

Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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## Automotive Technical DATA BOOK

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HELP

### Engine and cooling system Alfa Sprint 1.7 1988 to 1989

Type		SOHC
Capacity (cm <sup>3</sup> ) / number of cylinders		1712 / 4
Compression ratio / pressure	bar	9.5 / 10.3
Oil pressure	bar	1.2 to 2.8
Oil temperature	°C	90
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order		1-3-2-4
No 1 cylinder position		FR
Thermostat opening temperature	°C	84 to 88
Radiator cap pressure	bar	0.69

### Fuel system Alfa Sprint 1.7 1988 to 1989

Idle speed - manual [auto]	rpm	850 to 1000
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	—
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO <sub>2</sub> @ idle speed [3000 rpm] - see page VI	%	—
O <sub>2</sub> @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		Weber/Dellorto
Type / ref		W: 40IDF. D: 2x36DRLA
Main jet / needle		140, 140
Injection pressure	bar	—
Pump pressure	bar	0.18 to 0.30
Octane rating	RON	98[E 95 RON]

### Ignition system Alfa Sprint 1.7 1988 to 1989

Type		Electronic
Ignition coil		Bosch. Marelli
Primary resistance	ohms	0.7 to 1.0
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Bosch/Marelli
Points gap (air gap)	mm	[0.40 to 0.50]
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	8±1 BTDC @ 900 (1st mark)
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	36±1 BTDC @ 4500 (2nd mark)
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	0 @ 500 to 600
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	28 @ 3500 to 3600
Vacuum range check	mbar	200 to 373
Maximum vacuum advance	° Crankshaft	15
Spark plugs		Lodge/Champion
Type		25HL / N6YCC
Electrode gap	mm	Champion: 0.80

### Electrical system Alfa Sprint 1.7 1988 to 1989

Battery	V / CC / RC	12 / 45Ah
Alternator voltage / full load current / engine rpm		13.8 to 14.4 / _ / 4000
Starter motor current / voltage - cranking	A / V	200 to 230 / 9.8 to 10.0
- locked	A / V	380 to 400 / 8.0

### Running gear Alfa Sprint 1.7 1988 to 1989

<b>Brakes -</b>		
Front (min. friction material thickness)	mm	7.0 with backing
Rear (min. friction material thickness)	mm	7.0 with backing

<b>Tyres</b>		
Saloon	Size	185/60x14
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	1.8 / 1.6
- Estate / Van	bar	—

<b>Front suspension / wheel alignment</b>		
Toe-in (+) / Toe-out (-)	mm [°]	-4.0±2.0
Camber		-2°12'±30'
Castor		+1°±30'
King pin inclination		—

<b>Rear suspension / wheel alignment</b>		
Toe-in (+) / Toe-out (-)	mm [°]	0±2.5
Camber		0±25'

### Torque wrench settings Alfa Sprint 1.7 1988 to 1989

Cylinder head - stage 1	Nm	29 oiled
- stage 2	Nm	58
Cylinder head - stage 3	Nm	81 to 87
- stage 4	Nm	No.7: 20 to 24
Big-end bearings	Nm	43 to 48
Main bearings	Nm	66 to 73 oiled
Clutch cover	Nm	15 to 23
Flywheel [driveplate]	Nm	94 to 105 oiled
Front hubs	Nm	WSM
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	64 to 78
Spark plugs	Nm	28

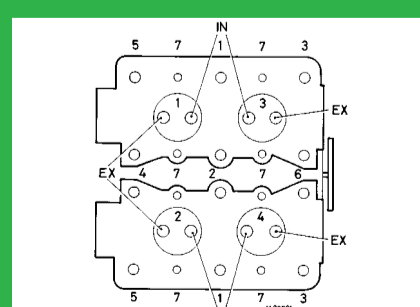
### Capacities Alfa Sprint 1.7 1988 to 1989

Engine oil & filter	litres	4.0
Gearbox - 4-speed [5-speed]	litres	3.4
Automatic transmission - refill	litres	—
Final drive	litres	WT
Cooling system	litres	7.3
Fuel tank	litres	50

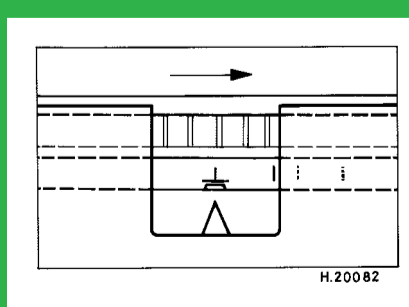
### Notes and Illustrations



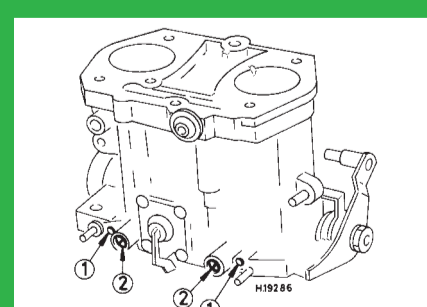
1: Idle speed 2: CO / Mixture



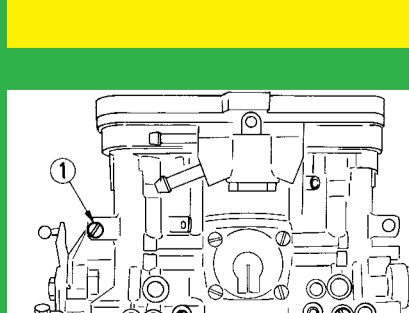
1712 cm<sup>3</sup>, 8V



1712 cm<sup>3</sup> 8V



Dellorto 36 DRLA



Weber 40 IDF