

LANCIA

Thema Turbo ie 16V

1989 to 1993

Engine & Cooling

Fuel

Ignition

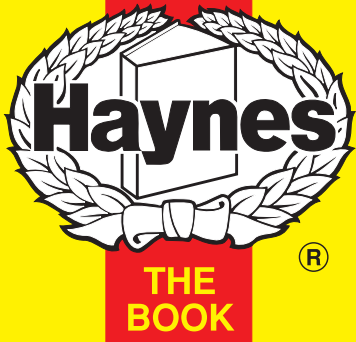
Electrical

Running gear

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Automotive Technical
DATA BOOK

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Engine and cooling system

Thema Turbo ie 16V

1989 to 1993

Type		834 C1.000 DOHC 16V 133kW
Capacity (cm ³) / number of cylinders		1995 / 4
Compression ratio / pressure	bar	8.0±0.15 / _
Oil pressure	bar	[3.4 to 4.9]
Oil temperature	°C	100
Valve clearance - inlet	mm	0.35±0.04
Valve clearance - exhaust	mm	0.40±0.04
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	81 to 85
Radiator cap pressure	bar	0.98

Fuel system

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1989 to 1993

Idle speed - manual [auto]	rpm	850±50
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	1.25±0.5
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		Bosch
Type / ref		LE2-Jetronic + Garrett T3
Main jet / needle		_
Injection pressure	bar	3.0±0.2
Pump pressure	bar	≤6.0
Octane rating	RON	98[E 95 RON]

Ignition system

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Type		Microplex ¹
Ignition coil		Marelli BAE 800AK Dual
Primary resistance	ohms	0.50 to 0.61
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Marelli
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	3±1.5 BTDC @ 0 to 2000
V = Vacuum NV = No Vacuum		
Total ignition advance	° Crankshaft @ rpm	41±1.5 BTDC @ 3000 to 3500
	° 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		WR6DTC / RN7YC
Electrode gap	mm	0.80 to 1.00

Electrical system

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Battery	V / CC / RC	12 / 320 / 60Ah
Alternator voltage / full load current / engine rpm		14.0 to 14.6 / 65,90,115/ 3500
Starter motor current / voltage - cranking	A / V	360 to 380 / 8.2
- locked	A / V	680 to 700 / 4.9

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	195/60x15
Estate / Van	Size	195/60x15
Pressure - front / rear - Saloon	bar	2.2 / 2.2
- Estate / Van	bar	2.3 / 2.4

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/A²
King pin inclination		_

Rear suspension / wheel alignment

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

Torque wrench settings

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Cylinder head - stage 1	Nm	20
- stage 2	Nm	40
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	+ 90°
Big-end bearings	Nm	25 + 50°
Main bearings	Nm	20³
Clutch cover	Nm	20
Flywheel [driveplate]	Nm	142
Front hubs	Nm	450⁴
Rear hubs	Nm	320
Wheel nuts / bolts	Nm	98
Spark plugs	Nm	25 to 30

Capacities

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Engine oil & filter	litres	5.5
Gearbox - 4-speed [5-speed]	litres	2.3
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	8.2
Fuel tank	litres	70

Notes and Illustrations

¹MED 601E

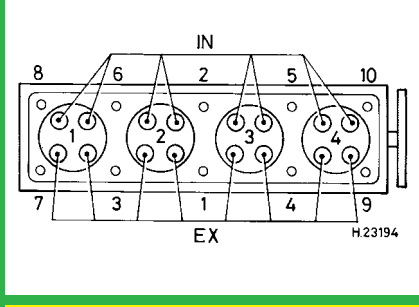
²With variable ratio steering: +1° to 1°40'

³Centre bearing: + 130°, others: + 90°

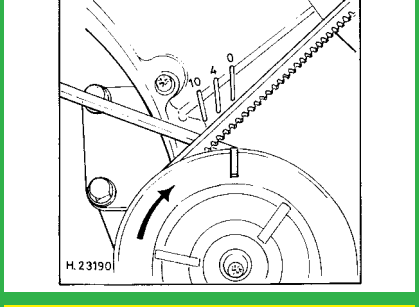
⁴Nuts with integral washers: 360

1: Idle speed

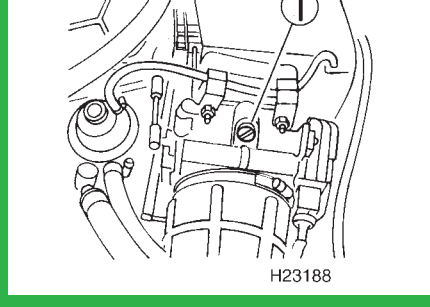
2: CO / Mixture



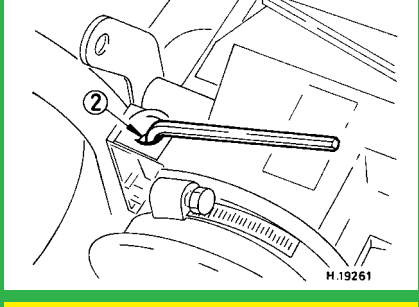
1995 cm³, 16V



1995 cm³, 16V



LE2-Jetronic



LE2-Jetronic