

Engine & CoolingFuelIgnitionElectricalRunning gearTorque settingsCapacitiesNotes & Illustrations



Automotive Technical
DATA BOOK

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MENUHELP

Engine and cooling system

Tipo 1.6ie1994 to 1996

Type	835 C1.000 SOHC 55kW	
Capacity (cm³) / number of cylinders	1581 / 4	
Compression ratio / pressure	bar	9.3
Oil pressure	bar	≥1.5 [4.6]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.40±0.05
Valve clearance - exhaust	mm	0.50±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

Tipo 1.6ie1994 to 1996

Idle speed - manual [auto]	rpm	850±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	≤0.35
HC @ idle speed [3000 rpm] - see page VI	ppm	≤90
CO2 @ idle speed [3000 rpm] - see page VI	%	≥13.0
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection	_ Bosch	
Type / ref	MA1.7 Monomotronic SPI	
Main jet / needle	—	
Injection pressure	bar	—
Pump pressure	bar	—
Octane rating	RON	95[U]

Ignition system

Tipo 1.6ie1994 to 1996

Type	Motronic	
Ignition coil	Bosch 0.221.503.407	
Primary resistance	ohms	0.45 to 0.55
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor	—	
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation	—	
Ignition timing - basic [static	° Crankshaft @ rpm	6±2 BTDC @ 850±50
V = Vacuum NV = No Vacuum	—	
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Vacuum range check	mbar	—
Maximum vacuum advance	° Crankshaft	—
Spark plugs	Fiat/Champion	
Type	7GYSSR / RC7YCC	
Electrode gap	mm	0.85 to 0.95

Electrical system

Tipo 1.6ie1994 to 1996

Battery	V / CC / RC	12 / 225 / 55Ah
Alternator voltage / full load current / engine rpm	14.0 to 14.3 / 65A	
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gear

Tipo 1.6ie1994 to 1996

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

Tyres		
Saloon	Size	165/65x14
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.0 / 1.9
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	0.0±1.0
Camber	-20' to +40'	
Castor	2°20'±30'	
King pin inclination	—	

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	-3.0 to +1.0
Camber	-1°30'	

Torque wrench settings

Tipo 1.6ie1994 to 1996

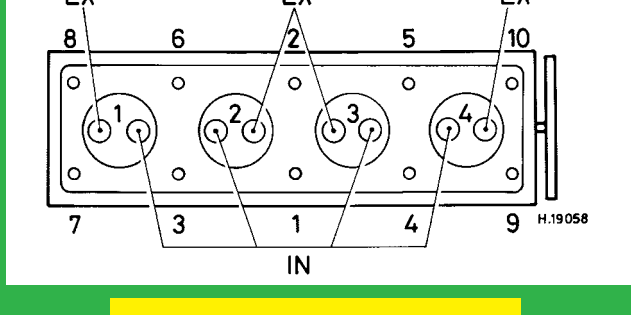
Cylinder head - stage 1	Nm	40
- stage 2	Nm	+90°
Cylinder head - stage 3	Nm	+90°
- stage 4	Nm	—
Big-end bearings	Nm	51
Main bearings	Nm	80
Clutch cover	Nm	38
Flywheel [driveplate]	Nm	83
Front hubs	Nm	235
Rear hubs	Nm	284
Wheel nuts / bolts	Nm	86
Spark plugs	Nm	37

Capacities

Tipo 1.6ie1994 to 1996

Engine oil & filter	litres	3.7
Gearbox - 4-speed [5-speed]	litres	2.0
Automatic transmission - refill	litres	—
Final drive	litres	WT
Cooling system	litres	6.5
Fuel tank	litres	51

Notes and Illustrations



1581 cm³