Alternator voltage / full load current / engine rpm		14/50
Starter motor current / voltage - cranking	A / V	50/11.5
- locked	A / V	N/A

Running gearCharade 1.6i (G201)1993 to 1996

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

Tyres		
Saloon	Size	175/60 x 14
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	1.8/1.8
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+ 1mm
Camber		0°20’
Castor		1°55’
King pin inclination		12°

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+ 4mm
Camber		-40’

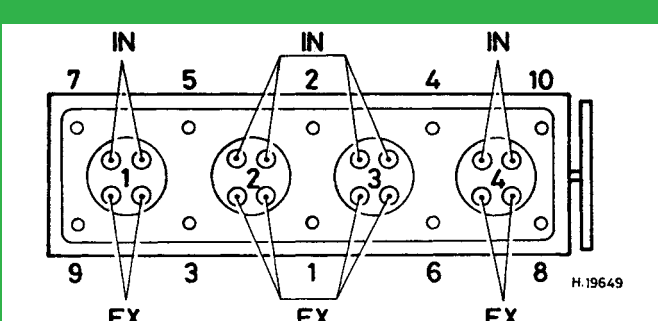
Torque wrench settingsCharade 1.6i (G201)1993 to 1996

Cylinder head - stage 1	Nm	20
- stage 2	Nm	40
Cylinder head - stage 3	Nm	66
- stage 4	Nm	—
Big-end bearings	Nm	34.3 to 44.1
Main bearings	Nm	44.1 to 53.9
Clutch cover	Nm	14.7 to 21.6
Flywheel [driveplate]	Nm	78.5 to 98
Front hubs	Nm	167 to 226
Rear hubs	Nm	60 to 89
Wheel nuts / bolts	Nm	89 to 118
Spark plugs	Nm	14.7 to 21.6

CapacitiesCharade 1.6i (G201)1993 to 1996

Engine oil & filter	litres	3.5
Gearbox - 4-speed [5-speed]	litres	[2.2]
Automatic transmission - refill	litres	—
Final drive	litres	WT
Cooling system	litres	4.7
Fuel tank	litres	50

Notes and Illustrations



1589 cm³