

LANCIA

Thema 8.32 & CAT

1988 to 1992

Engine & Cooling

Fuel

Ignition

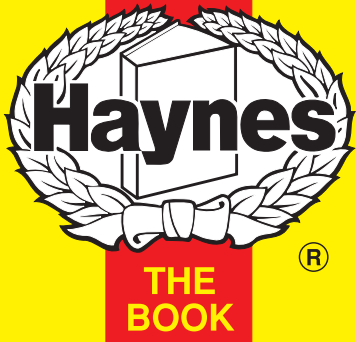
Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

Click on one of the buttons above to view data for this car. To return to this screen and make another choice, click anywhere on the data screen.

MENU

HELP

Engine and cooling system

Thema 8.32 & CAT

1988 to 1992

Type		F105L.000/CAT 046 158kW
Capacity (cm ³) / number of cylinders		2927 / 8
Compression ratio / pressure	bar	10.5 / _
Oil pressure	bar	3.7 [6.9]
Oil temperature	°C	100
Valve clearance - inlet	mm	0.20 to 0.25
Valve clearance - exhaust	mm	0.35 to 0.40
Firing order		1-8-4-2-7-3-6-5
No 1 cylinder position		PER
Thermostat opening temperature	°C	80 to 84
Radiator cap pressure	bar	0.98

Fuel system

Thema 8.32 & CAT

1988 to 1992

Idle speed - manual [auto]	rpm	920
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		KE3-Jetronic
Main jet / needle		_
Injection pressure	bar	3.7 to 4.8
Pump pressure	bar	6.2 to 6.5
Octane rating	RON	98[E 95 RON] ¹

Ignition system

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Type		Microplex
Ignition coil		Marelli BAE 504CK
Primary resistance	ohms	0.40 to 0.49
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Marelli
Points gap (air gap)	mm	[0.4 to 1.0]
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		_
Ignition timing - basic [static	° Crankshaft @ rpm	12±1.5 BTDC @ 920
V = Vacuum NV = No Vacuum		
Total ignition advance	° Crankshaft @ rpm	45±1.5 BTDC @ 3000
	° 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		Bosch/Champion
Type		X4CS / A6YC ²
Electrode gap	mm	0.60 to 0.70

Electrical system

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Battery	V / CC / RC	12 / 300 / 60Ah
Alternator voltage / full load current / engine rpm		14.0 to 14.3 / 85, 120 / 3500
Starter motor current / voltage - cranking	A / V	480 / 8.8
- locked	A / V	1000 / 5.5

Running gear

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

Tyres		
Saloon	Size	205/55x15
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.3 / 2.3
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	-1.0 to +1.0
Camber		-40' to 0 N/A
Castor		+2°30' to 3°10' N/A
King pin inclination		_

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+2.0 to 5.0
Camber		-40' to 0 N/A

Torque wrench settings

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Cylinder head - stage 1	Nm	45 oiled
- stage 2	Nm	+ 40°
Cylinder head - stage 3	Nm	+ 40°
- stage 4	Nm	+ 40°
Big-end bearings	Nm	65
Main bearings	Nm	88
Clutch cover	Nm	_
Flywheel [driveplate]	Nm	83
Front hubs	Nm	450
Rear hubs	Nm	320
Wheel nuts / bolts	Nm	88
Spark plugs	Nm	16

Capacities

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Engine oil & filter	litres	7.7
Gearbox - 4-speed [5-speed]	litres	1.7
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	9.8
Fuel tank	litres	70

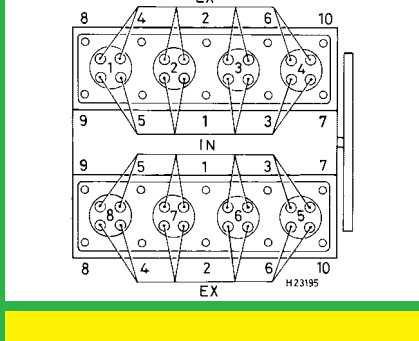
Notes and Illustrations

¹CAT: 95 [U]

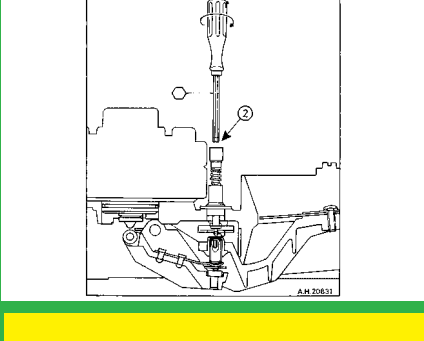
²Engine no. 21 179 ►: Champion RA4HC

1: Idle speed

2: CO / Mixture



2927 cm³



KE3-Jetronic