

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling systemHijet 4x41986 to 1990

Type		CB41
Capacity (cm³) / number of cylinders		993 / 3
Compression ratio / pressure	bar	9.1 / 12.3
Oil pressure	bar	[3.6±0.5]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.20 H
Valve clearance - exhaust	mm	0.20 H
Firing order		1-2-3
No 1 cylinder position		TBE
Thermostat opening temperature	°C	88
Radiator cap pressure	bar	0.9

Fuel systemHijet 4x41986 to 1990

Idle speed - manual [auto]	rpm	850±50
Fast idle speed - manual [auto]	rpm	2800 to 3200
CO @ idle speed [3000 rpm] - see page VI	%	1.5 to 3.0
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		Aisan
Type / ref		1V
Main jet / needle		127
Injection pressure	bar	—
Pump pressure	bar	0.30 to 0.70
Octane rating	RON	91[E 95 RON]

Ignition systemHijet 4x41986 to 1990

Type		Contact breaker - CIS
Ignition coil		—
Primary resistance	ohms	1.1 to 1.3
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Toyo Denso
Points gap (air gap)	mm	0.40 to 0.50
Dwell angle	° (%)	58 to 66
Condenser capacity	µF	0.27
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	5±2 BTDC @ idle
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	2 @ 1600
	° Crankshaft @ rpm	10 to 14 @ 3000
	° Crankshaft @ rpm	31 @ 5600
Vacuum range check	mbar	105 to 532
Maximum vacuum advance	° Crankshaft	30
Spark plugs		NGK/Champion
Type		BPR5EY / RN12YC
Electrode gap	mm	0.70 to 0.80

Electrical systemHijet 4x41986 to 1990

Battery	V / CC / RC	12 / 28Ah
Alternator voltage / full load current / engine rpm		14.2 to 14.8 / _ / 3000
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gearHijet 4x41986 to 1990

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

Tyres		
Saloon	Size	—
Estate / Van	Size	145x12
Pressure - front / rear - Saloon	bar	—
- Estate / Van	bar	WSM

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+5.0±4.0
Camber		+1°±1°30'
Castor		+3°18'±30'
King pin inclination		+11°24'±1°30'

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

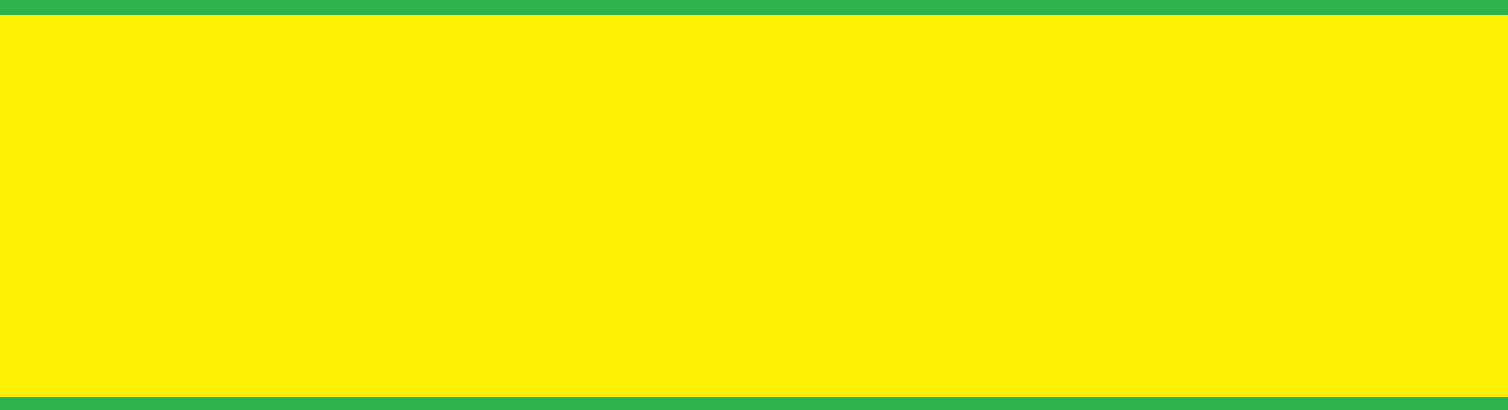
Torque wrench settingsHijet 4x41986 to 1990

Cylinder head - stage 1	Nm	54 to 64
- stage 2	Nm	—
Cylinder head - stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	20 to 28
Main bearings	Nm	53 to 65
Clutch cover	Nm	7 to 10
Flywheel [driveplate]	Nm	39 to 49
Front hubs	Nm	WSM
Rear hubs	Nm	—
Wheel nuts / bolts	Nm	34 to 54
Spark plugs	Nm	15 to 21

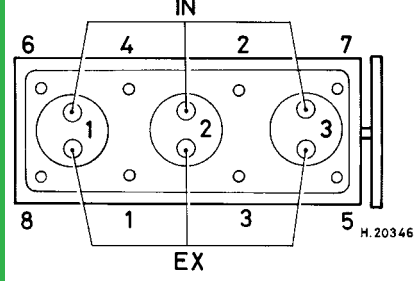
CapacitiesHijet 4x41986 to 1990

Engine oil & filter	litres	2.9
Gearbox - 4-speed [5-speed]	litres	1.1
Automatic transmission - refill	litres	—
Final drive	litres	0.6
Cooling system	litres	4.8
Fuel tank	litres	36

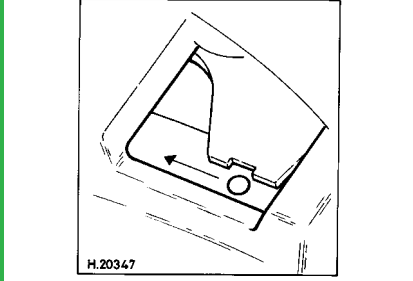
Notes and Illustrations



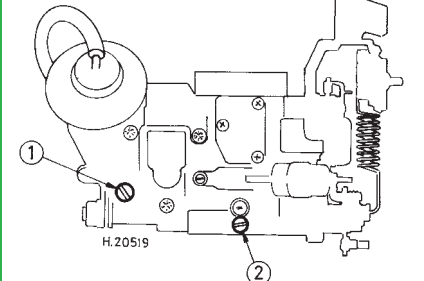
1: Idle speed 2: CO / Mixture



993 cm³



993 cm³



1V, 993 cm³