Haynes THE BOOK ®

Automotive Technical DATA BOOK

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MENU HELP

Engine and cooling system — Panda 1000 4x4 — 1988 to 1992

Type		156 A3.000 (FIRE) OHC 37kW
Capacity (cm³) / number of cylinders		999 / 4
Compression ratio / pressure	bar	9.8±0.2 / _
Oil pressure	bar	[2.9 to 3.9]
Oil temperature	ºC	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	ºC	85 to 89
Radiator cap pressure	bar	0.98

Fuel system — Panda 1000 4x4 — 1988 to 1992

Idle speed - manual [auto]	rpm	750 to 800
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		Weber
Type / ref		32 TLF 8/251
Main jet / needle		105
Injection pressure	bar	_
Pump pressure	bar	≥0.20
Octane rating	RON	97[E 95 RON]¹

Ignition system — Panda 1000 4x4 — 1988 to 1992

Type		Electronic
Ignition coil		Marelli BAE 506A
Primary resistance	ohms	0.76 to 0.92
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Marelli
Points gap (air gap)	mm	[0.30 to 0.40]
Dwell angle	º (%)	_
Condenser capacity	µF	_
Rotation		Clockwise
Ignition timing - basic [static	º Crankshaft @ rpm	15±1 BTDC @ idle
V = Vacuum NV = No Vacuum		V
Total ignition advance	º Crankshaft @ rpm	_
	º Crankshaft @ rpm	_
	º Crankshaft @ rpm	_
Centrifugal check.	º Crankshaft @ rpm	0 @ 800 to 1200
	º Crankshaft @ rpm	17 to 21 @ 3000
	º Crankshaft @ rpm	26 to 30 @ 4300
Vacuum range check	mbar	133 to 307
Maximum vacuum advance	º Crankshaft	12 to 14
Spark plugs		Bosch/Champion
Type		FR7DC / RC9YC
Electrode gap	mm	0.70 to 0.80

Electrical system — Panda 1000 4x4 — 1988 to 1992

Battery	V / CC / RC	12 / 175 / 60 (30Ah)
Alternator voltage / full load current / engine rpm		14.0 to 14.3 / 45 / 3500
Starter motor current / voltage - cranking	A / V	180 / 9.1
- locked	A / V	320 / 7

Running gear — Panda 1000 4x4 — 1988 to 1992

Brakes -		
Front (min. friction material thickness)	mm	1.5
Rear (min. friction material thickness)	mm	1.5
Tyres		
Saloon	Size	145x13
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.0 / 2.0
- Estate / Van	bar	_
Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [º]	-4.0±2.0
Camber		+2°20'±30'
Castor		+3°30'±30'
King pin inclination		_
Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [º]	_
Camber		_

Torque wrench settings — Panda 1000 4x4 — 1988 to 1992

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	216
Rear hubs	Nm	216
Wheel nuts / bolts	Nm	86
Spark plugs	Nm	25 to 30

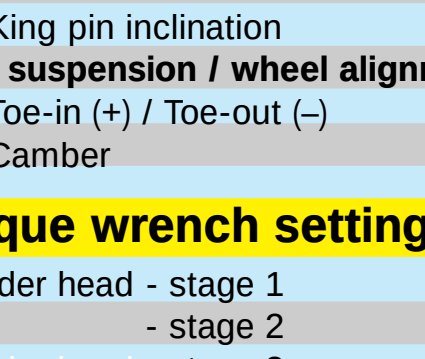
Capacities — Panda 1000 4x4 — 1988 to 1992

Engine oil & filter	litres	3.88
Gearbox - 4-speed [5-speed]	litres	2.4
Automatic transmission - refill	litres	_
Final drive	litres	Rear: 1.2
Cooling system	litres	5.2
Fuel tank	litres	35

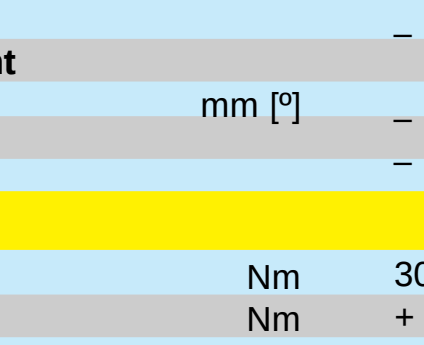
Notes and Illustrations

[1]**Chassis 04112054 ▶, except 05******

1: Idle speed 2: CO / Mixture



999 cm³



999 cm³

Weber TLF