

Engine & CoolingFuelIgnitionElectricalRunning gearTorque settingsCapacitiesNotes & Illustrations



Automotive Technical
DATA BOOK

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Engine and cooling system

Strada 601985 to 1988

Type		146 A4.000 or 146 A4.048
Capacity (cm ³) / number of cylinders		1116 / 4
Compression ratio / pressure	bar	9.2 / _
Oil pressure	bar	[3.4 to 4.9]
Oil temperature	°C	100
Valve clearance - inlet	mm	0.40
Valve clearance - exhaust	mm	0.50
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	83 to 87
Radiator cap pressure	bar	0.98

Fuel system

Strada 601985 to 1988

Idle speed - manual [auto]	rpm	850±50
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	1.0±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		Solex/Weber
Type / ref		S: C30-32 CIC9. W: 30-32DMTE
Main jet / needle		S: 101, 97. W: 91, 102
Injection pressure	bar	_
Pump pressure	bar	0.18
Octane rating	RON	98[L]

Ignition system

Strada 601985 to 1988

Type		Contact breaker - CIS
Ignition coil		Various
Primary resistance	ohms	2.6 to 3.4 (typical)
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Marelli/Ducellier
Points gap (air gap)	mm	0.40±0.03
Dwell angle	° (%)	55±3
Condenser capacity	µF	0.20 to 0.25
Rotation		_
Ignition timing - basic [static	° Crankshaft @ rpm	10 BTDC @ idle
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	0 @ 400 to 1200
	° Crankshaft @ rpm	12 to 14 @ 3000
	° Crankshaft @ rpm	22 to 26 @ 4400
Vacuum range check	mbar	133 to 333
Maximum vacuum advance	° Crankshaft	10 to 14
Spark plugs		Bosch/Champion
Type		WR7DC / RN9YC
Electrode gap	mm	0.70 to 0.80

Electrical system

Strada 601985 to 1988

Battery	V / CC / RC	12 / 175 / 60
Alternator voltage / full load current / engine rpm		14.0 to 14.3 / _ / 3000
Starter motor current / voltage - cranking	A / V	170 / 9.4 to 10.3
- locked	A / V	310 / 7.5

Running gear

Strada 601985 to 1988

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

Tyres		
Saloon	Size	145x13: 165/70x13
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	1.9 / 1.8
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	-1.0 to +1.0
Camber		+1°30' to 2°30'
Castor		+50' to 1°50'
King pin inclination		_

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	0 to +4.0
Camber		+30' to -30'

Torque wrench settings

Strada 601985 to 1988

Cylinder head - stage 1	Nm	20
- stage 2	Nm	40
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	+ 90°
Big-end bearings	Nm	51
Main bearings	Nm	80
Clutch cover	Nm	16
Flywheel [driveplate]	Nm	83
Front hubs	Nm	216
Rear hubs	Nm	216
Wheel nuts / bolts	Nm	86
Spark plugs	Nm	25 to 30

Capacities

Strada 601985 to 1988

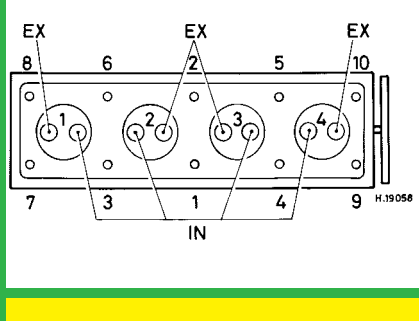
Engine oil & filter	litres	4.1
Gearbox - 4-speed [5-speed]	litres	3.0 [3.3]
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	6.7
Fuel tank	litres	55

Notes and Illustrations

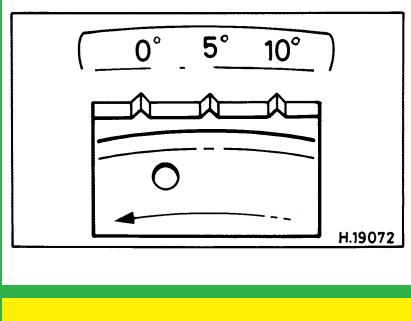


1: Idle speed

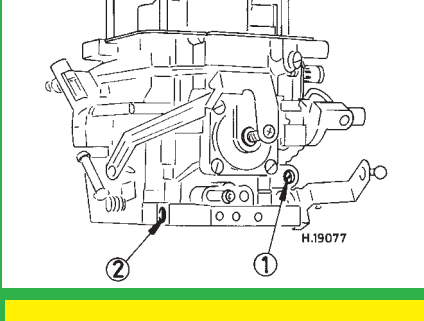
2: CO / Mixture



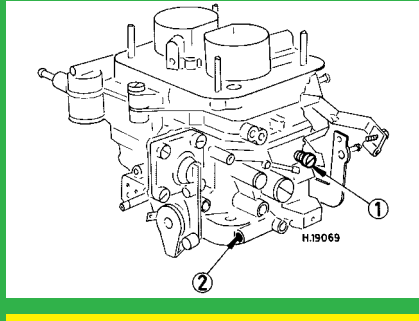
1116 cm³



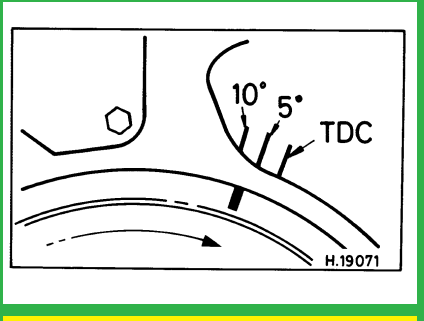
1116 cm³



Solex CIC



Weber DMTE



1116 cm³, alternative