

Engine & Cooling

Fuel

Ignition

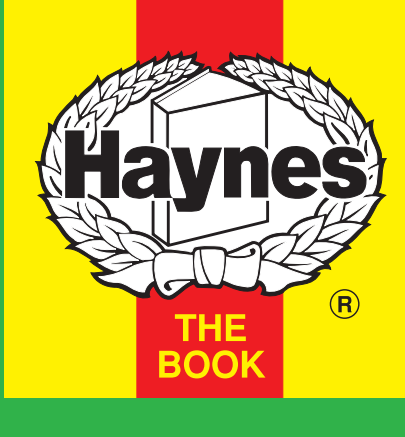
Electrical

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Automotive Technical
DATA BOOK

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Engine and cooling system

Panda 1.0ie & 4x4 CAT

1991 to 1996

Type		156 A2.246 OHC 33kW US83
Capacity (cm ³) / number of cylinders		999 / 4
Compression ratio / pressure	bar	9.0 / _
Oil pressure	bar	[2.9 to 3.9]
Oil temperature	°C	100
Valve clearance - inlet	mm	0.30±0.05
Valve clearance - exhaust	mm	0.40±0.05
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	85 to 89
Radiator cap pressure	bar	0.98

Fuel system

Panda 1.0ie & 4x4 CAT

1991 to 1996

Idle speed - manual [auto]	rpm	800 to 900
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	_
HC @ idle speed [3000 rpm] - see page VI	ppm	_
CO2 @ idle speed [3000 rpm] - see page VI	%	_
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Bosch
Type / ref		Mono-Jetronic SPI / Weber SPI
Main jet / needle		_
Injection pressure	bar	_
Pump pressure	bar	_
Octane rating	RON	95[U]

Ignition system

Panda 1.0ie & 4x4 CAT

1991 to 1996

Type		Electronic
Ignition coil		Marelli BAE 506D
Primary resistance	ohms	2.6 to 3.4
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Marelli
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	2±2 BTDC @ 800 to 900
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	15±2 BTDC @ 800 to 900
	° 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		Champion
Type		RC9YCC
Electrode gap	mm	0.85 to 0.95

Electrical system

Panda 1.0ie & 4x4 CAT

1991 to 1996

Battery	V / CC / RC	12 / 175 / 60 (40Ah)
Alternator voltage / full load current / engine rpm		14.0 to 14.3 / 55 / 3500
Starter motor current / voltage - cranking	A / V	175 / 9.2
- locked	A / V	350 / 6.7

Running gear

Panda 1.0ie & 4x4 CAT

1991 to 1996

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

Tyres		
Saloon	Size	135x13: 145x13: 155/65x13
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	1.8 / 2.0 ¹
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	-2.0±2.0 ²
Camber		+1°±30'. 4x4: +1°52'±30'
Castor		+2°30'±30'
King pin inclination		_

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	0
Camber		0

Torque wrench settings

Panda 1.0ie & 4x4 CAT

1991 to 1996

Cylinder head - stage 1	Nm	30
- stage 2	Nm	+ 90°
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	_
Big-end bearings	Nm	41
Main bearings	Nm	40 + 90°
Clutch cover	Nm	16
Flywheel [driveplate]	Nm	44
Front hubs	Nm	220
Rear hubs	Nm	70
Wheel nuts / bolts	Nm	90
Spark plugs	Nm	25 to 30

Capacities

Panda 1.0ie & 4x4 CAT

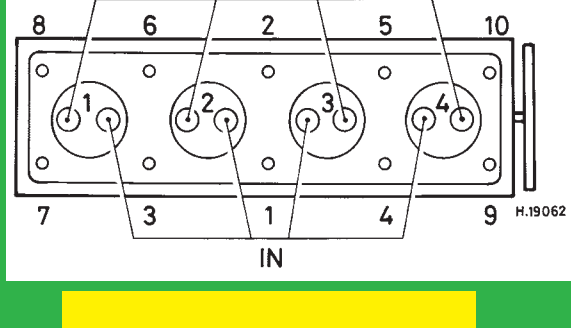
1991 to 1996

Engine oil & filter	litres	3.8
Gearbox - 4-speed [5-speed]	litres	2.4
Automatic transmission - refill	litres	1.8
Final drive	litres	WT
Cooling system	litres	5.2
Fuel tank	litres	40. 4x4: 35

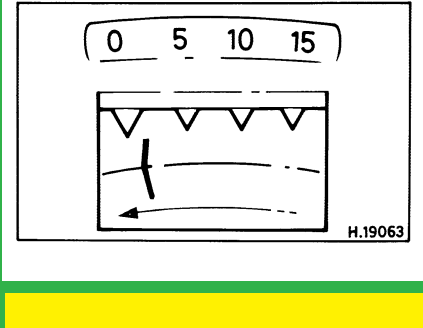
Notes and Illustrations

¹4x4: 2.0 / 2.0

²4x4: -4.0±2.0



999 cm³



999 cm³